

**BACKGROUND REPORT
PURSUANT TO BILL 175**

COST RECOVERY PLAN

Township of Springwater

HEMSON Consulting Ltd.

July 2006

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I INTRODUCTION

In response to *Bill 175 – The Sustainable Water and Sewage Systems Act* (henceforth, the *Act*), the Township of Springwater has initiated a Water and Wastewater Systems Cost Recovery Plan. The Plan will facilitate future compliance with the legislation, once the regulations governing the *Act* are in place. *Bill 175* will require all municipalities to prepare a Full Cost of Services Report, identifying the full cost of providing municipal water and wastewater services within their jurisdiction. The full cost of services includes:

“the source protection costs, operating costs, financing costs, renewal and replacement costs and improvement costs” – *Sustainable Water and Sewer Systems Act, 2002, S.O. 2002, c.29, s.3 (7)*

Bill 175 will also require municipalities to develop a Cost Recovery Plan. This Plan will be the basis of a strategy to ensure that water and wastewater services are fully funded.

The purpose of this study is to develop a Full Cost Recovery Plan for Springwater which is consistent with the future requirements of the *Act* and which establishes a strategy for fully funding water and wastewater services in the Township. The Plan includes provisions for financing the ongoing rehabilitation and eventual replacement of the Township’s extensive inventory of water and wastewater related infrastructure.

This study was conducted by Hemson Consulting Ltd. based on the findings from UMA Engineering’s Water and Wastewater Needs Study. UMA Engineering had prepared the Full Cost of Services Report, which included a database of the Township’s water and wastewater system inventory.

II STUDY OBJECTIVES & APPROACH

A. STUDY OBJECTIVE

A financial model was developed to assist the Township in completing a number of tasks. Its primary objective is to assist in finalizing the required Cost Recovery Plan report, in compliance with Bill 175 upon the release of the governing regulations. Until the regulations governing Bill 175 are released, what will be required of the Township can only be speculated. With this in mind, the model was developed with as much flexibility as possible. As a result of this flexibility, the model serves a secondary purpose, as a dynamic rate setting tool. Using the model, the Township is able to perform sensitivity analyses of water and wastewater rates, rate structure and also phase-in options.

B. STUDY APPROACH

The first step in a Cost Recovery Plan of this kind is to undertake a comprehensive analysis of the Township's current water and wastewater rates, reserves, infrastructure inventory and annual operating budgets. A database of the Township's water and wastewater infrastructure inventory will be compiled. Growth forecasts for Springwater and projected water and wastewater servicing requirements are also examined at this stage in the study process. Based on this analysis, the financial position of the Township's water and wastewater system is determined.

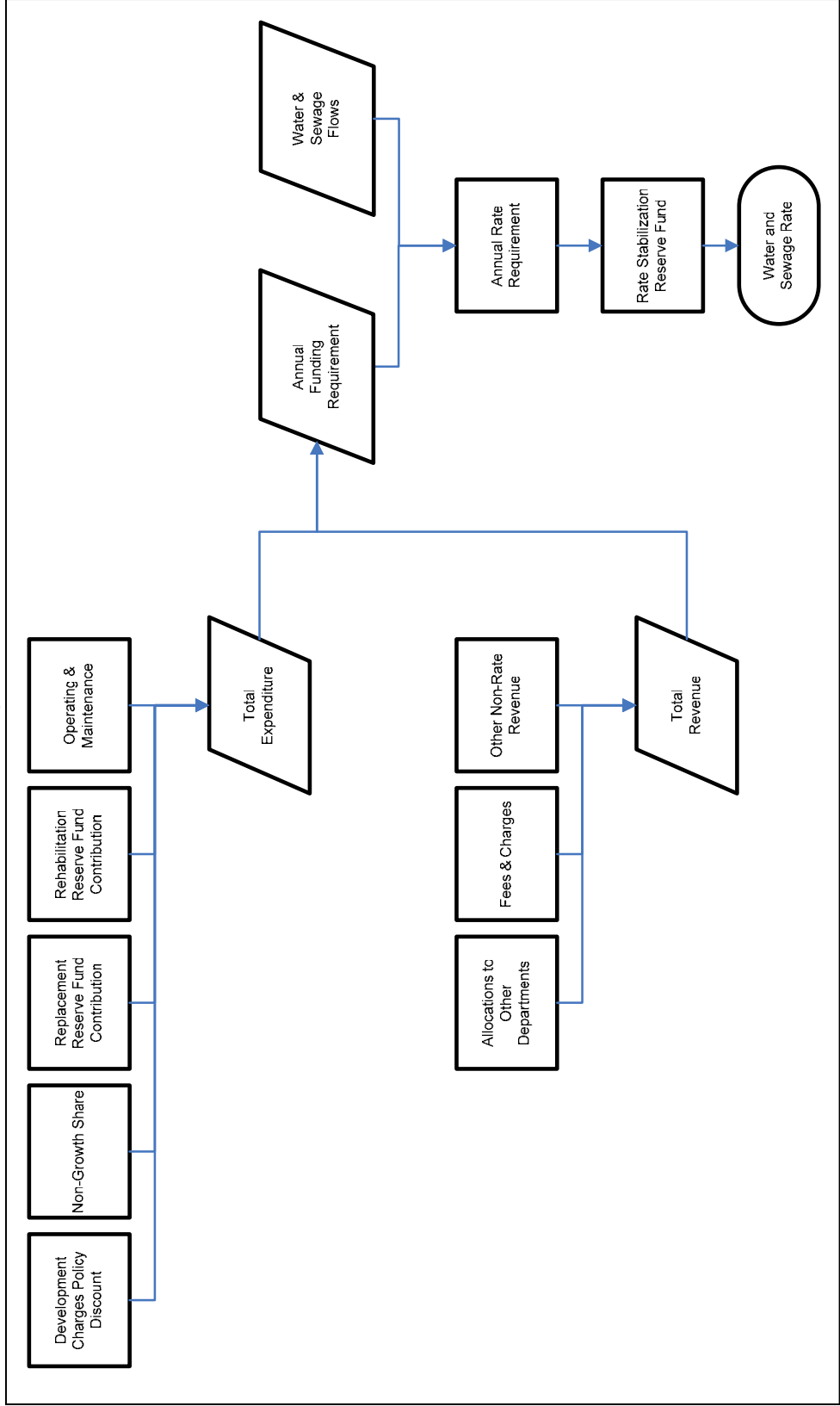
The second step in the study process is to compare the Township's current financial position with the fiscal requirements of the Act. A strategy for the Township to achieve full cost recovery for its water and wastewater services can then be developed.

The third step in the process is to evaluate the impacts of implementing the full cost recovery rates to the residents and businesses of the Township. A financial computer model was developed to assist with this task. The model calculates future capital expenditure requirements and projects future operating and maintenance costs. It also calculates the water and wastewater rates necessary to recover the full costs of the Township's water and wastewater systems up to 2025.

The structure and elements of the Cost Recovery Plan are illustrated in Figure 1.

Figure 1

Cost Recovery Model



III GROWTH & DEMAND FORECAST

Future costs of the Township’s water and wastewater systems will largely be driven by demands placed on the system by water consumers. A forecast of future consumption demands must therefore be developed. Growth in Springwater will lead to an increased demand for water and considerable growth is anticipated in the Township over the next 20 years. The growth forecast used in this study was based on the Township’s most recent Development Charges Background completed in 2004.

A. FORECAST GROWTH

The Township’s current population of about 17,400 capita is expected to increase to about 23,400 capita by 2025. It is assumed 90% of projected residential growth will be serviced by municipal systems. An estimated 30% of new residential units will be water and wastewater serviced, and 60% of new residential units will only receive municipal water service. Non-residential growth is forecast to be about 1% per annum.

B. WATER DEMAND

Existing residential users in the Township receiving municipal water service, consume an average of about 0.3 cubic metres of water per capita per day. The finance model assumes new users to the system will continue to maintain this level of consumption. Residential users consumed a total of 791,300 cubic metres of water in 2005. The total water to be consumed by residential users in 2006 is forecast to be about 816,800 cubic metres. The following table illustrates the historical consumption patterns of the Township’s residential users by levels of monthly consumption.

Residential Water Consumption Pattern		
Level of Consumption	% of Users	% of Consumption
0 - 15 cubic metres / month	26.4%	54.7%
16 - 30 cubic metres / month	47.2%	29.9%
31 - 45 cubic metres / month	17.5%	10.0%
45+ cubic metres / month	8.9%	5.5%

Non-residential users consumed a total of 100,180 cubic metres of water in 2005. The projected water flows are based on this level of consumption. Therefore the total water to be consumed by commercial users increases by 1% per annum, to account for growth. Table 2 illustrates the historical consumption pattern of the non-residential water users within the Township.

Non-Residential Water Consumption Pattern		
Level of Consumption	% of Users	% of Consumption
0 - 15 cubic metres / month	69.1%	38.2%
16 - 30 cubic metres / month	12.4%	12.2%
31 - 45 cubic metres / month	7.4%	7.5%
45+ cubic metres / month	11.1%	42.1%

The detailed water customer and consumption forecast for the planning period is outlined in Appendix A.

C. WASTEWATER DEMAND

Wastewater generation is not metered, so for the purpose of this analysis, is treated as equivalent to water consumption.

Currently, the only community within the Township receiving municipal wastewater servicing is Elmvale. Residential users in Elmvale consume an average of about 0.2 cubic metres of water per capita per day. Therefore, this level of consumption is used for the wastewater demand forecast. The following tables outline the historic wastewater generation patterns of the residential and non-residential users.

Residential Wastewater Generation Pattern		
Level of Consumption	% of Users	% of Generation
0 - 15 cubic metres / month	43.7%	70.9%
16 - 30 cubic metres / month	50.8%	26.6%
31 - 45 cubic metres / month	5.1%	2.3%
45+ cubic metres / month	0.4%	0.2%

Table 4		
Non-Residential Wastewater Generation Pattern		
Level of Consumption	% of Users	% of Generation
0 - 15 cubic metres / month	73.6%	47.4%
16 - 30 cubic metres / month	13.9%	10.8%
31 - 45 cubic metres / month	4.9%	6.3%
45+ cubic metres / month	7.6%	35.5%

The detailed wastewater customer and consumption forecast for the planning period is outlined in Appendix B.

IV WATER & WASTEWATER INFRASTRUCTURE

The Township's water system is relatively young. About 42 percent of total infrastructure asset value is less than 10 years of age and nearly 60 percent is less than 20 years of age. The Township's wastewater system is also relatively young with more than 65 percent of assets having been installed in the last 20 years.

The information contained in the database was gathered from the Township's existing database and the Water and Wastewater Needs Study. The information is used not only to describe, but also define the quantity, age and replacement value of the existing infrastructure. The inventory was grouped into nine main asset categories, six of which relate to water servicing and the remaining three to wastewater servicing.

A. EXISTING WATER INFRASTRUCTURE INVENTORY

The Township's extensive water infrastructure inventory totals over \$61 million. The largest shares of the infrastructure, by replacement value, are watermains. Watermains account for about 57 percent of the total replacement value of the Township's water infrastructure.

The following tables show the categories and age brackets of the water infrastructure and their corresponding current replacement values.

Category	Value
Watermains	\$ 34,658,000
Water Supply	\$ 5,460,000
Water Hydrants	\$ 2,616,000
Water Distribution	\$ 2,462,000
Water Meters & Connections	\$ 6,062,000
Other Water Infrastructure	\$ 9,900,000
TOTAL	\$ 61,158,000

Table 6	
Water Infrastructure Inventory by Age	
Age	Value
0 – 10 Years	\$ 25,694,400
11 – 20 Years	\$ 10,142,800
21 – 30 Years	\$ 1,360,000
31 – 40 Years	\$ 15,962,000
41 – 50 Years	\$ 7,998,800
TOTAL	\$ 61,158,000

B. EXISTING WASTEWATER INFRASTRUCTURE INVENTORY

Unlike the water system, the largest share of the wastewater assets, by replacement value, is in the wastewater treatment infrastructure. Sanitary sewer mains account for only 31 percent of the total replacement value of the Township’s wastewater infrastructure, whereas the wastewater treatment plant accounts for 56 percent.

The following tables show the categories and age brackets of the wastewater infrastructure and their corresponding current replacement values.

Table 7	
Wastewater Infrastructure Inventory by Type	
Category	Value
Wastewater Mains	\$ 8,354,500
Manholes & Pumping Stations	\$ 3,672,000
Wastewater Treatment	\$ 15,000,000
TOTAL	\$ 27,026,500

Table 8	
Wastewater Infrastructure Inventory by Age	
Age	Value
0 – 10 Years	\$ 1,272,000
11 – 20 Years	\$ 16,592,000
21 – 30 Years	\$ 2,972,500
31 – 40 Years	\$ 2,323,000
41 – 50 Years	\$ 3,867,000
TOTAL	\$ 27,026,500

V INFRASTRUCTURE REPLACEMENT

In addition to annual operating and maintenance costs, the water and wastewater infrastructure will eventually need to be replaced. Capital expenditures to carry out this replacement of aging infrastructure are not growth related and therefore would not receive funding through development charge revenues or other developer contributions. When the assets are due for replacement, the source of funds are essentially limited to reserves or contributions from operating. In maintaining a user-pay approach, it is important for the Township to build sufficient reserves for the scheduled replacement of infrastructure through contributions from operating.

A. PROVISIONS FOR INFRASTRUCTURE REPLACEMENT

The Township has not made sufficient provisions in the past to replace aging infrastructure and, as a result, some of the infrastructure is already past due for replacement. Water infrastructure already past due for replacement totals nearly \$240,000. In consideration of the funding shortfall to carry out these replacements immediately, which would have a significant impact to user rates, the lifecycle of these assets have been extended by a period of ten years.

A summary of the required annual provisions for asset replacement are outlined in Appendix C.

B. CALCULATION OF ANNUAL CONTRIBUTIONS

Provisions for infrastructure replacement are initially calculated for each asset individually. The aggregate of all individual provisions form the required annual contribution to a reserve fund. A full cost approach is employed to calculate the annual reserve fund contributions. This approach is recognized as a fair approach to charging customers for the use of these assets. As current assets are used by customers, provisions are made for the eventual replacement of these assets. Essentially, customers are paying for the assets they are using. In calculating the annual provisions, a number of assumptions are made to account for inflation, interest and the Township's policies and practices.

A 2 percent inflation rate and a 4 percent investment rate are assumed throughout this analysis. It is recommended the Township begin providing for infrastructure replacement immediately, for the remaining lives of the assets. The useful life for infrastructure which is currently past due has been extended by ten years in the analysis. The number of annual provisions for assets not yet past due is equivalent to the number of remaining years of life. It is also recommended the Township make annual provision for replaced and new infrastructure, not yet emplaced, for the entire lifecycle of the asset.

The combined total of all the individual annual provisions for water assets is the contribution requirement the Township must make to the Water Infrastructure Reserve Fund each year. The same concept applies to wastewater assets and the Wastewater Infrastructure Replacement Reserve Fund. This ensures adequate funds are available for asset replacements as scheduled. The total annual contribution changes as infrastructure is replaced because the number of payments is reset to the number of years between required replacements for that particular asset's lifecycle. These changes result in fluctuations to the annual contributions and ultimately the user rates.

To eliminate these fluctuations, reserve fund balances are projected over the entire planning period, while ensuring adequate funds are available for scheduled rehabilitation and replacements. Remaining consistent with the Full Cost approach, forecast growth and service demand must be taken into consideration when calculating the annual contributions to the reserve funds. Therefore, contributions to the reserve funds are calculated as portions of water or wastewater units. As the Township grows and service demand increases, the annual contribution amount increases at a corresponding rate.

By the end of the planning period, the reserve fund balances calculated using the stabilized method leaves the Township in a position to move forward. The Township will have recovered the funding gap created by insufficient provisions in the past.

The calculated contributions to the water and wastewater infrastructure rehabilitation and replacement reserve funds are outlined in the following table.

Table 9 Contributions to Infrastructure Rehabilitation and Replacement Reserve Funds	
	2006 Calculated Contribution
Water	\$ 815,529
Wastewater	\$ 314,917

The calculations of annual contributions for water and wastewater rehabilitation and replacement are outlined in Appendix D.

VI WATER & WASTEWATER SYSTEM COSTS

The total revenue the Township needs to collect through user rates is calculated by netting out non-user rate revenues from total operating expenditures.

A. OPERATING EXPENDITURES

Using the Township's 2005 actual operating costs, expenditures were increased annually at a rate of 2 percent to account for inflation. With an increase in water demand, a corresponding increase is required for items such as chemicals for water treatment and hydro. Therefore, in addition to the increase accounting for inflation, budgeted expenditures directly related to water and wastewater demand, were increased in relation to the projected increase in demand. The annual contribution to the water infrastructure replacement reserve fund is included in the Township's operating expenditure for future years.

1. Water System

The total operating expenditures for the water system in 2005 was \$1,005,025. Costs for 2006 are forecast to be \$1,954,075. This includes a calculated contribution to the rehabilitation and replacement reserve fund of \$815,529.

2. Wastewater System

The total operating expenditures for the wastewater system in 2005 was \$430,621. Costs for 2006 are forecast to be \$794,261. This includes a calculated contribution to the rehabilitation and replacement reserve fund of \$314,917.

B. NON-USER RATE REVENUES

Non-user rate revenues are budget items, which decrease the net operating budget, but are not recovered through water or wastewater user rates. Examples of non-user rate revenues are allocations to other departments, water meter sales and interest penalties. A 2 percent inflation rate is also applied to non-user rate revenues annually.

C. REQUIRED RATE REVENUE

The required rate revenue for the water system in 2006 is calculated to be \$1,409,567. This is the amount of revenue, which must be collected through the sale of water to fully recover the operating, rehabilitation and replacement costs of the water system. The wastewater system required rate revenue is calculated to be \$508,991 for 2006.

Detailed operating expenditures, non-user rate revenues and required rate revenues for water and wastewater systems are set out in Appendix E.

VII RATE STRUCTURES

Various water and wastewater rate structures are in place across Ontario municipalities. The many different rate structures include flat rates, constant rates, declining block rates and inclining block rates. Rate structures may also include fixed or minimum charges. The implementation of a particular rate structure depends on a number of factors including administrative and financial factors.

A. BACKGROUND

The Township currently has in place an inclining block structure with a minimum charge for residential users. A three block structure is used with block limits set at 30, 45 and in excess of 45 cubic metres per month. The water rate for consumption within the first block is treated as the base rate and the rate at which water is billed increases when consumption levels reach the next block. The existing minimum charge is equivalent to consumption of the entire first block. Water consumption in excess of the first block is then billed on a per cubic meter basis.

The block limit and minimum charge also applies to non-residential customers but the rate structure is an inverted block. The inverted block structure provides a reduced rate for consumption within the second block.

The current wastewater rate structure for both residential and non-residential users include a minimum charge, consisting of the entire first consumption block and an inclining block structure. It should be noted that although wastewater charges are based on water consumption, the existing water and wastewater rate structure for non-residential customers are not identical.

B. MOVING FORWARD

A consumption based charge applies to each unit of water consumed or wastewater generated. Therefore, allowing the customer to control the amount they would pay based on the amount of water consumed or wastewater generated.

Non-consumption based charges, such as fixed or minimum charges are calculated to recover the fixed costs of operating the water and wastewater systems. This ensures the recovery of costs for meter reading, billing and other costs incurred plus other

customer-related costs, such as meter repairs and replacements. These costs are not a function of the amount of consumption a customer uses.

The following changes are proposed to the Township, in support of the full cost recovery approach.

1. Eliminate Minimum Charge

With a minimum charge recovering fixed costs, system equitability is decreased. Essentially users are charged for an amount of water or wastewater service, which they may never consume/generate. Conservation may also be neglected since users are not impacted by their consumption until they exceed the minimum charge. System costs not related to consumption would be recovered through a fixed charge.

2. Decrease Block Limits

The benefits of eliminating the minimum charge are further supported by dividing the existing 0 to 30 cubic metres per month block into two blocks. The new blocks would consist of a 0 to 15 cubic metres and a 16 to 30 cubic metres per month block. Historically, 75 percent of residential water customers consumed less than 30 cubic metres of water per month. Approximately one third of those users consumed less than 15 cubic metres per month. These blocks would further support conservation efforts and more accurately reflect the consumption patterns of the Township's users.

3. Re-Align Rate Structure

By dividing the first block into two blocks, the surcharges or block rates relative to one another should be re-aligned. Again, to more accurately reflect the consumption patterns of the Township's users, the following table outlines the existing and proposed relationship between block charges. The discount for non-residential users in the second block is eliminated, providing a constant consumption rate.

Table 10				
Rate Structure – Block Charges				
	Residential		Non-Residential	
Blocks	Existing	Proposed	Existing	Proposed
0-15 m ³ /month	Base	Base	Base	Base
16-30 m ³ /month		+ 5%		
31-45 m ³ /month	+ 12.5%	+ 31.25%	- 25%	
45+ m ³ /month	+ 50 %	+ 83.75%	0 %	

4. Mirror Water and Wastewater Rate Structures

As stated previously, the rates structure between water and wastewater rates were not identical for non-residential users. The benefits of the proposed water rate structure would be minimized or negated by not sharing a common rate structure between water and wastewater rates. Therefore it is also propose the above changes to the rate structure be uniformly applied to both water and wastewater rates.

The proposed changes to the rate structure results in significant changes to most customers' water and wastewater charges. Although some users will see increases to their charges, others will have decreased charges. Ultimately, the new rate structures will provide a more equitable water and wastewater system, where customers will have more control of their water and wastewater charges. In consideration of the significant changes resulting from the changes to the rate structures, increases to the rates are delayed for the first year to ease the transition to a full cost recovery approach.

VIII CALCULATED RATES

A gradual approach was used in calculating the water and wastewater rates. An immediate implementation of full cost recovery rates would result in significant increases to user rates. This is a result of the infrastructure replacement reserve deficiency. The gradual approach allows for even annual increases over the planning period, excluding the first year as previously stated, while fully funding the replacement reserve fund. The reserves will have sufficient funds to carry out replacements as scheduled. Although full contributions are not made immediately, the calculated contributions are calculated to ensure funds are available when scheduled rehabilitations or replacements are due. By the end of the planning period, reserve funds will have recovered the insufficient contributions in the past.

A. WATER RATES

The water rates are calculated to recover the reserve fund deficiency and achieve full cost recovery status by 2015. An annual increase of 4.3 percent is required for the period 2007 to 2015.

Residential Water Rates				
	Existing Rates	2006 Restructured Rates (No Rate Increase)	2007 Calculated Rates	% Increase from 2006 to 2007
Monthly Charge	\$ 33.00 (minimum)	\$ 12.00 (fixed)	\$ 12.52 (fixed)	4.3%
0 - 15 cubic metres / month	\$ 1.100 / m ³	\$ 1.100 / m ³	\$ 1.147 / m ³	
16 - 30 cubic metres / month		\$ 1.155 / m ³	\$ 1.205 / m ³	
31 - 45 cubic metres / month	\$ 1.237 / m ³	\$ 1.444 / m ³	\$ 1.506 / m ³	
45+ cubic metres / month	\$ 1.650 / m ³	\$ 2.021 / m ³	\$ 2.108 / m ³	

Non-Residential Water Rates				
	Existing Rates	2006 Restructured Rates (No Rate Increase)	2007 Calculated Rates	% Increase from 2006 to 2007
Monthly Charge	\$ 33.00 (minimum)	\$ 20.00 (fixed)	\$ 20.86 (fixed)	4.3%
0 - 15 cubic metres / month	\$ 1.100 / m ³	\$ 1.100 / m ³	\$ 1.147 / m ³	
16 - 30 cubic metres / month		\$ 1.100 / m ³	\$ 1.147 / m ³	
31 - 45 cubic metres / month	\$ 0.825 / m ³	\$ 1.100 / m ³	\$ 1.147 / m ³	
45+ cubic metres / month	\$ 1.100 / m ³	\$ 1.100 / m ³	\$ 1.147 / m ³	

B. WASTEWATER RATES

The wastewater system is a smaller system than the water system, with significantly fewer users. The wastewater rates were calculated to recover the reserve deficiency and achieve full cost recovery status by 2025. An annual increase of 4.3 percent is required for the period 2007 to 2025.

Table 13				
Residential Wastewater Rates				
	Existing Rates	2006 Restructured Rates (No Rate Increase)	2007 Calculated Rates	% Increase from 2006 to 2007
Monthly Charge	\$ 39.60 (minimum)	\$ 20.00 (fixed)	\$ 20.86 (fixed)	4.3%
0 - 15 cubic metres / month	\$ 1.320 / m ³	\$ 1.320 / m ³	\$ 1.377 / m ³	
16 - 30 cubic metres / month		\$ 1.386 / m ³	\$ 1.466 / m ³	
31 - 45 cubic metres / month	\$ 1.125 / m ³	\$ 1.733 / m ³	\$ 1.807 / m ³	
45+ cubic metres / month	\$ 1.500 / m ³	\$ 2.426 / m ³	\$ 2.530 / m ³	

Table 14				
Non-Residential Wastewater Rates				
	Existing Rates	2006 Restructured Rates (No Rate Increase)	2007 Calculated Rates	% Increase from 2006 to 2007
Monthly Charge	\$ 39.60 (minimum)	\$ 25.00 (fixed)	\$ 26.08 (fixed)	4.3%
0 - 15 cubic metres / month	\$ 1.320 / m ³	\$ 1.320 / m ³	\$ 1.377 / m ³	
16 - 30 cubic metres / month		\$ 1.320 / m ³	\$ 1.377 / m ³	
31 - 45 cubic metres / month	\$ 1.125 / m ³	\$ 1.320 / m ³	\$ 1.377 / m ³	
45+ cubic metres / month	\$ 1.500 / m ³	\$ 1.320 / m ³	\$ 1.377 / m ³	

Detailed calculations of the water rate are outlined in Appendix F and wastewater rate calculations are outlined in Appendix G.

APPENDIX A

Water Demand Forecast

**TOWNSHIP OF SPRINGWATER
BACKGROUND REPORT - PURSUANT TO BILL 175
APPENDIX A**

WATER FLOWS	
Residential	0.3
Average m ³ per capita per day	
Users	% of users
0 - 15 cubic metres / month	26.4%
16 - 30 cubic metres / month	47.2%
31 - 45 cubic metres / month	17.5%
45+ cubic metres / month	8.9%
Total Users	
699	726
1,248	1,344
462	480
236	245
2,645	2,747
839	867
1,487	1,550
554	574
283	293
3,173	3,284
810	810
1,445	1,445
535	516
273	283
3,063	2,955
899	932
1,606	1,664
595	616
304	315
3,404	3,527
1,000	1,000
1,845	1,784
683	660
349	337
3,910	3,781
1,071	1,108
1,910	1,977
707	732
361	374
4,049	4,191
1,146	1,185
2,045	2,115
757	783
387	400
4,335	4,483
1,266	1,226
2,335	2,186
864	809
427	413
4,949	4,789
1,308	1,351
2,335	2,412
864	893
442	456
5,112	5,280
1,396	1,441
2,491	2,571
922	952
471	486
5,450	5,450
Consumption	% of consumption
0 - 15 cubic metres / month	54.7%
16 - 30 cubic metres / month	29.9%
31 - 45 cubic metres / month	10.0%
45+ cubic metres / month	5.5%
Yearly Water Total (m³)	
432,465	446,409
236,688	244,319
78,912	81,456
43,233	44,627
791,298	816,812
502,463	474,994
274,988	267,432
91,684	86,672
50,231	47,485
819,376	869,115
516,466	488,639
282,662	267,432
94,240	86,672
51,631	47,485
944,999	944,999
530,688	545,171
290,446	298,372
96,835	99,477
53,052	54,500
971,021	997,520
613,620	631,394
326,238	335,834
108,768	111,943
59,590	61,343
1,028,071	1,059,059
1,122,765	1,155,287
1,220,748	1,254,255
1,357,389	1,392,320
667,171	685,483
365,142	375,165
121,739	125,080
66,696	68,527
1,228,310	1,288,310
704,095	723,006
395,701	395,701
131,927	135,365
72,278	74,162
1,322,912	1,357,389
741,848	741,848
406,014	406,014
135,365	135,365
74,162	74,162
1,392,320	1,427,798
723,006	741,848
395,701	395,701
131,927	135,365
72,278	74,162
1,357,389	1,392,320
741,848	741,848
406,014	406,014
135,365	135,365
74,162	74,162
1,427,798	1,427,798
741,848	741,848
406,014	406,014
135,365	135,365
74,162	74,162
1,427,798	1,427,798
Commercial	1.0%
Annual Growth	
Users	% of users
0 - 15 cubic metres / month	69.1%
16 - 30 cubic metres / month	12.4%
31 - 45 cubic metres / month	7.4%
45+ cubic metres / month	11.1%
Total Users	
206	210
37	38
22	22
33	34
298	304
219	216
39	39
23	23
35	35
316	313
220	220
40	40
24	24
35	36
319	322
225	227
40	41
24	24
36	36
325	328
229	229
41	41
24	24
37	37
334	337
231	233
41	42
25	25
37	37
340	343
235	237
42	43
25	26
38	38
349	352
241	241
43	44
26	26
39	39
356	360
247	248
44	45
27	27
40	40
360	364
Consumption	% of consumption
0 - 15 cubic metres / month	38.2%
16 - 30 cubic metres / month	12.2%
31 - 45 cubic metres / month	7.5%
45+ cubic metres / month	42.1%
Yearly Water Total (m³)	
38,261	38,644
12,225	12,347
7,471	7,546
42,223	42,645
100,180	101,182
40,615	41,431
12,977	13,107
7,931	8,010
44,821	45,269
106,343	107,407
40,213	41,845
12,849	13,370
7,852	8,171
44,377	46,179
105,290	109,565
41,021	43,545
13,107	13,775
8,010	8,588
45,269	48,554
111,768	112,885
42,664	44,420
13,504	14,052
8,253	8,674
46,640	49,020
110,661	116,306
43,113	44,864
13,913	14,335
8,419	8,948
48,554	50,005
114,014	117,469
43,545	45,313
13,775	14,278
8,588	9,026
48,554	50,505
115,154	118,644
44,420	46,223
14,193	14,769
8,674	9,116
49,020	51,010
116,306	121,028
44,864	46,688
14,335	14,917
8,948	9,207
50,005	51,520
117,469	122,239
45,313	47,566
14,278	15,066
9,026	9,116
50,505	52,035
118,644	123,461
46,223	48,239
14,769	15,520
9,116	9,207
51,010	52,035
121,028	123,461
46,688	48,239
14,917	15,520
9,207	9,207
51,520	52,035
122,239	123,461
47,566	49,020
15,066	15,520
9,207	9,207
52,035	52,035
123,461	123,461
48,239	49,020
15,520	15,520
9,207	9,207
52,035	52,035
123,461	123,461
Total Yearly Water (m³)	
891,478	917,993
944,957	972,331
1,024,666	1,051,342
1,078,428	1,106,001
1,137,636	1,189,720
1,189,720	1,202,449
1,235,650	1,269,301
1,302,853	1,337,054
1,371,724	1,406,953
1,442,742	1,478,417
1,514,568	1,551,259

APPENDIX B

Wastewater Demand Forecast

**TOWNSHIP OF SPRINGWATER
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APPENDIX B**

WASTEWATER FLOWS																					
Residential																					
Average m ³ per capita per day																					
0.20																					
% of users																					
43.7%																					
50.8%																					
5.1%																					
0.4%																					
Total Users																					
719	803	815	827	839	852	865	878	892	906	920	934	950	966	982	998	1,016	1,034	1,052	1,071	1,090	1,109
% of generation																					
70.9%																					
26.6%																					
2.3%																					
0.2%																					
Consumption																					
110,496	111,928	113,160	114,547	115,827	117,159	118,491	119,827	121,210	122,798	124,386	126,030	127,720	129,411	131,101	132,796	134,538	136,331	138,124	139,922	141,715	143,559
0 - 15 cubic metres / month	41,462	42,462	42,982	43,463	43,982	44,462	44,963	45,482	46,078	46,674	47,291	47,925	48,559	49,194	49,830	50,483	51,156	51,829	52,504	53,176	53,868
16 - 30 cubic metres / month	3,517	3,559	3,602	3,646	3,687	3,729	3,771	3,814	3,858	3,909	4,011	4,065	4,119	4,173	4,227	4,282	4,339	4,396	4,454	4,511	4,569
31 - 45 cubic metres / month	336	340	344	348	352	356	360	364	369	373	383	388	394	399	404	409	415	420	425	431	437
45+ cubic metres / month																					
Yearly Wastewater Total (m³)																					
155,811	157,689	159,567	161,523	163,329	165,207	167,085	168,968	170,919	173,158	175,397	177,715	180,099	182,483	184,866	187,257	189,713	192,241	194,769	197,304	199,832	202,433
Commercial																					
Annual Growth																					
1.0%																					
% of users																					
73.6%																					
13.9%																					
4.9%																					
7.6%																					
Total Users																					
288	291	294	297	300	303	306	309	312	315	318	321	324	327	330	333	336	339	342	345	348	351
% of generation																					
47.4%																					
10.8%																					
6.3%																					
35.5%																					
Consumption																					
36,926	37,295	37,668	38,045	38,425	38,810	39,198	39,590	39,986	40,385	40,789	41,197	41,609	42,025	42,445	42,870	43,299	43,732	44,169	44,611	45,057	45,507
0 - 15 cubic metres / month	8,413	8,497	8,582	8,668	8,755	8,842	8,931	9,020	9,110	9,201	9,293	9,386	9,480	9,575	9,671	9,765	9,864	9,964	10,063	10,164	10,265
16 - 30 cubic metres / month	4,916	4,965	5,015	5,065	5,116	5,167	5,218	5,271	5,323	5,377	5,430	5,485	5,539	5,595	5,651	5,707	5,764	5,822	5,880	5,939	5,998
31 - 45 cubic metres / month	27,717	27,994	28,274	28,557	28,842	29,131	29,422	29,716	30,014	30,314	30,617	30,923	31,232	31,545	31,860	32,179	32,500	32,825	33,154	33,485	33,820
45+ cubic metres / month																					
Yearly Wastewater Total (m³)																					
233,783	236,441	239,106	241,858	244,467	247,156	249,854	252,565	255,351	258,435	261,527	264,706	267,980	271,222	274,493	277,780	281,141	284,883	288,035	291,503	294,973	298,925

APPENDIX C

Annual Provisions for Infrastructure Replacement

TOWNSHIP OF SPRINGWATER
BACKGROUND REPORT - PURSUANT TO BILL 175
APPENDIX C - PAGE 1

CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Watermain

Inflation 2%
Long-term investment 4%
Percentage of Life Over Which Payments Made 100% (applies only to assets with lifespan >= 10 years)
Extend Life of "Overdue" facilities by 10 years (1 is minimum acceptable value)

Qty. (m)	Material/Diameter (mm)	Year Installed	Life Expect.	Overdue	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle		
						Year of First Replace.	No. of Payments	Replace. Amount \$	Year of Second Replace.	No. of Payments	Replace. Amount \$	Year of Third Replace.	No. of Payments	Replace. Amount \$
68	SPRINGWATER - 3745 - PVC - 25mm	1960	100		\$ 27,744	2060	54	\$ 80,831	2160	100	\$ 585,593	2260	100	\$ 4,242,411
245	SPRINGWATER - 3765 - PVC - 50mm	1960	100		\$ 99,960	2060	54	\$ 291,230	2160	100	\$ 2,109,855	2260	100	\$ 15,285,156
52	SPRINGWATER - 3766 - PVC - 150mm	1960	100		\$ 21,216	2060	54	\$ 61,812	2160	100	\$ 447,806	2260	100	\$ 3,244,196
146	SPRINGWATER - 3748 - PVC - 250mm	1960	100		\$ 59,568	2060	54	\$ 173,549	2160	100	\$ 1,257,302	2260	100	\$ 9,108,705
2	SPRINGWATER - 3713 - PVC - 150mm	1960	100		\$ 816	2060	54	\$ 2,377	2160	100	\$ 17,223	2260	100	\$ 124,777
640	SPRINGWATER - 3764 - PVC - 150mm	1960	100		\$ 261,120	2060	54	\$ 760,763	2160	100	\$ 5,511,459	2260	100	\$ 39,928,571
3	SPRINGWATER - 3714 - PVC - 200mm	1960	100		\$ 1,224	2060	54	\$ 3,566	2160	100	\$ 25,835	2260	100	\$ 187,165
74	SPRINGWATER - 3753 - PVC - 150mm	1960	100		\$ 30,192	2060	54	\$ 87,963	2160	100	\$ 637,262	2260	100	\$ 4,616,741
156	ANTEN - 2518 - PVC - 50mm	2002	100		\$ 63,648	2102	96	\$ 425,992	2202	100	\$ 3,086,160	2302	100	\$ 22,358,136
176	ANTEN - 3023 - PVC - 50mm	2002	100		\$ 71,808	2102	96	\$ 480,606	2202	100	\$ 3,481,821	2302	100	\$ 25,224,564
20	ANTEN - 3139 - PVC - 100mm	2003	100		\$ 8,160	2103	97	\$ 55,707	2203	100	\$ 403,575	2303	100	\$ 2,923,756
83	ANTEN - 3142 - PVC - 100mm	2003	100		\$ 33,864	2103	97	\$ 231,182	2203	100	\$ 1,674,835	2303	100	\$ 12,133,589
7	ANTEN - 3222 - PVC - 150mm	2002	100		\$ 2,856	2102	96	\$ 19,115	2202	100	\$ 138,482	2302	100	\$ 1,003,250
23	ANTEN - 2528 - PVC - 150mm	2002	100		\$ 9,384	2102	96	\$ 62,806	2202	100	\$ 455,011	2302	100	\$ 3,296,392
23	ANTEN - 2514 - PVC - 150mm	2002	100		\$ 9,384	2102	96	\$ 62,806	2202	100	\$ 455,011	2302	100	\$ 3,296,392
30	ANTEN - 2478 - PVC - 150mm	2002	100		\$ 12,240	2102	96	\$ 81,922	2202	100	\$ 593,492	2302	100	\$ 4,299,642
120	ANTEN - 3221 - PVC - 150mm	2002	100		\$ 48,960	2102	96	\$ 327,686	2202	100	\$ 2,373,969	2302	100	\$ 17,198,567
17	ANTEN - 2471 - PVC - 150mm	2002	100		\$ 6,936	2102	96	\$ 46,422	2202	100	\$ 336,312	2302	100	\$ 2,436,464
176	ANTEN - 3150 - PVC - 150mm	2002	100		\$ 82,416	2102	96	\$ 480,606	2202	100	\$ 3,481,821	2302	100	\$ 25,224,564
202	ANTEN - 3135 - PVC - 150mm	2002	100		\$ 68,544	2102	96	\$ 458,760	2202	100	\$ 3,323,557	2302	100	\$ 24,077,993
180	ANTEN - 3167 - PVC - 150mm	2002	100		\$ 73,440	2102	96	\$ 464,222	2202	100	\$ 3,363,123	2302	100	\$ 24,364,636
17	ANTEN - 2526 - PVC - 150mm	2002	100		\$ 7,344	2102	96	\$ 49,153	2202	100	\$ 356,095	2302	100	\$ 2,579,785
18	ANTEN - 2470 - PVC - 150mm	2002	100		\$ 2,856	2102	96	\$ 19,115	2202	100	\$ 138,482	2302	100	\$ 1,003,250
17	ANTEN - 2472 - PVC - 150mm	2002	100		\$ 6,936	2102	96	\$ 46,422	2202	100	\$ 336,312	2302	100	\$ 2,436,464
35	ANTEN - 2473 - PVC - 150mm	2002	100		\$ 14,280	2102	96	\$ 95,575	2202	100	\$ 692,408	2302	100	\$ 5,016,249
13	ANTEN - 2476 - PVC - 150mm	2002	100		\$ 5,304	2102	96	\$ 35,499	2202	100	\$ 257,180	2302	100	\$ 1,863,178
16	ANTEN - 2477 - PVC - 150mm	2002	100		\$ 6,528	2102	96	\$ 43,691	2202	100	\$ 316,529	2302	100	\$ 2,293,142
1	ANTEN - 2524 - PVC - 150mm	2002	100		\$ 408	2102	96	\$ 2,731	2202	100	\$ 19,783	2302	100	\$ 143,321
33	ANTEN - 2529 - PVC - 150mm	2002	100		\$ 13,464	2102	96	\$ 90,114	2202	100	\$ 652,842	2302	100	\$ 4,729,606
23	ANTEN - 3168 - PVC - 150mm	2002	100		\$ 11,016	2102	96	\$ 62,806	2202	100	\$ 455,011	2302	100	\$ 3,296,392
27	ANTEN - 2500 - PVC - 150mm	2002	100		\$ 9,384	2102	96	\$ 73,729	2202	100	\$ 534,143	2302	100	\$ 3,869,677
29	ANTEN - 2486 - PVC - 150mm	2002	100		\$ 11,832	2102	96	\$ 79,191	2202	100	\$ 573,709	2302	100	\$ 4,156,320
92	ANTEN - 2487 - PVC - 150mm	2002	100		\$ 37,536	2102	96	\$ 251,226	2202	100	\$ 1,820,043	2302	100	\$ 13,185,568
63	ANTEN - 2490 - PVC - 150mm	2002	100		\$ 25,704	2102	96	\$ 172,035	2202	100	\$ 1,246,334	2302	100	\$ 9,029,247
7	ANTEN - 2497 - PVC - 150mm	2002	100		\$ 2,856	2102	96	\$ 19,115	2202	100	\$ 138,482	2302	100	\$ 1,003,250
6	ANTEN - 2498 - PVC - 150mm	2002	100		\$ 2,448	2102	96	\$ 16,384	2202	100	\$ 118,698	2302	100	\$ 859,928
296	ANTEN - 3162 - PVC - 150mm	2002	100		\$ 120,768	2102	96	\$ 808,292	2202	100	\$ 5,855,791	2302	100	\$ 42,423,131
37	ANTEN - 3169 - PVC - 150mm	2002	100		\$ 15,096	2102	96	\$ 101,037	2202	100	\$ 731,974	2302	100	\$ 5,302,891
38	ANTEN - 2542 - PVC - 150mm	2002	100		\$ 3,672	2102	96	\$ 24,576	2202	100	\$ 178,048	2302	100	\$ 1,289,892
66	ANTEN - 2484 - PVC - 150mm	2002	100		\$ 26,928	2102	96	\$ 180,227	2202	100	\$ 1,305,683	2302	100	\$ 9,459,212
97	ANTEN - 2503 - PVC - 150mm	2002	100		\$ 39,576	2102	96	\$ 264,880	2202	100	\$ 1,918,958	2302	100	\$ 13,902,175
145	ANTEN - 2504 - PVC - 150mm	2002	100		\$ 59,160	2102	96	\$ 395,954	2202	100	\$ 2,868,546	2302	100	\$ 20,781,601
7	ANTEN - 2506 - PVC - 150mm	2002	100		\$ 2,856	2102	96	\$ 19,115	2202	100	\$ 138,482	2302	100	\$ 1,003,250
255	ANTEN - 2507 - PVC - 150mm	2002	100		\$ 104,040	2102	96	\$ 696,333	2202	100	\$ 5,044,684	2302	100	\$ 36,546,954
82	ANTEN - 2508 - PVC - 150mm	2002	100		\$ 33,456	2102	96	\$ 223,919	2202	100	\$ 1,622,212	2302	100	\$ 11,752,354

TOWNSHIP OF SPRINGWATER
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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Qty. (m)	Material/Diameter (mm)	Year Installed	Life Expect.	Overdue	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle			
						Year of First Replace.	No. of Payments	Annual Amount	Year of Second Replace.	No. of Payments	Annual Amount	Year of Third Replace.	No. of Payments	Annual Amount	
7	ANTEN - 2500 - PVC - 150mm	2002	2,856			96	2102	13,115	18	100	138,482	112	100	1,003,250	811
12	ANTEN - 2510 - PVC - 150mm	2002	4,896			96	2102	32,769	31	100	237,397	192	100	1,719,857	1,390
41	ANTEN - 2512 - PVC - 150mm	2002	16,728			96	2102	111,959	106	100	811,106	655	100	5,876,177	4,748
27	ANTEN - 2543 - PVC - 150mm	2002	11,016			96	2102	73,729	70	100	534,143	432	100	3,869,677	3,127
82	ANTEN - 3143 - PVC - 150mm	2003	33,456			97	2203	228,397	208	100	1,654,657	1,337	100	11,987,401	9,686
36	ANTEN - 3140 - PVC - 150mm	2003	14,688			97	2203	100,272	91	100	726,435	587	100	5,262,761	4,252
12	ANTEN - 3141 - PVC - 150mm	2003	4,896			97	2203	33,424	30	100	242,145	196	100	1,754,254	1,417
93	ANTEN - 2579 - PVC - 150mm	1973	37,944			67	2073	143,006	445	100	1,036,029	837	100	7,505,661	6,065
127	ANTEN - 2553 - PVC - 150mm	1973	51,816			67	2073	195,288	608	100	1,414,792	1,143	100	10,249,667	8,282
127	ANTEN - 3133 - PVC - 150mm	1973	51,816			67	2073	195,288	608	100	1,414,792	1,143	100	10,249,667	8,282
10	ANTEN - 2555 - PVC - 150mm	1973	4,080			67	2073	15,377	48	100	111,401	90	100	807,060	652
10	ANTEN - 2556 - PVC - 150mm	1973	4,080			67	2073	15,377	48	100	111,401	90	100	807,060	652
110	ANTEN - 2558 - PVC - 150mm	1973	44,880			67	2073	169,147	527	100	1,225,410	990	100	8,877,664	7,173
31	ANTEN - 2560 - PVC - 150mm	1973	12,648			67	2073	47,669	148	100	345,343	279	100	2,501,887	2,022
12	ANTEN - 2561 - PVC - 150mm	1973	4,896			67	2073	18,452	57	100	133,681	108	100	968,472	783
27	ANTEN - 2565 - PVC - 150mm	1973	11,016			67	2073	41,518	129	100	300,783	243	100	2,179,063	1,761
7	ANTEN - 2569 - PVC - 150mm	1973	4,080			67	2073	15,377	48	100	111,401	90	100	807,060	652
1	ANTEN - 3158 - PVC - 150mm	1973	408			67	2073	1,538	5	100	11,140	9	100	80,706	65
139	ANTEN - 2578 - PVC - 150mm	1973	56,712			67	2073	213,740	666	100	1,548,473	1,251	100	11,218,139	9,064
53	ANTEN - 2552 - PVC - 150mm	1973	21,624			67	2073	81,498	254	100	590,425	477	100	4,277,420	3,456
18	ANTEN - 3165 - PVC - 150mm	1973	7,344			67	2073	27,679	86	100	200,522	162	100	1,452,709	1,174
33	ANTEN - 3154 - PVC - 150mm	1973	13,464			67	2073	50,744	158	100	367,623	297	100	2,663,299	2,152
3	ANTEN - 3149 - PVC - 150mm	1973	1,224			67	2073	4,613	14	100	33,420	27	100	242,118	196
121	ANTEN - 3148 - PVC - 150mm	1973	49,368			67	2073	186,062	579	100	1,347,951	1,089	100	9,785,431	7,890
10	ANTEN - 3146 - PVC - 150mm	1973	4,080			67	2073	15,377	48	100	111,401	90	100	807,060	652
12	ANTEN - 3145 - PVC - 150mm	1973	4,896			67	2073	18,452	57	100	133,681	108	100	968,472	783
276	ANTEN - 3144 - PVC - 150mm	1973	112,608			67	2073	424,405	1,322	100	3,074,666	2,484	100	22,274,866	17,998
10	ANTEN - 3137 - PVC - 150mm	1973	4,080			67	2073	15,377	48	100	111,401	90	100	807,060	652
34	ANTEN - 3156 - PVC - 150mm	1973	13,872			67	2073	52,282	163	100	378,763	306	100	2,744,005	2,217
30	ANTEN - 3156 - PVC - 150mm	1973	12,240			67	2073	46,131	144	100	334,203	270	100	2,421,181	1,956
8	ANTEN - 3157 - PVC - 150mm	1973	3,264			67	2073	12,302	38	100	89,121	72	100	645,648	522
10	ANTEN - 2536 - PVC - 150mm	1973	4,080			67	2073	15,377	48	100	111,401	90	100	807,060	652
10	ANTEN - 2537 - PVC - 150mm	1973	3,672			67	2073	13,839	43	100	100,261	81	100	807,060	652
9	ANTEN - 2540 - PVC - 150mm	1973	72,624			67	2073	273,711	852	100	1,982,937	1,602	100	14,365,675	11,607
178	ANTEN - 2546 - PVC - 150mm	1973	74,256			67	2073	279,861	872	100	2,027,497	1,638	100	14,688,499	11,868
182	ANTEN - 2534 - PVC - 150mm	1973	88,128			67	2073	332,143	1,034	100	2,406,260	1,944	100	17,432,504	14,085
216	ANTEN - 2531 - PVC - 150mm	1973	41,208			67	2073	155,308	484	100	1,125,149	909	100	8,151,310	6,586
83	ANTEN - 2535 - PVC - 150mm	1973	33,864			67	2073	127,629	398	100	924,628	747	100	6,988,601	5,412
27	ANTEN - 2538 - PVC - 150mm	1973	11,016			67	2073	41,518	129	100	300,783	243	100	2,179,063	1,761
140	MIDHURST - 2016 - PVC - 150mm	1989	57,120			83	2089	295,531	474	100	2,141,015	1,730	100	15,510,893	12,533
177	MIDHURST - 2013 - PVC - 150mm	1989	72,216			83	2089	373,635	600	100	2,706,854	2,187	100	19,610,201	15,845
55	MIDHURST - 3641 - PVC - 150mm	1989	22,440			83	2089	116,101	186	100	841,113	680	100	6,093,565	4,924
10	MIDHURST - 3642 - PVC - 150mm	1989	4,080			83	2089	21,109	34	100	152,930	124	100	1,107,921	895
64	MIDHURST - 3510 - PVC - 150mm	1989	26,112			83	2089	135,100	217	100	978,750	791	100	7,090,694	5,729
491	MIDHURST - 3512 - PVC - 150mm	1989	101,184			83	2089	523,511	840	100	3,792,654	3,064	100	27,476,439	22,201
248	MIDHURST - 2010 - PVC - 150mm	1989	93,432			83	2089	483,404	776	100	3,502,088	2,830	100	25,371,390	20,500
229	MIDHURST - 2011 - PVC - 150mm	1989	93,432			83	2089	483,404	776	100	3,502,088	2,830	100	25,371,390	20,500
3	MIDHURST - 3689 - PVC - 150mm	1989	6,333			83	2089	6,333	10	100	45,879	37	100	332,736	269
15	MIDHURST - 3674 - PVC - 150mm	1989	6,120			83	2089	31,664	34	100	229,394	185	100	1,661,881	1,343
10	MIDHURST - 3677 - PVC - 150mm	1989	4,080			83	2089	21,109	34	100	152,930	124	100	1,107,921	895
70	MIDHURST - 3687 - PVC - 150mm	1989	28,560			83	2089	147,765	237	100	1,070,507	865	100	7,755,447	6,266
15	MIDHURST - 3679 - PVC - 150mm	1989	6,120			83	2089	31,664	51	100	229,394	185	100	1,661,881	1,343
106	MIDHURST - 3688 - PVC - 150mm	1989	43,248			83	2089	223,759	359	100	1,621,065	1,310	100	11,743,962	9,489
147	MIDHURST - 3684 - PVC - 150mm	1989	59,976			83	2089	310,307	498	100	2,482,054	1,816	100	16,286,438	13,159
2	MIDHURST - 3685 - PVC - 150mm	1989	816			83	2089	4,222	7	100	30,586	25	100	221,584	179

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Qty. (m)	Material/Diameter (mm)	Year Installed	Life Expect.	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle		
					Year of First Replace.	No. of Payments	Annual Provision \$	Year of Second Replace.	No. of Payments	Annual Provision \$	Year of Third Replace.	No. of Payments	Annual Provision \$
9	MIDHURST - 3678 - PVC - 150mm	1989	100	3,672	2089	83	18,998	2189	100	137,637	2289	100	997,129
102	MIDHURST - 3675 - PVC - 150mm	1989	100	41,616	2089	83	216,315	2189	100	1,559,882	2289	100	11,300,794
152	MIDHURST - 3608 - PVC - 150mm	1991	100	62,016	2091	85	333,825	2191	100	2,418,441	2291	100	17,520,750
43	MIDHURST - 3582 - PVC - 150mm	1991	100	17,544	2091	85	94,437	2191	100	684,164	2291	100	4,956,528
134	MIDHURST - 3600 - PVC - 150mm	1991	100	54,672	2091	85	294,293	2191	100	2,132,047	2291	100	15,445,925
2	MIDHURST - 3598 - PVC - 150mm	1991	100	816	2091	85	4,392	2191	100	31,822	2291	100	230,536
1	MIDHURST - 3605 - PVC - 150mm	1991	100	816	2091	85	4,392	2191	100	31,822	2291	100	230,536
19	MIDHURST - 3584 - PVC - 150mm	1991	100	7,752	2091	85	41,728	2191	100	302,305	2291	100	2,190,094
153	MIDHURST - 3586 - PVC - 150mm	1991	100	62,424	2091	85	336,021	2191	100	2,434,352	2291	100	17,636,019
2	MIDHURST - 3590 - PVC - 150mm	1991	100	816	2091	85	4,392	2191	100	31,822	2291	100	230,536
68	MIDHURST - 3592 - PVC - 150mm	1991	100	27,744	2091	85	149,343	2191	100	1,081,934	2291	100	7,838,230
1	MIDHURST - 3509 - PVC - 150mm	1991	100	408	2091	85	2,196	2191	100	15,911	2291	100	115,268
361	MIDHURST - 3508 - PVC - 150mm	1991	100	147,288	2091	85	792,833	2191	100	5,743,798	2291	100	41,611,782
42	MIDHURST - 3599 - PVC - 150mm	1991	100	17,136	2091	85	92,241	2191	100	688,253	2291	100	4,841,260
172	MIDHURST - 3607 - PVC - 150mm	1991	100	70,176	2091	85	377,749	2191	100	2,736,657	2291	100	19,826,117
4	MIDHURST - 3632 - PVC - 150mm	1998	100	1,632	2098	92	10,091	2198	100	73,106	2298	100	529,627
157	MIDHURST - 3629 - PVC - 150mm	1998	100	64,056	2098	92	396,073	2198	100	2,869,411	2298	100	20,787,869
248	MIDHURST - 3629 - PVC - 150mm	1998	100	101,884	2098	92	625,645	2198	100	4,532,573	2298	100	32,836,889
11	MIDHURST - 1964 - PVC - 150mm	1998	100	4,488	2098	92	27,750	2198	100	201,042	2298	100	1,456,475
466	MIDHURST - 1964 - PVC - 150mm	1998	100	190,128	2098	92	1,175,606	2198	100	8,516,851	2298	100	61,701,573
78	MIDHURST - 1961 - PVC - 150mm	1998	100	31,824	2098	92	196,775	2198	100	1,425,567	2298	100	10,327,731
144	MIDHURST - 1959 - PVC - 150mm	1998	100	58,752	2098	92	363,277	2198	100	2,631,817	2298	100	19,066,580
3	MIDHURST - 3588 - PVC - 150mm	1998	100	1,224	2098	92	7,568	2198	100	54,830	2298	100	397,220
2	MIDHURST - 3649 - PVC - 150mm	1998	100	816	2098	92	5,046	2198	100	36,553	2298	100	264,814
2	MIDHURST - 1514 - PVC - 150mm	1998	100	816	2098	92	5,046	2198	100	36,553	2298	100	264,814
240	MIDHURST - 3650 - PVC - 150mm	1998	100	97,920	2098	92	605,462	2198	100	4,386,361	2298	100	31,777,634
2	MIDHURST - 3727 - PVC - 150mm	1999	100	816	2099	93	5,146	2199	100	37,284	2299	100	270,110
70	MIDHURST - 3726 - PVC - 150mm	1999	100	28,560	2099	93	180,125	2199	100	1,304,942	2299	100	9,453,846
31	MIDHURST - 1513 - PVC - 150mm	1999	100	12,648	2099	93	79,770	2199	100	577,903	2299	100	4,186,703
194	MIDHURST - 3645 - PVC - 150mm	1999	100	79,152	2099	93	499,204	2199	100	3,616,555	2299	100	26,200,659
295	MIDHURST - 3625 - PVC - 150mm	1999	100	120,360	2099	93	759,099	2199	100	5,499,400	2299	100	39,841,209
230	MIDHURST - 3646 - PVC - 150mm	1999	100	93,840	2099	93	591,840	2199	100	4,287,668	2299	100	31,062,637
9	MIDHURST - 3647 - PVC - 150mm	1999	100	3,672	2099	93	23,159	2199	100	167,778	2299	100	1,215,495
8	MIDHURST - 1556 - PVC - 150mm	1999	100	4,488	2099	93	26,305	2199	100	205,062	2299	100	1,485,604
11	MIDHURST - 3648 - PVC - 150mm	1999	100	3,264	2099	93	20,586	2199	100	149,136	2299	100	1,080,440
164	MIDHURST - 3623 - PVC - 150mm	2000	100	66,912	2100	94	430,447	2200	100	3,118,440	2300	100	22,591,991
3	MIDHURST - 3638 - PVC - 150mm	2000	100	816	2100	96	5,249	2200	100	38,030	2300	100	275,512
3	MIDHURST - 3620 - PVC - 150mm	2002	100	1,224	2102	96	8,192	2202	100	59,349	2302	100	429,964
12	MIDHURST - 3621 - PVC - 150mm	2002	100	4,896	2102	96	32,769	2202	100	237,397	2302	100	1,719,857
5	MIDHURST - 3635 - PVC - 150mm	2002	100	2,040	2102	96	13,654	2202	100	98,915	2302	100	716,607
101	MIDHURST - 1635 - PVC - 150mm	1974	100	41,208	2074	88	158,414	2174	100	1,147,652	2274	100	8,314,336
2	MIDHURST - 3633 - PVC - 150mm	1974	100	816	2074	88	3,137	2174	100	22,726	2274	100	164,640
3	MIDHURST - 3634 - PVC - 150mm	1974	100	1,224	2074	88	4,705	2174	100	34,089	2274	100	246,960
18	MIDHURST - 1559 - PVC - 150mm	1974	100	7,344	2074	88	28,232	2174	100	204,532	2274	100	1,481,763
3	MIDHURST - 1564 - PVC - 150mm	1974	100	1,224	2074	88	4,705	2174	100	34,089	2274	100	246,960
32	MIDHURST - 1925 - PVC - 150mm	1974	100	13,056	2074	88	50,191	2174	100	363,613	2274	100	2,634,245
238	MIDHURST - 1631 - PVC - 150mm	1974	100	97,104	2074	88	373,292	2174	100	2,704,369	2274	100	19,592,198
176	MIDHURST - 1647 - PVC - 150mm	1974	100	71,808	2074	88	276,048	2174	100	1,999,870	2274	100	14,488,348
133	MIDHURST - 1629 - PVC - 150mm	1974	100	69,768	2074	88	263,206	2174	100	1,943,055	2274	100	14,076,747
103	MIDHURST - 1629 - PVC - 150mm	1974	100	54,264	2074	88	208,604	2174	100	1,511,265	2274	100	10,948,591
112	MIDHURST - 1628 - PVC - 150mm	1974	100	41,616	2074	88	159,982	2174	100	1,159,011	2274	100	8,396,656
115	MIDHURST - 1627 - PVC - 150mm	1974	100	46,920	2074	88	180,372	2174	100	1,306,733	2274	100	9,486,818
112	MIDHURST - 1625 - PVC - 150mm	1974	100	45,696	2074	88	175,687	2174	100	1,272,644	2274	100	9,219,858
12	MIDHURST - 1934 - PVC - 150mm	1974	100	4,896	2074	88	18,821	2174	100	136,355	2274	100	987,842
223	MIDHURST - 1930 - PVC - 150mm	1974	100	90,984	2074	88	349,765	2174	100	2,533,926	2274	100	18,357,395
19	MIDHURST - 3587 - PVC - 150mm	1974	100	7,752	2074	88	29,801	2174	100	215,895	2274	100	1,564,083

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Table with columns: Qty. (m), Material, Diameter (mm), Year Installed, Life Expect., Overdue, 2006 Replacement Cost, Year of First Replace, First Cycle (No. of Payments, Amount, Annual Provision), Year of Second Replace, Second Cycle (No. of Payments, Amount, Annual Provision), Year of Third Replace, Third Cycle (No. of Payments, Amount, Annual Provision). Rows list various pipe materials like MIDHURST-1888-PVC-150mm through MIDHURST-1793-PVC-150mm.

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Qty. (m)	Material Diameter (mm)	Year Installed	Life Expect.	Year of First Replace.	2006 Replacement Cost			First Cycle			Second Cycle			Third Cycle		
					Replacement Cost	Year of First Replace.	No. of Payments	Replace. Amount	Annual Provision	Year of Second Replace.	No. of Payments	Replace. Amount	Annual Provision	Year of Third Replace.	No. of Payments	Replace. Amount
16	ELMVALE - 3004 - DI - 250mm	1980	100	2060	6,528	54	13,019	104	100	137,786	111	100	998,214	807		
92	ELMVALE - 2874 - DI - 250mm	1960	100	2060	37,536	54	109,360	598	2160	792,274	640	2260	5,739,732	4,638		
146	ELMVALE - 2879 - DI - 250mm	1960	100	2060	59,568	54	173,549	949	2160	1,257,302	1,016	2260	9,108,705	7,360		
227	ELMVALE - 2920 - DI - 250mm	1960	100	2060	92,616	54	269,833	1,476	2160	1,954,846	1,580	2260	14,162,165	11,443		
8	ELMVALE - 2878 - DI - 250mm	1960	100	2060	3,264	54	9,510	52	2160	68,893	56	2260	499,107	403		
61	ELMVALE - 2654 - DI - 250mm	1960	100	2060	24,888	54	72,510	397	2160	525,311	424	2260	3,805,692	3,075		
773	ELMVALE - 2742 - PVC - 38mm	1960	100	2060	315,384	54	918,859	5,025	2160	6,656,809	5,379	2260	48,226,227	38,967		
103	ELMVALE - 2809 - PVC - 50mm	1960	100	2060	42,024	54	122,435	670	2160	887,000	717	2260	6,426,004	5,192		
25	ELMVALE - 2813 - PVC - 50mm	1960	100	2060	10,200	54	29,717	163	2160	215,291	174	2260	1,559,710	1,260		
70	ELMVALE - 2860 - PVC - 150mm	1987	100	2060	28,560	81	142,027	247	2167	1,028,938	831	2287	7,454,293	6,023		
40	ELMVALE - 2856 - PVC - 150mm	1987	100	2060	37,128	81	184,636	321	2167	1,337,620	1,081	2287	9,690,581	7,830		
16	ELMVALE - 2805 - PVC - 150mm	1985	100	2060	6,528	89	39,036	48	2195	587,965	475	2285	4,259,596	3,442		
128	ELMVALE - 2817 - PVC - 150mm	1985	100	2060	52,224	89	304,288	363	2195	2,755,558	2,23	2295	19,966,318	16,13		
83	ELMVALE - 2818 - PVC - 150mm	1985	100	2060	33,864	89	197,312	248	2195	2,204,462	1,781	2295	15,970,546	12,904		
114	ELMVALE - 2819 - PVC - 150mm	1985	100	2060	46,512	89	271,007	341	2195	1,429,456	1,155	2295	10,355,901	8,368		
67	ELMVALE - 3354 - PVC - 150mm	1985	100	2060	27,336	89	159,276	200	2195	1,963,349	1,586	2295	14,223,768	11,493		
8	ELMVALE - 3355 - PVC - 150mm	1985	100	2060	38,352	89	19,018	24	2195	1,153,898	932	2295	8,359,583	6,755		
3	ELMVALE - 3358 - PVC - 150mm	1985	100	2060	1,224	89	7,132	9	2195	137,779	111	2295	998,159	807		
2	ELMVALE - 3349 - PVC - 150mm	1985	100	2060	8,16	89	4,755	6	2195	51,667	42	2295	374,310	302		
69	ELMVALE - 2806 - PVC - 150mm	1985	100	2060	18,768	89	164,030	206	2195	34,445	28	2295	249,540	202		
46	ELMVALE - 3365 - PVC - 150mm	1985	100	2060	7,752	89	109,354	138	2195	1,188,343	960	2295	8,609,123	6,956		
19	ELMVALE - 2799 - PVC - 150mm	1985	100	2060	26,928	89	45,168	57	2195	792,228	640	2295	5,739,415	4,637		
66	ELMVALE - 3363 - PVC - 150mm	1985	100	2060	4,080	89	158,899	197	2195	327,225	264	2295	2,370,628	1,915		
10	ELMVALE - 3361 - PVC - 150mm	1985	100	2060	22,032	89	128,372	30	2195	1,136,676	918	2295	8,234,813	6,654		
127	ELMVALE - 2665 - PVC - 150mm	1988	100	2060	51,816	92	320,391	357	2198	930,007	751	2295	1,247,699	1,008		
19	ELMVALE - 3331 - PVC - 150mm	1988	100	2060	7,752	92	47,932	53	2198	347,254	281	2298	2,515,729	2,033		
216	ELMVALE - 3330 - PVC - 150mm	1988	100	2060	88,128	92	25,228	28	2198	182,765	148	2298	1,324,068	1,070		
102	ELMVALE - 3324 - PVC - 150mm	1988	100	2060	41,616	92	544,916	607	2198	3,947,725	3,190	2298	28,599,871	23,109		
81	ELMVALE - 2677 - PVC - 150mm	1988	100	2060	33,048	92	257,322	287	2198	1,864,203	1,506	2298	13,505,494	10,912		
118	ELMVALE - 2660 - PVC - 150mm	1988	100	2060	48,144	92	204,344	228	2198	1,480,397	1,196	2298	10,724,951	8,666		
79	ELMVALE - 2666 - PVC - 150mm	1988	100	2060	32,232	92	297,686	332	2198	2,156,628	1,743	2298	15,624,003	12,624		
2	ELMVALE - 3329 - PVC - 150mm	1988	100	2060	8,16	92	199,298	222	2198	1,443,844	1,167	2298	10,460,138	8,452		
13	ELMVALE - 3327 - PVC - 150mm	1988	100	2060	5,304	92	5,046	6	2198	36,553	30	2298	264,814	214		
35	ELMVALE - 2847 - PVC - 150mm	1988	100	2060	14,280	92	32,796	37	2198	237,595	192	2298	1,721,289	1,391		
9	ELMVALE - 2694 - PVC - 150mm	1988	100	2060	3,672	92	88,297	98	2198	639,678	517	2298	4,634,238	3,744		
8	ELMVALE - 2691 - PVC - 150mm	1988	100	2060	8,16	92	20,182	25	2198	164,489	133	2298	1,191,661	963		
19	ELMVALE - 3333 - PVC - 150mm	1988	100	2060	7,752	92	5,046	6	2198	36,553	30	2298	1,059,254	856		
73	ELMVALE - 2673 - PVC - 150mm	1988	100	2060	29,784	92	47,932	53	2198	347,254	281	2298	2,515,729	2,033		
98	ELMVALE - 2672 - PVC - 150mm	1988	100	2060	39,984	92	184,161	205	2198	1,334,185	1,078	2298	9,665,697	7,810		
158	ELMVALE - 2675 - PVC - 150mm	1988	100	2060	64,464	92	247,200	275	2198	1,791,097	1,447	2298	12,975,867	10,485		
84	ELMVALE - 3332 - PVC - 150mm	1988	100	2060	34,272	92	398,596	444	2198	2,887,688	2,333	2298	20,920,276	16,904		
16	ELMVALE - 2688 - PVC - 150mm	1988	100	2060	6,528	92	211,912	236	2198	1,535,226	1,240	2298	11,122,172	8,987		
2	ELMVALE - 3325 - PVC - 150mm	1988	100	2060	8,16	92	40,364	45	2198	292,424	236	2298	2,118,509	1,712		
100	ELMVALE - 2693 - PVC - 150mm	1988	100	2060	40,800	92	5,046	6	2198	36,553	30	2298	264,814	214		
83	ELMVALE - 3555 - PVC - 150mm	2003	100	2103	17,544	97	252,276	281	2198	1,827,650	1,477	2298	13,240,881	10,698		
43	ELMVALE - 3558 - PVC - 150mm	2003	100	2103	22,848	97	119,769	109	2203	1,674,832	1,353	2303	12,133,589	9,804		
55	ELMVALE - 3559 - PVC - 150mm	2003	100	2103	93,432	97	155,979	142	2203	867,686	701	2303	6,286,076	5,079		
229	ELMVALE - 3561 - PVC - 150mm	2003	100	2103	93,432	97	637,841	581	2203	4,620,931	3,734	2303	33,477,010	27,049		
228	ELMVALE - 3564 - PVC - 150mm	2003	100	2103	90,576	97	635,055	579	2203	4,600,752	3,717	2303	33,330,822	26,931		
38	ELMVALE - 3556 - PVC - 150mm	2003	100	2103	15,504	97	105,843	96	2203	766,792	620	2303	5,555,137	4,489		

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Qty. (m)	Material/Diameter (mm)	Year Installed	Life Expect.	Overdue	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle		
						Year of First Replace.	No. of Payments	Replaces. Amount \$	Year of Second Replace.	No. of Payments	Replaces. Amount \$	Year of Third Replace.	No. of Payments	Replaces. Amount \$
65	ELMVALE - 3551 - PVC - 150mm	2003	100	\$	35,088	2103	97	\$ 239,538	218	1,402	1,002	100	\$ 12,572,152	\$ 10,158
86	ELMVALE - 3554 - PVC - 150mm	2003	100	\$	26,520	2103	97	\$ 181,047	165	1,060	2303	100	\$ 9,502,208	\$ 7,678
27	ELMVALE - 3553 - PVC - 150mm	2003	100	\$	11,016	2103	97	\$ 75,204	69	440	2303	100	\$ 3,947,071	\$ 3,189
29	ELMVALE - 3552 - PVC - 150mm	2003	100	\$	11,832	2103	97	\$ 80,775	74	473	2303	100	\$ 4,239,447	\$ 3,425
158	ELMVALE - 3556 - PVC - 150mm	2003	100	\$	64,464	2103	97	\$ 440,082	401	2,576	2303	100	\$ 23,097,675	\$ 18,663
146	ELMVALE - 3557 - PVC - 150mm	2003	100	\$	59,568	2103	97	\$ 406,658	371	2,380	2303	100	\$ 21,343,421	\$ 17,245
8	ELMVALE - 2786 - PVC - 150mm	1980	100	\$	3,264	2060	54	\$ 9,510	52	56	2260	100	\$ 499,107	\$ 403
10	ELMVALE - 2783 - PVC - 150mm	1980	100	\$	4,080	2060	54	\$ 11,887	65	70	2260	100	\$ 623,884	\$ 504
14	ELMVALE - 2782 - PVC - 150mm	1980	100	\$	5,712	2060	54	\$ 16,642	91	97	2260	100	\$ 873,437	\$ 706
69	ELMVALE - 2780 - PVC - 150mm	1980	100	\$	28,152	2060	54	\$ 82,020	449	480	2260	100	\$ 4,304,799	\$ 3,478
92	ELMVALE - 2779 - PVC - 150mm	1980	100	\$	37,536	2060	54	\$ 109,360	598	640	2260	100	\$ 5,739,732	\$ 4,638
19	ELMVALE - 2787 - PVC - 150mm	1980	100	\$	7,752	2060	54	\$ 22,585	124	132	2260	100	\$ 1,185,379	\$ 958
26	ELMVALE - 2829 - PVC - 150mm	1980	100	\$	10,608	2060	54	\$ 30,906	169	181	2260	100	\$ 1,622,098	\$ 1,311
83	ELMVALE - 2817 - PVC - 150mm	1980	100	\$	33,864	2060	54	\$ 98,681	540	578	2260	100	\$ 5,178,237	\$ 4,184
3	ELMVALE - 2814 - PVC - 150mm	1980	100	\$	1,224	2060	54	\$ 3,566	20	21	2260	100	\$ 187,165	\$ 151
8	ELMVALE - 2811 - PVC - 150mm	1980	100	\$	3,264	2060	54	\$ 9,510	52	56	2260	100	\$ 499,107	\$ 403
197	ELMVALE - 2810 - PVC - 150mm	1980	100	\$	80,376	2060	54	\$ 224,172	1,281	1,371	2260	100	\$ 12,290,513	\$ 9,931
7	ELMVALE - 2793 - PVC - 150mm	1980	100	\$	2,856	2060	54	\$ 8,321	46	49	2260	100	\$ 436,719	\$ 353
149	ELMVALE - 2820 - PVC - 150mm	1980	100	\$	60,792	2060	54	\$ 177,115	969	1,037	2260	100	\$ 6,929,870	\$ 5,511
19	ELMVALE - 2824 - PVC - 150mm	1980	100	\$	7,752	2060	54	\$ 22,585	124	132	2260	100	\$ 1,185,379	\$ 958
112	ELMVALE - 2825 - PVC - 150mm	1980	100	\$	45,696	2060	54	\$ 133,134	728	779	2260	100	\$ 6,987,500	\$ 5,646
2	ELMVALE - 2798 - PVC - 150mm	1980	100	\$	816	2060	54	\$ 2,377	13	14	2260	100	\$ 748,661	\$ 605
139	ELMVALE - 2758 - PVC - 150mm	1980	100	\$	56,712	2060	54	\$ 165,228	904	967	2260	100	\$ 124,777	\$ 1,007
27	ELMVALE - 2804 - PVC - 150mm	1980	100	\$	11,016	2060	54	\$ 32,095	176	182	2260	100	\$ 8,671,986	\$ 7,007
52	ELMVALE - 2733 - PVC - 150mm	1980	100	\$	21,216	2060	54	\$ 61,812	338	368	2260	100	\$ 1,684,487	\$ 1,361
39	ELMVALE - 2728 - PVC - 150mm	1980	100	\$	15,912	2060	54	\$ 46,359	254	271	2260	100	\$ 3,244,196	\$ 2,621
53	ELMVALE - 2727 - PVC - 150mm	1980	100	\$	21,624	2060	54	\$ 63,001	345	369	2260	100	\$ 2,433,147	\$ 1,966
117	ELMVALE - 2722 - PVC - 150mm	1980	100	\$	47,736	2060	54	\$ 139,077	761	814	2260	100	\$ 3,306,585	\$ 2,672
8	ELMVALE - 2720 - PVC - 150mm	1980	100	\$	3,264	2060	54	\$ 9,510	52	56	2260	100	\$ 7,299,442	\$ 5,898
9	ELMVALE - 2719 - PVC - 150mm	1980	100	\$	3,672	2060	54	\$ 10,698	59	63	2260	100	\$ 499,107	\$ 403
25	ELMVALE - 2717 - PVC - 150mm	1980	100	\$	10,200	2060	54	\$ 29,717	163	174	2260	100	\$ 561,496	\$ 454
88	ELMVALE - 2714 - PVC - 150mm	1980	100	\$	35,904	2060	54	\$ 104,605	572	612	2260	100	\$ 1,559,710	\$ 1,260
8	ELMVALE - 2713 - PVC - 150mm	1980	100	\$	3,264	2060	54	\$ 9,510	52	56	2260	100	\$ 499,107	\$ 403
39	ELMVALE - 2712 - PVC - 150mm	1980	100	\$	15,912	2060	54	\$ 46,359	254	271	2260	100	\$ 489,107	\$ 403
202	ELMVALE - 2882 - PVC - 150mm	1980	100	\$	82,416	2060	54	\$ 240,116	1,313	1,406	2260	100	\$ 2,433,147	\$ 1,966
4	ELMVALE - 2777 - PVC - 150mm	1980	100	\$	1,632	2060	54	\$ 4,755	26	28	2260	100	\$ 12,602,455	\$ 10,183
6	ELMVALE - 2747 - PVC - 150mm	1980	100	\$	2,448	2060	54	\$ 7,132	39	42	2260	100	\$ 561,496	\$ 454
6	ELMVALE - 2746 - PVC - 150mm	1980	100	\$	1,632	2060	54	\$ 4,755	26	28	2260	100	\$ 249,554	\$ 202
60	ELMVALE - 2754 - PVC - 150mm	1980	100	\$	24,480	2060	54	\$ 71,322	390	417	2260	100	\$ 374,330	\$ 302
39	ELMVALE - 2755 - PVC - 150mm	1980	100	\$	15,912	2060	54	\$ 46,359	254	271	2260	100	\$ 249,554	\$ 202
67	ELMVALE - 2756 - PVC - 150mm	1980	100	\$	27,336	2060	54	\$ 79,642	436	466	2260	100	\$ 3,743,304	\$ 3,025
88	ELMVALE - 2702 - PVC - 150mm	1980	100	\$	35,904	2060	54	\$ 104,605	572	612	2260	100	\$ 2,433,147	\$ 1,966
2	ELMVALE - 2881 - PVC - 150mm	1980	100	\$	816	2060	54	\$ 2,377	13	14	2260	100	\$ 4,180,022	\$ 3,377
125	ELMVALE - 3364 - PVC - 150mm	1980	100	\$	51,000	2060	54	\$ 148,587	813	870	2260	100	\$ 5,490,178	\$ 4,436
99	ELMVALE - 2883 - PVC - 150mm	1980	100	\$	40,392	2060	54	\$ 117,681	644	689	2260	100	\$ 7,798,549	\$ 6,301
58	ELMVALE - 2884 - PVC - 150mm	1980	100	\$	23,664	2060	54	\$ 68,944	377	404	2260	100	\$ 6,176,451	\$ 4,991
19	ELMVALE - 2885 - PVC - 150mm	1980	100	\$	7,752	2060	54	\$ 22,585	124	132	2260	100	\$ 3,618,527	\$ 2,924
11	ELMVALE - 2706 - PVC - 150mm	1980	100	\$	4,488	2060	54	\$ 13,076	72	77	2260	100	\$ 1,185,379	\$ 958
159	ELMVALE - 2708 - PVC - 150mm	1980	100	\$	64,872	2060	54	\$ 189,002	1,034	1,106	2260	100	\$ 686,272	\$ 555
6	ELMVALE - 2889 - PVC - 150mm	1980	100	\$	2,448	2060	54	\$ 7,132	39	42	2260	100	\$ 9,919,754	\$ 8,015
325	ELMVALE - 2893 - PVC - 150mm	1980	100	\$	132,600	2060	54	\$ 386,325	2,113	2,261	2260	100	\$ 20,276,227	\$ 16,383
48	ELMVALE - 2775 - PVC - 150mm	1980	100	\$	19,584	2060	54	\$ 57,057	312	334	2260	100	\$ 2,994,643	\$ 2,420

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Qty. (m)	Material/Diameter (mm)	Year Installed	Life Expect.	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle		
					Year of First Replace.	No. of Payments	Annual Amount	Year of Second Replace.	No. of Payments	Annual Amount	Year of Third Replace.	No. of Payments	Annual Amount
48	ELMVALE - 2898 - PVC - 150mm	1980	100	\$ 19,584	2060	54	\$ 57,057	2160	100	\$ 413,359	2260	100	\$ 2,994,643
112	ELMVALE - 2958 - PVC - 150mm	1980	100	\$ 45,696	2060	54	\$ 133,134	2160	100	\$ 964,500	2260	100	\$ 6,987,500
6	ELMVALE - 2997 - PVC - 150mm	1980	100	\$ 4,896	2060	54	\$ 14,264	2160	100	\$ 103,340	2260	100	\$ 748,661
12	ELMVALE - 2986 - PVC - 150mm	1980	100	\$ 2,448	2060	54	\$ 7,132	2160	100	\$ 51,670	2260	100	\$ 374,330
221	ELMVALE - 2940 - PVC - 150mm	1980	100	\$ 49,368	2060	54	\$ 143,832	2160	100	\$ 1,042,010	2260	100	\$ 7,548,995
221	ELMVALE - 2941 - PVC - 150mm	1980	100	\$ 90,168	2060	54	\$ 262,701	2160	100	\$ 1,903,176	2260	100	\$ 13,787,635
3	ELMVALE - 2945 - PVC - 150mm	1980	100	\$ 1,224	2060	54	\$ 3,566	2160	100	\$ 25,835	2260	100	\$ 187,165
22	ELMVALE - 2952 - PVC - 150mm	1980	100	\$ 8,976	2060	54	\$ 26,151	2160	100	\$ 189,456	2260	100	\$ 1,372,545
16	ELMVALE - 2953 - PVC - 150mm	1980	100	\$ 6,528	2060	54	\$ 19,019	2160	100	\$ 137,786	2260	100	\$ 988,214
218	ELMVALE - 2957 - PVC - 150mm	1980	100	\$ 88,944	2060	54	\$ 259,135	2160	100	\$ 1,877,341	2260	100	\$ 13,600,669
97	ELMVALE - 3006 - PVC - 150mm	1980	100	\$ 39,576	2060	54	\$ 115,303	2160	100	\$ 835,331	2260	100	\$ 6,051,674
3	ELMVALE - 2946 - PVC - 150mm	1980	100	\$ 1,224	2060	54	\$ 3,566	2160	100	\$ 25,835	2260	100	\$ 187,165
21	ELMVALE - 2853 - PVC - 150mm	1980	100	\$ 8,568	2060	54	\$ 24,963	2160	100	\$ 180,845	2260	100	\$ 1,310,156
7	ELMVALE - 2871 - PVC - 150mm	1980	100	\$ 2,856	2060	54	\$ 8,321	2160	100	\$ 60,282	2260	100	\$ 436,719
267	ELMVALE - 2868 - PVC - 150mm	1980	100	\$ 108,936	2060	54	\$ 317,381	2160	100	\$ 2,299,312	2260	100	\$ 16,657,701
123	ELMVALE - 2867 - PVC - 150mm	1980	100	\$ 50,184	2060	54	\$ 146,209	2160	100	\$ 1,059,234	2260	100	\$ 7,673,772
2	ELMVALE - 2865 - PVC - 150mm	1980	100	\$ 816	2060	54	\$ 2,377	2160	100	\$ 17,223	2260	100	\$ 124,777
19	ELMVALE - 2858 - PVC - 150mm	1980	100	\$ 7,752	2060	54	\$ 22,585	2160	100	\$ 163,621	2260	100	\$ 1,185,379
39	ELMVALE - 2854 - PVC - 150mm	1980	100	\$ 15,912	2060	54	\$ 46,359	2160	100	\$ 335,855	2260	100	\$ 2,433,147
10	ELMVALE - 2875 - PVC - 150mm	1980	100	\$ 4,080	2060	54	\$ 11,887	2160	100	\$ 86,117	2260	100	\$ 623,884
143	ELMVALE - 2852 - PVC - 150mm	1980	100	\$ 58,344	2060	54	\$ 169,983	2160	100	\$ 1,231,467	2260	100	\$ 8,921,540
153	ELMVALE - 2851 - PVC - 150mm	1980	100	\$ 62,424	2060	54	\$ 181,870	2160	100	\$ 1,317,583	2260	100	\$ 9,545,424
2	ELMVALE - 2848 - PVC - 150mm	1980	100	\$ 816	2060	54	\$ 2,377	2160	100	\$ 17,223	2260	100	\$ 124,777
19	ELMVALE - 2709 - PVC - 150mm	1980	100	\$ 7,752	2060	54	\$ 22,585	2160	100	\$ 163,621	2260	100	\$ 1,185,379
146	ELMVALE - 2703 - PVC - 150mm	1980	100	\$ 59,568	2060	54	\$ 173,549	2160	100	\$ 1,257,302	2260	100	\$ 9,108,705
19	ELMVALE - 2880 - PVC - 150mm	1980	100	\$ 7,752	2060	54	\$ 22,585	2160	100	\$ 163,621	2260	100	\$ 1,185,379
143	ELMVALE - 2855 - PVC - 150mm	1980	100	\$ 58,344	2060	54	\$ 169,983	2160	100	\$ 1,231,467	2260	100	\$ 8,921,540
92	ELMVALE - 2902 - PVC - 150mm	1980	100	\$ 37,536	2060	54	\$ 109,360	2160	100	\$ 792,272	2260	100	\$ 5,739,732
319	ELMVALE - 2907 - PVC - 150mm	1980	100	\$ 130,152	2060	54	\$ 379,193	2160	100	\$ 2,747,118	2260	100	\$ 19,901,897
5	ELMVALE - 2905 - PVC - 150mm	1980	100	\$ 2,040	2060	54	\$ 5,943	2160	100	\$ 43,058	2260	100	\$ 311,942
227	ELMVALE - 2872 - PVC - 150mm	1980	100	\$ 92,616	2060	54	\$ 269,833	2160	100	\$ 1,954,846	2260	100	\$ 14,162,165
3	ELMVALE - 2903 - PVC - 150mm	1980	100	\$ 1,224	2060	54	\$ 3,566	2160	100	\$ 25,835	2260	100	\$ 187,165
178	ELMVALE - 3005 - PVC - 150mm	1980	100	\$ 72,624	2060	54	\$ 211,587	2160	100	\$ 1,532,875	2260	100	\$ 11,105,134
10	ELMVALE - 2899 - PVC - 150mm	1980	100	\$ 4,080	2060	54	\$ 11,887	2160	100	\$ 86,117	2260	100	\$ 623,884
6	ELMVALE - 3560 - PVC - 150mm	1980	100	\$ 2,448	2060	54	\$ 7,132	2160	100	\$ 51,670	2260	100	\$ 374,330
80	ELMVALE - 3563 - PVC - 150mm	1980	100	\$ 32,640	2060	54	\$ 95,095	2160	100	\$ 688,932	2260	100	\$ 4,991,071
20	ELMVALE - 2926 - PVC - 150mm	1980	100	\$ 8,160	2060	54	\$ 23,774	2160	100	\$ 172,233	2260	100	\$ 1,247,768
19	ELMVALE - 2877 - PVC - 150mm	1980	100	\$ 7,752	2060	54	\$ 22,585	2160	100	\$ 163,621	2260	100	\$ 1,185,379
21	ELMVALE - 2876 - PVC - 150mm	1980	100	\$ 8,568	2060	54	\$ 24,963	2160	100	\$ 180,845	2260	100	\$ 1,310,156
24	ELMVALE - 2904 - PVC - 150mm	1980	100	\$ 9,792	2060	54	\$ 28,529	2160	100	\$ 206,680	2260	100	\$ 1,497,321
4	ELMVALE - 2805 - PVC - 150mm	1980	100	\$ 30,800	2060	54	\$ 89,152	2160	100	\$ 645,874	2260	100	\$ 4,679,129
110	ELMVALE - 2640 - PVC - 150mm	1980	100	\$ 44,880	2060	54	\$ 130,756	2160	100	\$ 947,282	2260	100	\$ 6,862,723
195	ELMVALE - 2632 - PVC - 150mm	1980	100	\$ 816	2060	54	\$ 2,377	2160	100	\$ 17,223	2260	100	\$ 124,777
9	ELMVALE - 2629 - PVC - 150mm	1980	100	\$ 79,560	2060	54	\$ 231,795	2160	100	\$ 1,679,273	2260	100	\$ 12,165,736
31	ELMVALE - 2628 - PVC - 150mm	1980	100	\$ 3,672	2060	54	\$ 10,698	2160	100	\$ 77,505	2260	100	\$ 561,496
10	ELMVALE - 2627 - PVC - 150mm	1980	100	\$ 12,648	2060	54	\$ 36,849	2160	100	\$ 266,961	2260	100	\$ 1,934,040
94	ELMVALE - 2625 - PVC - 150mm	1980	100	\$ 38,352	2060	54	\$ 111,737	2160	100	\$ 809,496	2260	100	\$ 5,864,509
11	ELMVALE - 2624 - PVC - 150mm	1980	100	\$ 44,880	2060	54	\$ 130,756	2160	100	\$ 947,282	2260	100	\$ 6,862,723
29	ELMVALE - 3567 - PVC - 150mm	1980	100	\$ 4,080	2060	54	\$ 11,887	2160	100	\$ 86,117	2260	100	\$ 623,884
111	ELMVALE - 2609 - PVC - 150mm	1980	100	\$ 45,288	2060	54	\$ 134,472	2160	100	\$ 949,738	2260	100	\$ 6,925,211
2	ELMVALE - 2892 - PVC - 150mm	1980	100	\$ 816	2060	54	\$ 2,377	2160	100	\$ 17,223	2260	100	\$ 124,777
89	ELMVALE - 2595 - PVC - 150mm	1980	100	\$ 36,312	2060	54	\$ 105,794	2160	100	\$ 766,437	2260	100	\$ 5,552,567
5	ELMVALE - 3704 - PVC - 150mm	1980	100	\$ 2,040	2060	54	\$ 5,943	2160	100	\$ 43,058	2260	100	\$ 311,942
115	ELMVALE - 3706 - PVC - 150mm	1980	100	\$ 46,920	2060	54	\$ 136,700	2160	100	\$ 990,340	2260	100	\$ 7,174,665

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Table with columns: Qty. (m), Material/Diameter (mm), Year Installed, Life Expect., Overdue, 2006 Replacement Cost, First Cycle Replace. Amount, No. of Payments, Year of First Replace., Second Cycle Replace. Amount, No. of Payments, Year of Second Replace., Third Cycle Replace. Amount, No. of Payments, Year of Third Replace., Annual Provision, Annual Provision, Annual Provision.

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 CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Qty. (m)	Material Diameter (mm)	Year Installed	Life Expect.	Overdue	2006 Replacement Cost	First Cycle Replace.			Second Cycle Replace.			Third Cycle Replace.		
						Year of First Replace.	No. of Payments	Annual Amount \$	Year of Second Replace.	No. of Payments	Annual Amount \$	Year of Third Replace.	No. of Payments	Annual Amount \$
114	SNOW VALLEY - 3300 - PVC - 150mm	1989	100		46,512	83	3	240,646 \$	2189	100	1,743,398 \$	2289	100	12,630,299 \$
29	SNOW VALLEY - 3230 - PVC - 150mm	1989	100		\$	83	3	61,217 \$	2189	100	443,496 \$	2289	100	3,212,971 \$
2	SNOW VALLEY - 3228 - PVC - 150mm	1989	100		816	83	7	4,222 \$	2189	100	30,586 \$	2289	100	221,584 \$
31	SNOW VALLEY - 3261 - PVC - 150mm	1989	100		12,648	83	105	65,439 \$	2189	100	474,082 \$	2289	100	3,434,555 \$
5	SNOW VALLEY - 3279 - PVC - 150mm	1989	100		2,040	83	17	10,555 \$	2189	100	76,465 \$	2289	100	553,960 \$
121	SNOW VALLEY - 3224 - PVC - 150mm	1989	100		49,368	83	410	255,423 \$	2189	100	1,850,448 \$	2289	100	13,405,843 \$
13	SNOW VALLEY - 3278 - PVC - 150mm	1989	100		5,304	83	44	27,442 \$	2189	100	198,808 \$	2289	100	1,440,297 \$
43	SNOW VALLEY - 3277 - PVC - 150mm	1989	100		17,544	83	146	90,770 \$	2189	100	657,597 \$	2289	100	4,764,060 \$
28	SNOW VALLEY - 3274 - PVC - 150mm	1989	100		11,424	83	95	59,106 \$	2189	100	428,203 \$	2289	100	3,102,179 \$
70	SNOW VALLEY - 3273 - PVC - 150mm	1989	100		28,560	83	237	147,765 \$	2189	100	1,070,507 \$	2289	100	7,755,447 \$
45	SNOW VALLEY - 3271 - PVC - 150mm	1989	100		19,989	83	152	94,992 \$	2189	100	688,183 \$	2289	100	4,985,644 \$
96	SNOW VALLEY - 3421 - PVC - 150mm	1989	100		39,168	83	325	202,650 \$	2189	100	1,488,124 \$	2289	100	10,636,041 \$
19	SNOW VALLEY - 3262 - PVC - 150mm	1989	100		7,552	83	64	40,108 \$	2189	100	290,566 \$	2289	100	2,105,050 \$
16	SNOW VALLEY - 3252 - PVC - 150mm	1989	100		6,528	83	54	33,775 \$	2189	100	244,687 \$	2289	100	1,772,674 \$
215	SNOW VALLEY - 3256 - PVC - 150mm	1989	100		87,720	83	728	453,851 \$	2189	100	3,287,987 \$	2289	100	23,820,300 \$
2	SNOW VALLEY - 3258 - PVC - 150mm	1989	100		816	83	7	4,222 \$	2189	100	30,586 \$	2289	100	221,584 \$
49	SNOW VALLEY - 3228 - PVC - 150mm	1989	100		19,992	83	166	103,346 \$	2189	100	749,355 \$	2289	100	5,428,813 \$
96	SNOW VALLEY - 3317 - PVC - 150mm	1989	100		39,168	83	325	202,650 \$	2189	100	1,488,124 \$	2289	100	10,636,041 \$
23	SNOW VALLEY - 3294 - PVC - 150mm	1989	100		9,384	83	78	48,551 \$	2189	100	351,738 \$	2289	100	2,548,218 \$
9	SNOW VALLEY - 3297 - PVC - 150mm	1989	100		3,672	83	30	19,998 \$	2189	100	137,637 \$	2289	100	997,129 \$
82	SNOW VALLEY - 3270 - PVC - 150mm	1989	100		33,456	83	278	173,096 \$	2189	100	1,254,023 \$	2289	100	9,084,952 \$
128	SNOW VALLEY - 3248 - PVC - 150mm	1989	100		52,224	83	434	270,199 \$	2189	100	1,957,499 \$	2289	100	14,181,388 \$
23	SNOW VALLEY - 3298 - PVC - 150mm	1989	100		9,384	83	78	48,551 \$	2189	100	351,738 \$	2289	100	2,548,218 \$
6	SNOW VALLEY - 3302 - PVC - 150mm	1989	100		2,448	83	20	12,666 \$	2189	100	91,758 \$	2289	100	664,753 \$
13	SNOW VALLEY - 3293 - PVC - 150mm	1989	100		5,304	83	44	27,442 \$	2189	100	198,808 \$	2289	100	1,440,297 \$
19	SNOW VALLEY - 3304 - PVC - 150mm	1989	100		7,552	83	64	40,108 \$	2189	100	290,566 \$	2289	100	2,105,050 \$
134	SNOW VALLEY - 3263 - PVC - 150mm	1989	100		54,672	83	454	282,865 \$	2189	100	2,049,257 \$	2289	100	14,846,141 \$
19	SNOW VALLEY - 3246 - PVC - 150mm	1989	100		7,552	83	64	40,108 \$	2189	100	290,566 \$	2289	100	2,105,050 \$
2	SNOW VALLEY - 3245 - PVC - 150mm	1989	100		816	83	7	4,222 \$	2189	100	30,586 \$	2289	100	221,584 \$
145	SNOW VALLEY - 3241 - PVC - 150mm	1989	100		59,160	83	491	306,085 \$	2189	100	2,217,479 \$	2289	100	16,064,854 \$
32	SNOW VALLEY - 3251 - PVC - 150mm	1989	100		13,056	83	108	67,550 \$	2189	100	489,375 \$	2289	100	3,545,347 \$
82	SNOW VALLEY - 3314 - PVC - 150mm	1989	100		33,456	83	278	173,096 \$	2189	100	1,254,023 \$	2289	100	9,084,952 \$
64	SNOW VALLEY - 3303 - PVC - 150mm	1989	100		26,112	83	217	135,100 \$	2189	100	978,750 \$	2289	100	7,090,694 \$
287	SNOW VALLEY - 3417 - PVC - 150mm	1989	100		117,096	83	972	605,838 \$	2189	100	4,389,080 \$	2289	100	31,797,331 \$
20	SNOW VALLEY - 3440 - PVC - 150mm	1989	100		8,160	83	68	42,219 \$	2189	100	305,859 \$	2289	100	2,215,842 \$
17	SNOW VALLEY - 3439 - PVC - 150mm	1989	100		6,936	83	58	35,886 \$	2189	100	259,980 \$	2289	100	1,883,466 \$
110	SNOW VALLEY - 3434 - PVC - 150mm	1989	100		44,880	83	373	232,203 \$	2189	100	1,682,226 \$	2289	100	12,187,130 \$
163	SNOW VALLEY - 3432 - PVC - 150mm	1989	100		66,504	83	552	344,082 \$	2189	100	2,492,753 \$	2289	100	18,059,111 \$
19	SNOW VALLEY - 3430 - PVC - 150mm	1989	100		7,552	83	64	40,108 \$	2189	100	290,566 \$	2289	100	2,105,050 \$
2	SNOW VALLEY - 3433 - PVC - 150mm	1989	100		816	83	7	4,222 \$	2189	100	30,586 \$	2289	100	221,584 \$
10	SNOW VALLEY - 3437 - PVC - 150mm	1989	100		4,080	83	34	21,109 \$	2189	100	152,930 \$	2289	100	1,107,921 \$
125	SNOW VALLEY - 3431 - PVC - 150mm	1989	100		51,000	83	423	263,867 \$	2189	100	1,911,620 \$	2289	100	13,849,012 \$
85	SNOW VALLEY - 3480 - PVC - 150mm	1989	100		34,880	83	288	179,429 \$	2189	100	1,299,902 \$	2289	100	9,417,328 \$
79	SNOW VALLEY - 3479 - PVC - 150mm	1989	100		32,232	83	268	166,764 \$	2189	100	1,208,144 \$	2289	100	8,752,575 \$
108	SNOW VALLEY - 3478 - PVC - 150mm	2003	100		44,064	97	274	300,816 \$	2203	100	2,179,304 \$	2303	100	15,788,284 \$
30	SNOW VALLEY - 3481 - PVC - 150mm	2003	100		12,240	97	76	63,560 \$	2203	100	605,362 \$	2303	100	4,385,634 \$
130	SNOW VALLEY - 3444 - PVC - 150mm	2004	100		53,040	98	323	369,335 \$	2204	100	2,675,701 \$	2304	100	19,384,504 \$
111	SNOW VALLEY - 3446 - PVC - 150mm	2004	100		45,288	98	276	315,355 \$	2204	100	2,884,637 \$	2304	100	16,551,384 \$
110	SNOW VALLEY - 3498 - PVC - 150mm	2004	100		13,464	98	274	93,514 \$	2204	100	2,884,637 \$	2304	100	16,402,273 \$
33	SNOW VALLEY - 3470 - PVC - 150mm	2004	100		14,880	98	549	67,921 \$	2204	100	679,216 \$	2304	100	4,920,682 \$
10	SNOW VALLEY - 3457 - PVC - 150mm	2004	100		4,080	98	25	28,410 \$	2204	100	205,823 \$	2304	100	1,491,116 \$
350	SNOW VALLEY - 3465 - PVC - 150mm	2004	100		142,800	98	870	894,363 \$	2204	100	7,203,809 \$	2304	100	52,189,050 \$
190	SNOW VALLEY - 3449 - PVC - 150mm	2004	100		77,520	98	473	539,797 \$	2204	100	3,910,639 \$	2304	100	28,331,199 \$
154	SNOW VALLEY - 3497 - PVC - 150mm	2004	100		62,832	98	360	437,520 \$	2204	100	3,169,676 \$	2304	100	22,963,182 \$
67	SNOW VALLEY - 3489 - PVC - 150mm	2004	100		27,336	98	167	190,350 \$	2204	100	1,379,015 \$	2304	100	9,990,475 \$
23	SNOW VALLEY - 3490 - PVC - 150mm	2004	100		9,384	98	57	46,344 \$	2204	100	473,393 \$	2304	100	3,429,566 \$
11	SNOW VALLEY - 3493 - PVC - 150mm	2004	100		4,488	98	27	31,251 \$	2204	100	226,405 \$	2304	100	1,640,227 \$

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Qty. (m)	Material/Diameter (mm)	Year Installed	Life Expect.	Life Overdue	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle		
						Year of First Replace.	No. of Payments	Replace. Amount	Year of Second Replace.	No. of Payments	Replace. Amount	Year of Third Replace.	No. of Payments	Replace. Amount
137	SNOW VALLEY - 3494 - PVC - 150mm	2004	100	\$	\$	2104	98	\$ 389,222	2204	100	\$ 2,819,777	2304	100	\$ 20,428,285
154	SNOW VALLEY - 3496 - PVC - 150mm	2004	100	\$	\$	2104	98	\$ 437,520	2204	100	\$ 3,169,676	2304	100	\$ 22,963,182
8	SNOW VALLEY - 3483 - PVC - 150mm	2004	100	\$	\$	2104	98	\$ 3,264	2204	100	\$ 164,659	2304	100	\$ 1,192,893
42	SNOW VALLEY - 3471 - PVC - 150mm	2004	100	\$	\$	2104	98	\$ 119,324	2204	100	\$ 864,457	2304	100	\$ 6,262,686
896	SNOW VALLEY - 3476 - PVC - 150mm	2004	100	\$	\$	2104	98	\$ 2,545,570	2204	100	\$ 18,441,752	2304	100	\$ 133,603,968
191	SNOW VALLEY - 3485 - PVC - 150mm	2004	100	\$	\$	2104	98	\$ 77,928	2204	100	\$ 3,931,222	2304	100	\$ 28,480,310
116	SNOW VALLEY - 3484 - PVC - 150mm	2004	100	\$	\$	2104	98	\$ 329,630	2204	100	\$ 2,387,548	2304	100	\$ 17,296,942
229	SNOW VALLEY - 3499 - PVC - 150mm	2004	100	\$	\$	2104	98	\$ 650,598	2204	100	\$ 4,713,350	2304	100	\$ 34,146,550
192	SNOW VALLEY - 3496 - PVC - 150mm	2004	100	\$	\$	2104	98	\$ 545,479	2204	100	\$ 3,951,804	2304	100	\$ 28,629,422
458	SNOW VALLEY - 3442 - PVC - 150mm	2004	100	\$	\$	2104	98	\$ 1,301,195	2204	100	\$ 9,426,699	2304	100	\$ 68,293,100
84	SNOW VALLEY - 3468 - PVC - 150mm	2004	100	\$	\$	2104	98	\$ 34,272	2204	100	\$ 1,728,914	2304	100	\$ 12,529,372
15	SNOW VALLEY - 3321 - PVC - 150mm	1988	100	\$	\$	2088	82	\$ 31,043	2188	100	\$ 224,896	2288	100	\$ 1,629,296
17	SNOW VALLEY - 3318 - PVC - 150mm	1988	100	\$	\$	2088	82	\$ 35,182	2188	100	\$ 254,883	2288	100	\$ 1,846,535
41	SNOW VALLEY - 3407 - PVC - 150mm	1988	100	\$	\$	2088	82	\$ 84,851	2188	100	\$ 614,717	2288	100	\$ 4,453,408
3	SNOW VALLEY - 3413 - PVC - 150mm	1988	100	\$	\$	2088	82	\$ 6,936	2188	100	\$ 44,979	2288	100	\$ 325,859
19	SNOW VALLEY - 3412 - PVC - 150mm	1988	100	\$	\$	2088	82	\$ 9,321	2188	100	\$ 284,869	2288	100	\$ 2,063,774
47	SNOW VALLEY - 3411 - PVC - 150mm	1988	100	\$	\$	2088	82	\$ 97,268	2188	100	\$ 704,676	2288	100	\$ 5,105,126
19	SNOW VALLEY - 3319 - PVC - 150mm	1988	100	\$	\$	2088	82	\$ 39,321	2188	100	\$ 284,869	2288	100	\$ 2,063,774
22	SNOW VALLEY - 3410 - PVC - 150mm	1988	100	\$	\$	2088	82	\$ 7,752	2188	100	\$ 50,324	2288	100	\$ 367,616
154	SNOW VALLEY - 3409 - PVC - 150mm	1988	100	\$	\$	2088	82	\$ 45,530	2188	100	\$ 329,848	2288	100	\$ 2,389,633
2	SNOW VALLEY - 3408 - PVC - 150mm	1988	100	\$	\$	2088	82	\$ 318,709	2188	100	\$ 2,308,937	2288	100	\$ 16,727,434
2	SNOW VALLEY - 3723 - PVC - 150mm	1988	100	\$	\$	2088	82	\$ 4,139	2188	100	\$ 29,986	2288	100	\$ 217,239
19	SNOW VALLEY - 3716 - PVC - 150mm	1988	100	\$	\$	2088	82	\$ 39,321	2188	100	\$ 284,869	2288	100	\$ 2,063,774
21	SNOW VALLEY - 3425 - PVC - 150mm	1988	100	\$	\$	2088	82	\$ 43,460	2188	100	\$ 314,855	2288	100	\$ 2,281,014
126	SNOW VALLEY - 3763 - PVC - 150mm	1988	100	\$	\$	2088	82	\$ 260,762	2188	100	\$ 1,899,131	2288	100	\$ 13,686,082
51	SNOW VALLEY - 3424 - PVC - 150mm	1988	100	\$	\$	2088	82	\$ 51,739	2188	100	\$ 374,827	2288	100	\$ 2,715,493
2	SNOW VALLEY - 3414 - PVC - 150mm	1988	100	\$	\$	2088	82	\$ 4,139	2188	100	\$ 29,986	2288	100	\$ 217,239
2	SNOW VALLEY - 3715 - PVC - 150mm	1988	100	\$	\$	2088	82	\$ 4,139	2188	100	\$ 29,986	2288	100	\$ 217,239
13	SNOW VALLEY - 3426 - PVC - 150mm	1988	100	\$	\$	2088	82	\$ 4,139	2188	100	\$ 29,986	2288	100	\$ 217,239
122	SNOW VALLEY - 3721 - PVC - 200mm	1989	100	\$	\$	2089	83	\$ 26,904	2189	100	\$ 194,910	2289	100	\$ 1,412,056
886	SNOW VALLEY - 3482 - PVC - 200mm	2004	100	\$	\$	2104	98	\$ 257,534	2204	100	\$ 1,865,741	2304	100	\$ 13,516,635
236	SNOW VALLEY - 3451 - PVC - 250mm	2004	100	\$	\$	2104	98	\$ 670,485	2204	100	\$ 4,857,426	2304	100	\$ 35,190,331
315	SNOW VALLEY - 3491 - PVC - 250mm	2004	100	\$	\$	2104	98	\$ 894,927	2204	100	\$ 6,483,428	2304	100	\$ 46,970,145
289	SNOW VALLEY - 3711 - PVC - 250mm	2004	100	\$	\$	2104	98	\$ 821,060	2204	100	\$ 5,948,288	2304	100	\$ 43,093,244
24	SNOW VALLEY - 3712 - PVC - 250mm	2004	100	\$	\$	2104	98	\$ 68,185	2204	100	\$ 483,976	2304	100	\$ 3,578,678
153	SNOW VALLEY - 3487 - PVC - 250mm	2004	100	\$	\$	2104	98	\$ 352,289	2204	100	\$ 2,552,207	2304	100	\$ 18,489,835
124	SNOW VALLEY - 3474 - PVC - 250mm	2004	100	\$	\$	2104	98	\$ 434,679	2204	100	\$ 3,149,094	2304	100	\$ 22,814,070
138	SNOW VALLEY - 3472 - PVC - 250mm	2004	100	\$	\$	2104	98	\$ 392,063	2204	100	\$ 2,840,359	2304	100	\$ 20,577,397
23	SNOW VALLEY - 3232 - PVC - 300mm	1989	100	\$	\$	2089	83	\$ 48,551	2189	100	\$ 351,738	2289	100	\$ 2,548,218
1	SNOW VALLEY - 3237 - PVC - 300mm	1989	100	\$	\$	2089	83	\$ 2,111	2189	100	\$ 15,293	2289	100	\$ 110,792
2	SNOW VALLEY - 3238 - PVC - 300mm	1989	100	\$	\$	2089	83	\$ 4,222	2189	100	\$ 30,586	2289	100	\$ 221,584
12	VESPREA DOWNS - 2078 - PVC - 50mm	2000	100	\$	\$	2100	94	\$ 31,496	2200	100	\$ 228,179	2300	100	\$ 1,653,073
19	VESPREA DOWNS - 2079 - PVC - 50mm	2000	100	\$	\$	2100	94	\$ 49,869	2200	100	\$ 361,283	2300	100	\$ 2,617,365
4	VESPREA DOWNS - 2073 - PVC - 100mm	2000	100	\$	\$	2100	94	\$ 10,499	2200	100	\$ 76,060	2300	100	\$ 551,024
5	VESPREA DOWNS - 2084 - PVC - 100mm	2000	100	\$	\$	2100	94	\$ 13,123	2200	100	\$ 95,074	2300	100	\$ 688,780
7	VESPREA DOWNS - 2072 - PVC - 100mm	2000	100	\$	\$	2100	94	\$ 16,373	2200	100	\$ 133,104	2300	100	\$ 964,292
4	VESPREA DOWNS - 2083 - PVC - 100mm	2000	100	\$	\$	2100	94	\$ 10,499	2200	100	\$ 76,060	2300	100	\$ 551,024
106	VESPREA DOWNS - 2094 - PVC - 150mm	2000	100	\$	\$	2100	94	\$ 278,216	2200	100	\$ 2,015,577	2300	100	\$ 14,602,141
12	VESPREA DOWNS - 2099 - PVC - 150mm	2000	100	\$	\$	2100	94	\$ 31,496	2200	100	\$ 228,179	2300	100	\$ 1,653,073
12	VESPREA DOWNS - 2120 - PVC - 150mm	2000	100	\$	\$	2100	94	\$ 2,625	2200	100	\$ 19,015	2300	100	\$ 137,756
1	VESPREA DOWNS - 2119 - PVC - 150mm	2000	100	\$	\$	2100	94	\$ 31,496	2200	100	\$ 228,179	2300	100	\$ 1,653,073
39	VESPREA DOWNS - 2118 - PVC - 150mm	2000	100	\$	\$	2100	94	\$ 102,363	2200	100	\$ 741,580	2300	100	\$ 5,372,486
4	VESPREA DOWNS - 2118 - PVC - 150mm	2000	100	\$	\$	2100	94	\$ 2,625	2200	100	\$ 19,015	2300	100	\$ 137,756
84	VESPREA DOWNS - 3171 - PVC - 150mm	2000	100	\$	\$	2100	94	\$ 220,473	2200	100	\$ 1,597,250	2300	100	\$ 11,571,508
74	VESPREA DOWNS - 2115 - PVC - 150mm	2000	100	\$	\$	2100	94	\$ 199,476	2200	100	\$ 1,445,131	2300	100	\$ 10,469,459
76	VESPREA DOWNS - 2113 - PVC - 150mm	2000	100	\$	\$	2100	94	\$ 30,192	2200	100	\$ 214,071	2300	100	\$ 1,593,947
13	VESPREA DOWNS - 2112 - PVC - 150mm	2000	100	\$	\$	2100	94	\$ 34,121	2200	100	\$ 247,193	2300	100	\$ 1,790,829

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Qty. (m)	Material/Diameter (mm)	Year Installed	Life Expect.	Overdue	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle					
						Year of First Replace.	No. of Payments	Replaces. Amount \$	Year of Second Replace.	No. of Payments	Replaces. Amount \$	Year of Third Replace.	No. of Payments	Replaces. Amount \$			
						Annual Provision	Annual Provision	Annual Provision	Annual Provision	Annual Provision							
25	VESPRADOWNS - 2098 - PVC - 150mm	2000	10,200	\$	10,200	2100	94	\$ 65,617	\$ 67	2200	100	\$ 475,372	\$ 384	2300	100	\$ 3,443,901	\$ 3,283
3	VESPRADOWNS - 2091 - PVC - 150mm	2000	1,224	\$	1,224	2100	94	\$ 7,874	\$ 8	2200	100	\$ 57,045	\$ 46	2300	100	\$ 413,268	\$ 334
1	VESPRADOWNS - 2092 - PVC - 150mm	2000	408	\$	408	2100	94	\$ 2,625	\$ 3	2200	100	\$ 19,015	\$ 15	2300	100	\$ 137,756	\$ 111
196	VESPRADOWNS - 2085 - PVC - 150mm	2000	79,968	\$	79,968	2100	94	\$ 514,437	\$ 529	2200	100	\$ 3,726,916	\$ 3,011	2300	100	\$ 27,000,185	\$ 21,816
176	VESPRADOWNS - 2106 - PVC - 150mm	2000	71,808	\$	71,808	2100	94	\$ 461,944	\$ 475	2200	100	\$ 3,346,618	\$ 2,704	2300	100	\$ 24,245,064	\$ 19,590
23	VESPRADOWNS - 2104 - PVC - 150mm	2000	9,384	\$	9,384	2100	94	\$ 60,368	\$ 62	2200	100	\$ 437,342	\$ 353	2300	100	\$ 3,168,389	\$ 2,560
290	VESPRADOWNS - 2103 - PVC - 150mm	2000	118,320	\$	118,320	2100	94	\$ 761,157	\$ 782	2200	100	\$ 5,514,314	\$ 4,456	2300	100	\$ 39,949,253	\$ 32,279
15	VESPRADOWNS - 2100 - PVC - 150mm	2000	6,120	\$	6,120	2100	94	\$ 39,370	\$ 40	2200	100	\$ 285,223	\$ 230	2300	100	\$ 2,066,341	\$ 1,670
3	VESPRADOWNS - 2111 - PVC - 150mm	2000	4,080	\$	4,080	2100	94	\$ 26,247	\$ 27	2200	100	\$ 190,149	\$ 154	2300	100	\$ 1,377,560	\$ 1,113
10	VESPRADOWNS - 2088 - PVC - 300mm	2000	7,874	\$	7,874	2100	94	\$ 2,625	\$ 3	2200	100	\$ 57,045	\$ 46	2300	100	\$ 413,268	\$ 334
1	VESPRADOWNS - 2089 - PVC - 300mm	2000	408	\$	408	2100	94	\$ 2,625	\$ 3	2200	100	\$ 19,015	\$ 15	2300	100	\$ 137,756	\$ 111
94	VESPRADOWNS - 2090 - PVC - 300mm	2000	38,352	\$	38,352	2100	94	\$ 246,720	\$ 254	2200	100	\$ 1,787,398	\$ 1,444	2300	100	\$ 12,949,068	\$ 10,463
4	VESPRADOWNS - 3176 - PVC - 300mm	1988	1,632	\$	1,632	2088	82	\$ 8,278	\$ 14	2188	100	\$ 59,972	\$ 48	2288	100	\$ 434,479	\$ 351
5	VESPRADOWNS - 3175 - PVC - 300mm	1988	2,040	\$	2,040	2088	82	\$ 10,348	\$ 17	2188	100	\$ 74,965	\$ 61	2288	100	\$ 543,099	\$ 439
6	VESPRADOWNS - 3177 - PVC - 300mm	1988	2,448	\$	2,448	2088	82	\$ 12,417	\$ 21	2188	100	\$ 89,959	\$ 73	2288	100	\$ 651,718	\$ 521
4	VESPRADOWNS - 3178 - PVC - 300mm	1988	1,632	\$	1,632	2088	82	\$ 8,278	\$ 14	2188	100	\$ 59,972	\$ 48	2288	100	\$ 434,479	\$ 351
151	PHELSPSTON - 3186 - PVC - 150mm	2003	10,200	\$	10,200	2103	97	\$ 420,585	\$ 383	2203	100	\$ 3,046,989	\$ 2,462	2303	100	\$ 22,074,360	\$ 17,836
24	PHELSPSTON - 3184 - PVC - 150mm	2003	9,792	\$	9,792	2103	97	\$ 66,848	\$ 61	2203	100	\$ 484,290	\$ 391	2303	100	\$ 3,508,508	\$ 2,835
16	PHELSPSTON - 3189 - PVC - 150mm	2003	6,528	\$	6,528	2103	97	\$ 44,565	\$ 21	2203	100	\$ 322,860	\$ 245	2303	100	\$ 2,192,817	\$ 1,772
30	PHELSPSTON - 3197 - PVC - 150mm	2003	12,240	\$	12,240	2103	97	\$ 83,560	\$ 76	2203	100	\$ 605,362	\$ 489	2303	100	\$ 4,356,634	\$ 3,544
15	PHELSPSTON - 3185 - PVC - 150mm	2003	4,896	\$	4,896	2104	98	\$ 34,092	\$ 30	2204	100	\$ 246,988	\$ 200	2304	100	\$ 1,789,339	\$ 1,446
12	PHELSPSTON - 3520 - PVC - 150mm	2004	4,896	\$	4,896	2104	98	\$ 34,092	\$ 30	2204	100	\$ 246,988	\$ 200	2304	100	\$ 1,789,339	\$ 1,446
7	PHELSPSTON - 3519 - PVC - 150mm	2004	2,856	\$	2,856	2104	98	\$ 19,877	\$ 17	2204	100	\$ 144,076	\$ 116	2304	100	\$ 1,043,781	\$ 843
9	PHELSPSTON - 3517 - PVC - 150mm	2004	3,672	\$	3,672	2104	98	\$ 25,569	\$ 22	2204	100	\$ 185,241	\$ 150	2304	100	\$ 1,342,004	\$ 1,084
67	PHELSPSTON - 3514 - PVC - 150mm	2004	27,336	\$	27,336	2104	98	\$ 190,350	\$ 167	2204	100	\$ 1,379,015	\$ 1,114	2304	100	\$ 9,990,475	\$ 8,072
6	PHELSPSTON - 3193 - PVC - 150mm	2003	2,448	\$	2,448	2103	97	\$ 16,712	\$ 15	2203	100	\$ 121,072	\$ 98	2303	100	\$ 877,427	\$ 709
32	PHELSPSTON - 3192 - PVC - 150mm	2003	13,056	\$	13,056	2103	97	\$ 89,131	\$ 81	2203	100	\$ 645,720	\$ 522	2303	100	\$ 4,678,010	\$ 3,780
137	PHELSPSTON - 3196 - PVC - 150mm	2003	55,896	\$	55,896	2103	97	\$ 381,590	\$ 348	2203	100	\$ 2,764,487	\$ 2,234	2303	100	\$ 20,027,731	\$ 16,182
24	PHELSPSTON - 3191 - PVC - 150mm	2003	49,776	\$	49,776	2103	97	\$ 339,810	\$ 310	2203	100	\$ 2,461,806	\$ 1,989	2303	100	\$ 17,834,913	\$ 14,411
162	PHELSPSTON - 3216 - PVC - 150mm	2003	66,096	\$	66,096	2103	97	\$ 451,224	\$ 411	2203	100	\$ 3,268,956	\$ 2,641	2303	100	\$ 23,682,426	\$ 19,135
4	PHELSPSTON - 3181 - PVC - 150mm	2003	1,632	\$	1,632	2103	97	\$ 11,141	\$ 10	2203	100	\$ 80,715	\$ 65	2303	100	\$ 584,751	\$ 472
79	PHELSPSTON - 3182 - PVC - 150mm	2003	32,232	\$	32,232	2103	97	\$ 220,041	\$ 200	2203	100	\$ 1,594,120	\$ 1,288	2303	100	\$ 11,548,837	\$ 9,331
9	PHELSPSTON - 3195 - PVC - 150mm	2003	8,160	\$	8,160	2103	97	\$ 55,707	\$ 51	2203	100	\$ 403,575	\$ 326	2303	100	\$ 2,923,756	\$ 2,362
20	PHELSPSTON - 3201 - PVC - 150mm	2003	64,872	\$	64,872	2103	97	\$ 442,868	\$ 404	2203	100	\$ 3,208,419	\$ 2,592	2303	100	\$ 23,243,863	\$ 18,781
159	PHELSPSTON - 3212 - PVC - 150mm	2003	15,504	\$	15,504	2103	97	\$ 105,843	\$ 96	2203	100	\$ 786,792	\$ 620	2303	100	\$ 5,555,137	\$ 4,489
38	PHELSPSTON - 3202 - PVC - 150mm	2003	6,120	\$	6,120	2103	97	\$ 41,780	\$ 38	2203	100	\$ 302,681	\$ 245	2303	100	\$ 2,192,817	\$ 1,772
15	PHELSPSTON - 3217 - PVC - 150mm	2003	50,592	\$	50,592	2103	97	\$ 345,381	\$ 315	2203	100	\$ 2,502,164	\$ 2,022	2303	100	\$ 18,127,289	\$ 14,647
124	PHELSPSTON - 3215 - PVC - 150mm	2003	8,568	\$	8,568	2103	97	\$ 58,492	\$ 53	2203	100	\$ 423,753	\$ 342	2303	100	\$ 3,089,944	\$ 2,481
21	PHELSPSTON - 3214 - PVC - 150mm	2003	11,016	\$	11,016	2103	97	\$ 75,204	\$ 69	2203	100	\$ 544,626	\$ 440	2303	100	\$ 3,947,071	\$ 3,189
27	PHELSPSTON - 3205 - PVC - 150mm	2003	42,024	\$	42,024	2103	97	\$ 286,889	\$ 261	2203	100	\$ 2,078,410	\$ 1,679	2303	100	\$ 15,057,345	\$ 12,166
103	PHELSPSTON - 3219 - PVC - 150mm	2003	12,240	\$	12,240	2103	97	\$ 83,560	\$ 76	2203	100	\$ 605,362	\$ 489	2303	100	\$ 4,356,634	\$ 3,544
30	PHELSPSTON - 3207 - PVC - 150mm	2003	8,568	\$	8,568	2103	97	\$ 58,492	\$ 53	2203	100	\$ 423,753	\$ 342	2303	100	\$ 3,089,944	\$ 2,481
25	PHELSPSTON - 3203 - PVC - 150mm	2003	10,200	\$	10,200	2103	97	\$ 69,633	\$ 62	2203	100	\$ 514,558	\$ 416	2303	100	\$ 3,654,695	\$ 2,953
30	PHELSPSTON - 3210 - PVC - 150mm	2003	103,224	\$	103,224	2073	67	\$ 389,038	\$ 1,212	2173	100	\$ 2,818,444	\$ 2,277	2273	100	\$ 3,727,789	\$ 3,012
253	MINISING - 3117 - PVC - 38mm	1992	7,752	\$	7,752	2092	86	\$ 42,563	\$ 60	2192	100	\$ 308,351	\$ 249	2292	100	\$ 2,233,896	\$ 1,805
29	MINISING - 3032 - PVC - 150mm	1992	11,832	\$	11,832	2092	86	\$ 64,862	\$ 92	2192	100	\$ 470,641	\$ 380	2292	100	\$ 3,409,630	\$ 2,755
12	MINISING - 3030 - PVC - 150mm	1992	4,896	\$	4,896	2092	86	\$ 27,297	\$ 38	2192	100	\$ 194,748	\$ 157	2292	100	\$ 1,410,881	\$ 1,140
122	MINISING - 3027 - PVC - 150mm	1992	49,776	\$	49,776	2092	86	\$ 339,810	\$ 310	2192	100	\$ 2,461,806	\$ 1,989	2292	100	\$ 14,343,962	\$ 11,590
96	MINISING - 3041 - PVC - 150mm	1992	39,168	\$	39,168	2092	86	\$ 215,053	\$ 305	2192	100	\$ 1,567,985	\$ 1,259	2292	100	\$ 11,287,952	\$ 9,120
131	MINISING - 3367 - PVC - 150mm	1992	53,448	\$	53,448	2092	86	\$ 293,458	\$ 417	2192	100	\$ 2,126,001	\$ 1,718	2292	100	\$ 15,402,123	\$ 12,445

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Qty. (m)	Material/Diameter (mm)	Year Installed	Life Expect.	Overdue	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle		
						Year of First Replace.	No. of Payments	Annual Amount	Year of Second Replace.	No. of Payments	Annual Amount	Year of Third Replace.	No. of Payments	Annual Amount
334	MNISING - 3051 - PVC - 150mm	1992	100		\$ 136,272	2092	86	\$ 745,206	2192	100	\$ 5,420,490	2292	100	\$ 39,289,535
19	MNISING - 3386 - PVC - 150mm	1992	100		\$ 7,752	2092	86	\$ 42,563	2192	100	\$ 308,351	2292	100	\$ 2,233,696
22	MNISING - 3040 - PVC - 150mm	1992	100		\$ 8,976	2092	86	\$ 49,283	2192	100	\$ 357,038	2292	100	\$ 2,586,616
6	MNISING - 3046 - PVC - 150mm	1992	100		\$ 2,448	2092	86	\$ 13,441	2192	100	\$ 97,374	2292	100	\$ 705,441
132	MNISING - 3047 - PVC - 150mm	1992	100		\$ 53,856	2092	86	\$ 295,698	2192	100	\$ 2,142,230	2292	100	\$ 15,519,696
100	MNISING - 3049 - PVC - 150mm	1992	100		\$ 40,800	2092	86	\$ 224,014	2192	100	\$ 1,622,901	2292	100	\$ 11,757,346
229	MNISING - 3369 - PVC - 150mm	1992	100		\$ 93,432	2092	86	\$ 512,992	2192	100	\$ 3,716,444	2292	100	\$ 26,924,322
25	MNISING - 3050 - PVC - 150mm	1992	100		\$ 10,200	2092	86	\$ 56,003	2192	100	\$ 405,725	2292	100	\$ 2,939,336
6	MNISING - 3366 - PVC - 150mm	1992	100		\$ 2,448	2092	86	\$ 13,441	2192	100	\$ 97,374	2292	100	\$ 705,441
22	MNISING - 3052 - PVC - 150mm	1992	100		\$ 8,976	2092	86	\$ 49,283	2192	100	\$ 357,038	2292	100	\$ 2,586,616
23	MNISING - 3043 - PVC - 150mm	1992	100		\$ 9,384	2092	86	\$ 51,523	2192	100	\$ 373,267	2292	100	\$ 2,704,190
7	MNISING - 3058 - PVC - 150mm	1992	100		\$ 2,856	2092	86	\$ 15,681	2192	100	\$ 113,603	2292	100	\$ 823,014
10	MNISING - 3059 - PVC - 150mm	1992	100		\$ 4,080	2092	86	\$ 22,401	2192	100	\$ 162,290	2292	100	\$ 1,175,735
104	MNISING - 3060 - PVC - 150mm	1992	100		\$ 42,432	2092	86	\$ 232,974	2192	100	\$ 1,687,817	2292	100	\$ 12,227,640
296	MNISING - 3056 - PVC - 150mm	1992	100		\$ 120,768	2092	86	\$ 663,081	2192	100	\$ 4,803,788	2292	100	\$ 34,801,743
131	MNISING - 3368 - PVC - 150mm	1992	100		\$ 53,448	2092	86	\$ 293,458	2192	100	\$ 2,126,001	2292	100	\$ 15,402,123
43	MNISING - 3376 - PVC - 150mm	2002	100		\$ 17,544	2102	96	\$ 117,421	2202	100	\$ 850,672	2302	100	\$ 6,162,820
51	MNISING - 3377 - PVC - 150mm	2002	100		\$ 20,808	2102	96	\$ 139,267	2202	100	\$ 1,008,937	2302	100	\$ 7,309,391
151	MNISING - 3370 - PVC - 150mm	1973	100		\$ 25,296	2073	67	\$ 95,337	2173	100	\$ 690,686	2273	100	\$ 5,003,774
342	MNISING - 3091 - PVC - 150mm	1973	100		\$ 139,536	2073	67	\$ 525,893	2173	100	\$ 3,809,912	2273	100	\$ 27,601,465
19	MNISING - 3090 - PVC - 150mm	1973	100		\$ 7,752	2073	67	\$ 29,216	2173	100	\$ 211,662	2273	100	\$ 1,533,415
37	MNISING - 3088 - PVC - 150mm	1973	100		\$ 15,096	2073	67	\$ 56,895	2173	100	\$ 412,183	2273	100	\$ 2,986,123
155	MNISING - 3087 - PVC - 150mm	1973	100		\$ 63,240	2073	67	\$ 238,344	2173	100	\$ 1,726,715	2273	100	\$ 12,509,436
6	MNISING - 3375 - PVC - 150mm	1973	100		\$ 2,448	2073	67	\$ 9,226	2173	100	\$ 66,841	2273	100	\$ 484,236
119	MNISING - 3096 - PVC - 150mm	1973	100		\$ 48,552	2073	67	\$ 182,986	2173	100	\$ 1,325,671	2273	100	\$ 9,604,018
39	MNISING - 3372 - PVC - 150mm	1973	100		\$ 15,912	2073	67	\$ 59,970	2173	100	\$ 434,464	2273	100	\$ 3,147,535
115	MNISING - 3098 - PVC - 150mm	1973	100		\$ 6,120	2073	67	\$ 23,066	2173	100	\$ 167,101	2273	100	\$ 1,210,591
134	MNISING - 3110 - PVC - 150mm	1973	100		\$ 54,672	2073	67	\$ 206,052	2173	100	\$ 1,492,773	2273	100	\$ 10,814,609
97	MNISING - 3077 - PVC - 150mm	1973	100		\$ 39,576	2073	67	\$ 176,836	2173	100	\$ 1,281,111	2273	100	\$ 9,281,194
30	MNISING - 3071 - PVC - 150mm	1973	100		\$ 12,240	2073	67	\$ 46,131	2173	100	\$ 334,203	2273	100	\$ 2,421,181
72	MNISING - 3070 - PVC - 150mm	1973	100		\$ 29,376	2073	67	\$ 110,714	2173	100	\$ 802,087	2273	100	\$ 5,810,835
60	MNISING - 3068 - PVC - 150mm	1973	100		\$ 24,480	2073	67	\$ 92,262	2173	100	\$ 688,406	2273	100	\$ 4,842,362
39	MNISING - 3374 - PVC - 150mm	1973	100		\$ 15,096	2073	67	\$ 56,895	2173	100	\$ 412,183	2273	100	\$ 3,147,535
86	MNISING - 3708 - PVC - 150mm	1973	100		\$ 35,088	2073	67	\$ 132,242	2173	100	\$ 958,048	2273	100	\$ 2,986,123
2	MNISING - 3128 - PVC - 150mm	1973	100		\$ 816	2073	67	\$ 3,075	2173	100	\$ 22,280	2273	100	\$ 161,412
19	MNISING - 3128 - PVC - 150mm	1973	100		\$ 7,752	2073	67	\$ 29,216	2173	100	\$ 211,662	2273	100	\$ 1,533,415
4	MNISING - 3126 - PVC - 150mm	1973	100		\$ 5,304	2073	67	\$ 19,990	2173	100	\$ 144,821	2273	100	\$ 1,049,178
5	MNISING - 3092 - PVC - 150mm	1973	100		\$ 2,040	2073	67	\$ 7,689	2173	100	\$ 55,700	2273	100	\$ 403,530
33	MNISING - 3115 - PVC - 150mm	1973	100		\$ 13,464	2073	67	\$ 50,744	2173	100	\$ 367,623	2273	100	\$ 2,663,299
17	MNISING - 3707 - PVC - 150mm	1973	100		\$ 6,528	2073	67	\$ 26,141	2173	100	\$ 189,382	2273	100	\$ 1,372,003
16	MNISING - 3108 - PVC - 150mm	1973	100		\$ 45,288	2073	67	\$ 170,685	2173	100	\$ 1,236,550	2273	100	\$ 8,958,370
111	MNISING - 3107 - PVC - 150mm	1973	100		\$ 1,632	2073	67	\$ 6,151	2173	100	\$ 44,560	2273	100	\$ 322,824
4	MNISING - 3105 - PVC - 150mm	1973	100		\$ 5,304	2073	67	\$ 19,990	2173	100	\$ 144,821	2273	100	\$ 1,049,178
16	MNISING - 3104 - PVC - 150mm	1973	100		\$ 7,752	2073	67	\$ 29,216	2173	100	\$ 211,662	2273	100	\$ 1,533,415
19	MNISING - 3103 - PVC - 150mm	1973	100		\$ 6,528	2073	67	\$ 24,603	2173	100	\$ 178,242	2273	100	\$ 1,291,297
16	MNISING - 3099 - PVC - 150mm	1973	100		\$ 6,528	2073	67	\$ 24,603	2173	100	\$ 178,242	2273	100	\$ 1,291,297
77	MNISING - 3125 - PVC - 150mm	1973	100		\$ 31,416	2073	67	\$ 118,403	2173	100	\$ 77,981	2273	100	\$ 564,942
85	MNISING - 3384 - PVC - 150mm	1973	100		\$ 28,152	2073	67	\$ 106,101	2173	100	\$ 788,666	2273	100	\$ 5,568,717
69	MNISING - 3011 - PVC - 150mm	1973	100		\$ 28,152	2073	67	\$ 106,101	2173	100	\$ 788,666	2273	100	\$ 5,568,717

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Qty. (m)	Material/Diameter (mm)	Year Installed	Life Expect.	Overdue	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle		
						Year of First Replace.	No. of Payments	Replace. Amount \$	Year of Second Replace.	No. of Payments	Replace. Amount \$	Year of Third Replace.	No. of Payments	Replace. Amount \$
15	MINISING - 3083 - PVC - 150mm	1973	100	\$	6,120	2073	67	\$ 23,066	2173	100	\$ 167,101	2273	100	\$ 1,210,591
51	MINISING - 3111 - PVC - 150mm	1973	100	\$	75,423	2073	67	\$ 78,423	2173	100	\$ 568,145	2273	100	\$ 4,116,008
20	MINISING - 3383 - PVC - 150mm	1973	100	\$	8,160	2073	67	\$ 30,754	2173	100	\$ 222,802	2273	100	\$ 1,614,121
285	MINISING - 3122 - PVC - 150mm	1973	100	\$	116,280	2073	67	\$ 438,245	2173	100	\$ 3,174,927	2273	100	\$ 23,001,221
41	MINISING - 3390 - PVC - 150mm	1973	100	\$	16,728	2073	67	\$ 63,046	2173	100	\$ 456,744	2273	100	\$ 3,308,948
18	MINISING - 3389 - PVC - 150mm	1973	100	\$	7,344	2073	67	\$ 27,679	2173	100	\$ 200,522	2273	100	\$ 1,452,709
161	MINISING - 3385 - PVC - 150mm	1973	100	\$	65,688	2073	67	\$ 247,570	2173	100	\$ 1,793,555	2273	100	\$ 12,993,672
43	MINISING - 3382 - PVC - 150mm	1973	100	\$	17,544	2073	67	\$ 66,121	2173	100	\$ 479,024	2273	100	\$ 3,470,360
92	MINISING - 3387 - PVC - 150mm	1973	100	\$	37,536	2073	67	\$ 141,468	2173	100	\$ 1,024,889	2273	100	\$ 7,424,955
20	MINISING - 3380 - PVC - 150mm	1973	100	\$	8,160	2073	67	\$ 30,754	2173	100	\$ 222,802	2273	100	\$ 1,614,121
125	MINISING - 3013 - PVC - 150mm	1973	100	\$	51,000	2073	67	\$ 192,213	2173	100	\$ 1,392,512	2273	100	\$ 10,088,255
10	MINISING - 3014 - PVC - 150mm	1973	100	\$	4,080	2073	67	\$ 15,377	2173	100	\$ 111,401	2273	100	\$ 807,060
8	MINISING - 3016 - PVC - 150mm	1973	100	\$	2,868	2073	67	\$ 10,917	2173	100	\$ 89,121	2273	100	\$ 645,648
71	MINISING - 3018 - PVC - 150mm	1973	100	\$	28,968	2073	67	\$ 109,177	2173	100	\$ 790,947	2273	100	\$ 5,730,129
221	MINISING - 3019 - PVC - 150mm	1973	100	\$	90,168	2073	67	\$ 339,832	2173	100	\$ 2,461,961	2273	100	\$ 17,836,034
43	MINISING - 3388 - PVC - 150mm	1973	100	\$	17,544	2073	67	\$ 66,121	2173	100	\$ 479,024	2273	100	\$ 3,470,360
9	MINISING - 3022 - PVC - 150mm	1973	100	\$	3,672	2073	67	\$ 13,839	2173	100	\$ 100,261	2273	100	\$ 726,354
6	HILLSDALE - 2438 - DI - 300mm	1995	100	\$	2,448	2095	89	\$ 14,264	2195	100	\$ 103,334	2295	100	\$ 748,619
10	HILLSDALE - 2428 - PVC - 100mm	1995	100	\$	4,896	2095	89	\$ 28,527	2195	100	\$ 206,668	2295	100	\$ 1,497,239
10	HILLSDALE - 2432 - PVC - 100mm	1995	100	\$	4,896	2095	89	\$ 28,527	2195	100	\$ 206,668	2295	100	\$ 1,497,239
45	HILLSDALE - 2439 - PVC - 100mm	1995	100	\$	18,360	2095	89	\$ 106,976	2195	100	\$ 775,006	2295	100	\$ 5,614,645
45	HILLSDALE - 2439 - PVC - 100mm	1995	100	\$	18,360	2095	89	\$ 106,976	2195	100	\$ 775,006	2295	100	\$ 5,614,645
14	HILLSDALE - 2133 - PVC - 150mm	1995	100	\$	5,712	2095	89	\$ 33,282	2195	100	\$ 241,113	2295	100	\$ 1,746,779
23	HILLSDALE - 2377 - PVC - 150mm	1995	100	\$	9,384	2095	89	\$ 54,677	2195	100	\$ 396,114	2295	100	\$ 2,869,708
21	HILLSDALE - 2354 - PVC - 150mm	1995	100	\$	8,568	2095	89	\$ 49,922	2195	100	\$ 361,670	2295	100	\$ 2,620,168
35	HILLSDALE - 2353 - PVC - 150mm	1995	100	\$	14,280	2095	89	\$ 83,204	2195	100	\$ 602,783	2295	100	\$ 4,366,946
11	HILLSDALE - 2348 - PVC - 150mm	1995	100	\$	4,488	2095	89	\$ 26,150	2195	100	\$ 189,446	2295	100	\$ 1,372,469
11	HILLSDALE - 2348 - PVC - 150mm	1995	100	\$	4,488	2095	89	\$ 26,150	2195	100	\$ 189,446	2295	100	\$ 1,372,469
190	HILLSDALE - 2122 - PVC - 150mm	1995	100	\$	10,200	2095	89	\$ 59,431	2195	100	\$ 430,559	2295	100	\$ 3,119,247
156	HILLSDALE - 2343 - PVC - 150mm	1995	100	\$	77,520	2095	89	\$ 451,678	2195	100	\$ 3,272,248	2295	100	\$ 23,706,280
99	HILLSDALE - 2368 - PVC - 150mm	1995	100	\$	63,648	2095	89	\$ 370,852	2195	100	\$ 2,686,688	2295	100	\$ 19,464,103
44	HILLSDALE - 2375 - PVC - 150mm	1995	100	\$	15,912	2095	89	\$ 92,713	2195	100	\$ 671,672	2295	100	\$ 4,866,026
99	HILLSDALE - 2368 - PVC - 150mm	1995	100	\$	40,392	2095	89	\$ 235,348	2195	100	\$ 1,705,013	2295	100	\$ 12,352,219
44	HILLSDALE - 2375 - PVC - 150mm	1995	100	\$	17,952	2095	89	\$ 104,599	2195	100	\$ 688,894	2295	100	\$ 4,980,796
1	HILLSDALE - 2345 - PVC - 150mm	1995	100	\$	16,320	2095	89	\$ 95,090	2195	100	\$ 688,894	2295	100	\$ 4,980,796
145	HILLSDALE - 3533 - PVC - 150mm	1995	100	\$	4,08	2095	89	\$ 2,377	2195	100	\$ 17,222	2295	100	\$ 124,770
6	HILLSDALE - 3536 - PVC - 150mm	1995	100	\$	59,160	2095	89	\$ 344,702	2195	100	\$ 2,497,242	2295	100	\$ 18,091,634
11	HILLSDALE - 3537 - PVC - 150mm	1995	100	\$	2,448	2095	89	\$ 14,264	2195	100	\$ 103,334	2295	100	\$ 748,619
6	HILLSDALE - 3537 - PVC - 150mm	1995	100	\$	4,488	2095	89	\$ 26,150	2195	100	\$ 189,446	2295	100	\$ 1,372,469
133	HILLSDALE - 2132 - PVC - 150mm	1995	100	\$	2,448	2095	89	\$ 14,264	2195	100	\$ 103,334	2295	100	\$ 748,619
1	HILLSDALE - 2447 - PVC - 150mm	1995	100	\$	4,08	2095	89	\$ 2,377	2195	100	\$ 17,222	2295	100	\$ 124,770
260	HILLSDALE - 2446 - PVC - 150mm	1995	100	\$	106,080	2095	89	\$ 618,088	2195	100	\$ 4,477,813	2295	100	\$ 32,440,172
133	HILLSDALE - 3523 - PVC - 150mm	1998	100	\$	54,264	2098	92	\$ 335,527	2198	100	\$ 2,430,775	2298	100	\$ 17,610,106
538	HILLSDALE - 2238 - PVC - 150mm	1998	100	\$	219,504	2098	92	\$ 1,357,245	2198	100	\$ 9,832,760	2298	100	\$ 71,234,863
2	HILLSDALE - 3524 - PVC - 150mm	1998	100	\$	816	2098	92	\$ 5,046	2198	100	\$ 36,553	2298	100	\$ 264,814
1	HILLSDALE - 3392 - PVC - 150mm	1998	100	\$	4,896	2098	92	\$ 2,523	2198	100	\$ 16,277	2298	100	\$ 132,407
12	HILLSDALE - 2249 - PVC - 150mm	1998	100	\$	4,896	2098	92	\$ 2,523	2198	100	\$ 16,277	2298	100	\$ 132,407
4	HILLSDALE - 3527 - PVC - 150mm	1998	100	\$	1,632	2098	92	\$ 10,091	2198	100	\$ 73,106	2298	100	\$ 529,627
22	HILLSDALE - 2245 - PVC - 150mm	1998	100	\$	8,976	2098	92	\$ 55,501	2198	100	\$ 402,083	2298	100	\$ 2,912,950
308	HILLSDALE - 3525 - PVC - 150mm	1998	100	\$	125,868	2098	92	\$ 777,010	2198	100	\$ 5,629,163	2298	100	\$ 40,781,297
32	HILLSDALE - 2244 - PVC - 150mm	1998	100	\$	13,056	2098	92	\$ 80,728	2198	100	\$ 584,848	2298	100	\$ 4,237,018
14	HILLSDALE - 2238 - PVC - 150mm	2001	100	\$	5,712	2101	95	\$ 37,480	2201	100	\$ 271,532	2301	100	\$ 1,967,156
62	HILLSDALE - 2285 - PVC - 150mm	2001	100	\$	25,296	2101	95	\$ 165,985	2201	100	\$ 1,202,501	2301	100	\$ 8,711,692
7	HILLSDALE - 2266 - PVC - 150mm	2001	100	\$	22,848	2101	95	\$ 18,740	2201	100	\$ 135,766	2301	100	\$ 983,578
56	HILLSDALE - 2256 - PVC - 150mm	2001	100	\$	22,848	2101	95	\$ 149,922	2201	100	\$ 1,086,130	2301	100	\$ 7,868,625
183	HILLSDALE - 2356 - PVC - 150mm	2001	100	\$	74,664	2101	95	\$ 489,923	2201	100	\$ 3,549,317	2301	100	\$ 25,713,543

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Table with columns: Qty. (m), Material Diameter (mm), Year Installed, Life Expect., 2006 Replacement Cost, Overdue, First Cycle (Year of First Replace, No. of Payments, Replaces. Amount, Annual Provision), Second Cycle (Year of Second Replace, No. of Payments, Replaces. Amount, Annual Provision), Third Cycle (Year of Third Replace, No. of Payments, Replaces. Amount, Annual Provision).

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Qty. (m)	Material/Diameter (mm)	Year Installed	Life Expect.	Overdue	2006 Replacement Cost			First Cycle Replace.			Second Cycle Replace.			Third Cycle Replace.			
					Replacement Cost	Year of First Replace.	No. of Payments	Amount \$	Annual Provision	Year of Second Replace.	No. of Payments	Amount \$	Annual Provision	Year of Third Replace.	No. of Payments	Amount \$	Annual Provision
312	HILLSDALE -2397- P.V.C - 150mm	1995	100	\$	127,296	2095	89	\$ 741,703	\$ 933	2195	100	\$ 5,373,376	\$ 4,342	2295	100	\$ 38,928,207	\$ 31,454
643	HILLSDALE -2396- P.V.C - 150mm	1995	100	\$	262,344	2095	89	\$ 1,524,574	\$ 1,922	2195	100	\$ 11,073,977	\$ 8,948	2295	100	\$ 80,227,041	\$ 64,823
6	HILLSDALE -2395- P.V.C - 150mm	1995	100	\$	2,448	2095	89	\$ 14,264	\$ 18	2195	100	\$ 103,334	\$ 83	2295	100	\$ 748,619	\$ 605
209	HILLSDALE -2393- P.V.C - 150mm	1995	100	\$	85,272	2095	89	\$ 496,846	\$ 625	2195	100	\$ 3,599,473	\$ 2,908	2295	100	\$ 26,076,908	\$ 21,070
16	HILLSDALE -2389- P.V.C - 150mm	1995	100	\$	6,528	2095	89	\$ 35,036	\$ 48	2195	100	\$ 275,558	\$ 223	2295	100	\$ 1,996,318	\$ 1,613
28	HILLSDALE -2389- P.V.C - 150mm	1995	100	\$	11,424	2095	89	\$ 66,563	\$ 84	2195	100	\$ 482,226	\$ 390	2295	100	\$ 3,493,557	\$ 2,823
2	HILLSDALE -2416- P.V.C - 150mm	1995	100	\$	816	2095	89	\$ 4,755	\$ 6	2195	100	\$ 34,445	\$ 28	2295	100	\$ 249,540	\$ 202
119	HILLSDALE -2391- P.V.C - 150mm	1995	100	\$	48,552	2095	89	\$ 282,893	\$ 356	2195	100	\$ 2,049,461	\$ 1,656	2295	100	\$ 14,847,617	\$ 11,997
3	HILLSDALE -2221- P.V.C - 200mm	1994	100	\$	1,224	2094	88	\$ 6,992	\$ 9	2194	100	\$ 50,654	\$ 41	2294	100	\$ 366,970	\$ 297
8	HILLSDALE -2448- P.V.C - 200mm	1994	100	\$	3,264	2094	88	\$ 19,645	\$ 24	2194	100	\$ 135,077	\$ 109	2294	100	\$ 978,587	\$ 791
3	HILLSDALE -2451- P.V.C - 200mm	1994	100	\$	1,224	2094	88	\$ 6,992	\$ 9	2194	100	\$ 50,654	\$ 41	2294	100	\$ 366,970	\$ 297
8	HILLSDALE -2138- P.V.C - 200mm	1995	100	\$	3,264	2095	89	\$ 19,018	\$ 24	2195	100	\$ 137,779	\$ 111	2295	100	\$ 998,159	\$ 807
75	HILLSDALE -2138- P.V.C - 200mm	1995	100	\$	30,600	2095	89	\$ 178,294	\$ 224	2195	100	\$ 1,291,677	\$ 1,044	2295	100	\$ 9,357,742	\$ 7,561
13	HILLSDALE -2154- P.V.C - 200mm	1995	100	\$	5,304	2095	89	\$ 30,904	\$ 39	2195	100	\$ 223,891	\$ 181	2295	100	\$ 1,622,009	\$ 1,311
291	HILLSDALE -2150- P.V.C - 200mm	1995	100	\$	118,728	2095	89	\$ 691,781	\$ 870	2195	100	\$ 5,011,706	\$ 4,049	2295	100	\$ 36,308,039	\$ 29,337
57	HILLSDALE -3530- P.V.C - 200mm	1995	100	\$	23,256	2095	89	\$ 135,503	\$ 170	2195	100	\$ 981,674	\$ 793	2295	100	\$ 7,111,884	\$ 5,746
2	HILLSDALE -3534- P.V.C - 200mm	1995	100	\$	816	2095	89	\$ 4,755	\$ 6	2195	100	\$ 34,445	\$ 28	2295	100	\$ 249,540	\$ 202
4	HILLSDALE -3538- P.V.C - 200mm	1995	100	\$	1,632	2095	89	\$ 9,509	\$ 12	2195	100	\$ 68,889	\$ 56	2295	100	\$ 499,080	\$ 403
81	HILLSDALE -2271- P.V.C - 200mm	1998	100	\$	33,048	2098	92	\$ 204,344	\$ 228	2198	100	\$ 1,480,397	\$ 1,196	2298	100	\$ 10,724,951	\$ 8,666
4	HILLSDALE -3528- P.V.C - 200mm	1998	100	\$	1,632	2098	92	\$ 10,091	\$ 11	2198	100	\$ 73,106	\$ 59	2298	100	\$ 529,627	\$ 428
1	HILLSDALE -3391- P.V.C - 200mm	1998	100	\$	408	2098	92	\$ 2,523	\$ 3	2198	100	\$ 18,277	\$ 15	2298	100	\$ 132,407	\$ 107
163	HILLSDALE -2229- P.V.C - 200mm	1998	100	\$	66,504	2098	92	\$ 411,210	\$ 458	2198	100	\$ 2,979,070	\$ 2,407	2298	100	\$ 21,582,310	\$ 17,439
13	HILLSDALE -3393- P.V.C - 200mm	1998	100	\$	5,304	2098	92	\$ 32,796	\$ 37	2198	100	\$ 237,595	\$ 192	2298	100	\$ 1,721,289	\$ 1,391
173	HILLSDALE -2268- P.V.C - 200mm	1998	100	\$	70,584	2098	92	\$ 436,438	\$ 486	2198	100	\$ 3,161,835	\$ 2,555	2298	100	\$ 22,906,378	\$ 18,508
30	HILLSDALE -2251- P.V.C - 200mm	2001	100	\$	12,240	2101	95	\$ 80,315	\$ 79	2201	100	\$ 581,855	\$ 470	2301	100	\$ 4,215,335	\$ 3,406
94	HILLSDALE -2274- P.V.C - 200mm	2001	100	\$	38,352	2101	95	\$ 251,654	\$ 248	2201	100	\$ 1,823,146	\$ 1,473	2301	100	\$ 13,208,049	\$ 10,672
10	HILLSDALE -2259- P.V.C - 200mm	2001	100	\$	4,080	2101	95	\$ 26,772	\$ 26	2201	100	\$ 193,952	\$ 157	2301	100	\$ 1,405,112	\$ 1,135
14	HILLSDALE -2263- P.V.C - 200mm	2001	100	\$	5,712	2101	95	\$ 37,480	\$ 37	2201	100	\$ 271,532	\$ 219	2301	100	\$ 1,967,156	\$ 1,589
3	HILLSDALE -3400- P.V.C - 200mm	2001	100	\$	1,224	2101	95	\$ 8,032	\$ 8	2201	100	\$ 58,186	\$ 47	2301	100	\$ 421,533	\$ 341
53	HILLSDALE -2254- P.V.C - 200mm	2001	100	\$	21,624	2101	95	\$ 141,890	\$ 140	2201	100	\$ 1,027,944	\$ 831	2301	100	\$ 7,447,092	\$ 6,017
20	HILLSDALE -2312- P.V.C - 200mm	2001	100	\$	8,160	2101	95	\$ 53,543	\$ 53	2201	100	\$ 387,903	\$ 313	2301	100	\$ 2,810,223	\$ 2,271
9	HILLSDALE -2331- P.V.C - 200mm	2001	100	\$	3,672	2101	95	\$ 24,085	\$ 24	2201	100	\$ 174,557	\$ 141	2301	100	\$ 1,264,600	\$ 1,022
27	HILLSDALE -2330- P.V.C - 200mm	2001	100	\$	11,016	2101	95	\$ 72,284	\$ 71	2201	100	\$ 523,670	\$ 423	2301	100	\$ 3,793,801	\$ 3,065
35	HILLSDALE -2329- P.V.C - 200mm	2001	100	\$	14,280	2101	95	\$ 93,701	\$ 93	2201	100	\$ 678,831	\$ 548	2301	100	\$ 4,917,891	\$ 3,974
17	HILLSDALE -2313- P.V.C - 200mm	2001	100	\$	7,752	2101	95	\$ 50,866	\$ 50	2201	100	\$ 368,508	\$ 298	2301	100	\$ 2,689,712	\$ 2,157
11	HILLSDALE -2278- P.V.C - 200mm	2001	100	\$	6,936	2101	95	\$ 45,512	\$ 45	2201	100	\$ 329,718	\$ 266	2301	100	\$ 2,388,690	\$ 1,930
12	HILLSDALE -2308- P.V.C - 200mm	2001	100	\$	4,896	2101	95	\$ 32,126	\$ 32	2201	100	\$ 232,742	\$ 188	2301	100	\$ 1,686,134	\$ 1,362
283	HILLSDALE -2307- P.V.C - 200mm	2001	100	\$	115,464	2101	95	\$ 757,640	\$ 748	2201	100	\$ 5,488,834	\$ 4,435	2301	100	\$ 39,764,660	\$ 32,130
91	HILLSDALE -2302- P.V.C - 200mm	2001	100	\$	37,128	2101	95	\$ 243,623	\$ 241	2201	100	\$ 1,764,961	\$ 1,426	2301	100	\$ 12,786,516	\$ 10,332
29	HILLSDALE -2283- P.V.C - 200mm	2001	100	\$	8,160	2101	95	\$ 77,638	\$ 77	2201	100	\$ 562,460	\$ 454	2301	100	\$ 4,074,824	\$ 3,292
20	HILLSDALE -2279- P.V.C - 200mm	2001	100	\$	43,248	2101	95	\$ 283,780	\$ 280	2201	100	\$ 387,903	\$ 313	2301	100	\$ 2,810,223	\$ 2,271
106	HILLSDALE -2314- P.V.C - 200mm	2001	100	\$	408	2101	95	\$ 2,677	\$ 3	2201	100	\$ 20,588,888	\$ 1,661	2301	100	\$ 14,894,183	\$ 12,035
1	HILLSDALE -3689- P.V.C - 200mm	2001	100	\$	408	2101	95	\$ 2,677	\$ 3	2201	100	\$ 19,395	\$ 16	2301	100	\$ 140,511	\$ 114
59	HILLSDALE -2145- P.V.C - 200mm	2001	100	\$	24,072	2101	95	\$ 157,963	\$ 156	2201	100	\$ 1,144,315	\$ 925	2301	100	\$ 8,290,159	\$ 6,698
23	HILLSDALE -2149- P.V.C - 200mm	2001	100	\$	9,384	2101	95	\$ 61,575	\$ 61	2201	100	\$ 446,089	\$ 360	2301	100	\$ 3,231,757	\$ 2,611
80	HILLSDALE -2165- P.V.C - 200mm	2001	100	\$	32,640	2101	95	\$ 214,174	\$ 211	2201	100	\$ 1,551,614	\$ 1,254	2301	100	\$ 11,240,893	\$ 9,083
60	HILLSDALE -2215- P.V.C - 200mm	2001	100	\$	28,560	2101	95	\$ 160,630	\$ 159	2201	100	\$ 1,163,710	\$ 940	2301	100	\$ 8,430,670	\$ 6,812
70	HILLSDALE -2220- P.V.C - 200mm	2001	100	\$	28,560	2101	95	\$ 187,402	\$ 185	2201	100	\$ 1,357,662	\$ 1,097	2301	100	\$ 9,835,782	\$ 7,947
9	HILLSDALE -3544- P.V.C - 200mm	2001	100	\$	3,672	2101	95	\$ 16,063	\$ 16	2201	100	\$ 116,371	\$ 94	2301	100	\$ 843,067	\$ 681
9	HILLSDALE -3545- P.V.C - 200mm	2001	100	\$	3,672	2101	95	\$ 16,063	\$ 16	2201	100	\$ 174,557	\$ 141	2301	100	\$ 1,264,600	\$ 1,022
14	HILLSDALE -3546- P.V.C - 200mm	2001	100	\$	2,448	2101	95	\$ 16,063	\$ 16	2201	100	\$ 116,371	\$ 94	2301	100	\$ 843,067	\$ 681
6	HILLSDALE -3550- P.V.C - 200mm	2001	100	\$	5,712	2101	95	\$ 37,480	\$ 37	2201	100	\$ 271,532	\$ 219	2301	100	\$ 1,967,156	\$ 1,589
19	HILLSDALE -2216- P.V.C - 200mm	2001	100	\$	3,672	2101	95	\$ 24,085	\$ 24	2201	100	\$ 174,557	\$ 141	2301	100	\$ 1,264,600	\$ 1,022
9	HILLSDALE -2365- P.V.C - 200mm	1995	100	\$	7,752	2095	89	\$ 45,168	\$ 57	2195	100	\$ 337,225	\$ 264	2295	100	\$ 2,370,628	\$ 1,915
28	HILLSDALE -3384- P.V.C - 200mm	1995	100	\$	11,424	2095	89	\$ 66,563	\$ 84	2195	100	\$ 482,226	\$ 390	2295	100	\$ 3,493,557	\$ 2,823
1	HILLSDALE -2445- P.V.C - 300mm	1995	100	\$	408	2095	89	\$ 2,377	\$ 3	2195	100	\$ 17,222	\$ 14	2295	100	\$ 124,770	\$ 101
10	HILLSDALE -2437- P.V.C - 300mm	1995	100	\$	4,080	2095	89	\$ 23,773	\$ 30	2195	100	\$ 172,224	\$ 139	2295	100	\$ 1,247,699	\$ 1,008

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Water Hydrants

Inflation 2%
 Long-term investment 4%
 Percentage of Life Over Which Payments Made 100% (applies only to assets with lifespan >= 10 years)
 Extend Life of "Overdue" facilities by 10 years (1 is minimum acceptable value)

Qty.	Inventory Type or Name	Year Installed	Life Expect.	Overdue	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle					
						Year of First Replace.	No. of Payments	Replace. Amount \$	Annual Provision	Year of Second Replace.	No. of Payments	Replace. Amount \$	Annual Provision	Year of Third Replace.	No. of Payments	Replace. Amount \$	Annual Provision
68	Hydrant	1960	75	\$	416,160	2035	29	\$ 739,036	\$ 13,953	2110	75	\$ 3,263,459	\$ 7,274	2185	75	\$ 14,410,899	\$ 32,122
29	Hydrant	1973	75	\$	177,480	2048	42	\$ 407,715	\$ 3,890	2123	75	\$ 1,800,402	\$ 4,013	2198	75	\$ 7,950,280	\$ 17,721
112	Hydrant	1974	75	\$	685,440	2049	43	\$ 1,606,116	\$ 14,599	2124	75	\$ 7,092,343	\$ 15,809	2199	75	\$ 31,318,618	\$ 69,809
2	Hydrant	1987	75	\$	12,240	2062	56	\$ 37,101	\$ 186	2137	75	\$ 163,834	\$ 365	2212	75	\$ 723,464	\$ 1,613
3	Hydrant	1988	75	\$	18,360	2063	57	\$ 56,765	\$ 272	2138	75	\$ 250,666	\$ 559	2213	75	\$ 1,106,900	\$ 2,467
28	Hydrant	1989	75	\$	171,360	2064	58	\$ 540,405	\$ 2,477	2139	75	\$ 2,386,340	\$ 5,319	2214	75	\$ 10,537,684	\$ 23,489
4	Hydrant	1990	75	\$	24,480	2065	59	\$ 78,745	\$ 346	2140	75	\$ 347,724	\$ 775	2215	75	\$ 1,535,491	\$ 3,423
8	Hydrant	1991	75	\$	48,960	2066	60	\$ 160,639	\$ 675	2141	75	\$ 709,357	\$ 1,581	2216	75	\$ 3,132,402	\$ 6,982
10	Hydrant	1992	75	\$	61,200	2067	61	\$ 204,815	\$ 824	2142	75	\$ 904,430	\$ 2,016	2217	75	\$ 3,993,812	\$ 8,902
2	Hydrant	1993	75	\$	12,240	2068	62	\$ 41,782	\$ 161	2143	75	\$ 184,504	\$ 411	2218	75	\$ 814,738	\$ 1,816
1	Hydrant	1994	75	\$	6,120	2069	63	\$ 21,309	\$ 79	2144	75	\$ 94,097	\$ 210	2219	75	\$ 415,516	\$ 926
35	Hydrant	1995	75	\$	214,200	2070	64	\$ 760,730	\$ 2,691	2145	75	\$ 3,359,258	\$ 7,488	2220	75	\$ 14,833,930	\$ 33,065
14	Hydrant	1997	75	\$	85,680	2072	66	\$ 316,585	\$ 1,029	2147	75	\$ 1,397,989	\$ 3,116	2222	75	\$ 6,173,288	\$ 13,760
22	Hydrant	1998	75	\$	134,640	2073	67	\$ 507,441	\$ 1,580	2148	75	\$ 2,240,776	\$ 4,995	2223	75	\$ 9,894,899	\$ 22,056
6	Hydrant	1999	75	\$	36,720	2074	68	\$ 141,161	\$ 421	2149	75	\$ 623,343	\$ 1,389	2224	75	\$ 2,752,581	\$ 6,136
8	Hydrant	2000	75	\$	48,960	2075	69	\$ 191,979	\$ 550	2150	75	\$ 847,747	\$ 1,890	2225	75	\$ 3,743,510	\$ 8,344
19	Hydrant	2001	75	\$	116,280	2076	70	\$ 465,069	\$ 1,277	2151	75	\$ 2,053,667	\$ 4,578	2226	75	\$ 9,068,654	\$ 20,214
16	Hydrant	2002	75	\$	97,920	2077	71	\$ 474,370	\$ 1,249	2152	75	\$ 2,094,740	\$ 4,669	2227	75	\$ 9,250,027	\$ 20,618
16	Hydrant	2003	75	\$	97,920	2078	72	\$ 407,459	\$ 1,029	2153	75	\$ 1,799,271	\$ 4,011	2228	75	\$ 7,945,286	\$ 17,710
30	Hydrant	2004	75	\$	183,600	2079	73	\$ 779,265	\$ 1,867	2154	75	\$ 3,441,106	\$ 7,670	2229	75	\$ 15,195,360	\$ 33,870

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Water Supply

2%
4%
100% (applies only to assets with lifespan >= 10 years)
10 years (1 is minimum acceptable value)

Inventory Type or Name	Year Installed	Life Expect.	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle		
				Year of First Replace.	No. of Payments	Replace. Amount \$	Year of Second Replace.	No. of Payments	Replace. Amount \$	Year of Third Replace.	No. of Payments	Replace. Amount \$
ANTEN MILLS Water Supply Well	1974	50	\$ 61,200	2024	18	\$ 87,409	2074	50	\$ 235,268	2124	50	\$ 633,245
ANTEN MILLS Water Supply Well	1974	50	\$ 61,200	2024	18	\$ 87,409	2074	50	\$ 235,268	2124	50	\$ 633,245
ANTEN MILLS Water Supply Well	2004	50	\$ 61,200	2054	48	\$ 156,329	2104	50	\$ 426,156	2154	50	\$ 1,147,035
ELMVALE Water Supply Well	1960	50	\$ 61,200	2010	4	\$ 66,245	2060	50	\$ 178,304	2110	50	\$ 479,920
ELMVALE Water Supply Well	1992	50	\$ 61,200	2042	36	\$ 124,841	2092	50	\$ 336,021	2142	50	\$ 904,430
HILLSDALE Water Supply Well	1995	50	\$ 61,200	2045	39	\$ 132,482	2095	50	\$ 356,588	2145	50	\$ 959,788
HILLSDALE Water Supply Well	1995	50	\$ 61,200	2045	39	\$ 132,482	2095	50	\$ 356,588	2145	50	\$ 959,788
HILLSDALE Water Supply Well	2004	50	\$ 61,200	2054	48	\$ 158,329	2104	50	\$ 426,156	2154	50	\$ 1,147,035
MIDHURST Water Supply Well	1975	50	\$ 61,200	2025	19	\$ 89,157	2075	50	\$ 239,973	2125	50	\$ 645,910
MIDHURST Water Supply Well	1985	50	\$ 61,200	2035	29	\$ 108,682	2085	50	\$ 292,526	2135	50	\$ 787,360
MIDHURST Water Supply Well	1972	50	\$ 61,200	2022	16	\$ 84,014	2072	50	\$ 226,132	2122	50	\$ 608,655
MIDHURST Water Supply Well	2002	50	\$ 61,200	2052	46	\$ 152,181	2102	50	\$ 409,608	2152	50	\$ 1,102,495
DEL TREND Water Supply Well	1992	50	\$ 61,200	2042	36	\$ 124,841	2092	50	\$ 336,021	2142	50	\$ 904,430
DEL TREND Water Supply Well	1992	50	\$ 61,200	2042	36	\$ 124,841	2092	50	\$ 336,021	2142	50	\$ 904,430
DEL TREND Water Supply Well	2000	50	\$ 61,200	2050	44	\$ 146,271	2100	50	\$ 393,702	2150	50	\$ 1,059,683
MNESING Water Supply Well	1973	50	\$ 61,200	2023	17	\$ 85,695	2073	50	\$ 230,655	2123	50	\$ 620,828
MNESING Water Supply Well	1989	50	\$ 61,200	2039	33	\$ 117,641	2089	50	\$ 316,640	2139	50	\$ 852,264
MNESING Water Supply Well	1992	50	\$ 61,200	2042	36	\$ 124,841	2092	50	\$ 336,021	2142	50	\$ 904,430
PHELSTON Water Supply Well	2004	50	\$ 61,200	2054	48	\$ 158,329	2104	50	\$ 426,156	2154	50	\$ 1,147,035
PHELSTON Water Supply Well	2004	50	\$ 61,200	2054	48	\$ 158,329	2104	50	\$ 426,156	2154	50	\$ 1,147,035
PHELSTON Water Supply Well	1988	50	\$ 61,200	2038	32	\$ 115,334	2088	50	\$ 310,431	2138	50	\$ 835,553
SNOW VALLEY Water Supply Well	1989	50	\$ 61,200	2039	33	\$ 117,641	2089	50	\$ 316,640	2139	50	\$ 852,264
SNOW VALLEY Water Supply Well	2004	50	\$ 61,200	2054	48	\$ 158,329	2104	50	\$ 426,156	2154	50	\$ 1,147,035
SNOW VALLEY Water Supply Well	2004	50	\$ 61,200	2054	48	\$ 158,329	2104	50	\$ 426,156	2154	50	\$ 1,147,035
SNOW VALLEY Water Supply Well	1994	50	\$ 61,200	2044	38	\$ 129,885	2094	50	\$ 349,596	2144	50	\$ 940,969
VESPRADOWNS Water Supply Well	1994	50	\$ 61,200	2044	38	\$ 129,885	2094	50	\$ 349,596	2144	50	\$ 940,969
VESPRADOWNS Water Supply Well	2004	50	\$ 61,200	2054	48	\$ 158,329	2104	50	\$ 426,156	2154	50	\$ 1,147,035
VESPRADOWNS Water Supply Well	1994	50	\$ 61,200	2044	38	\$ 129,885	2094	50	\$ 349,596	2144	50	\$ 940,969
ANTEN MILLS Pump Station - Equipment	1974	75	\$ 153,000	2024	43	\$ 358,508	2124	75	\$ 1,583,112	2199	75	\$ 6,990,763
ANTEN MILLS Pump Station - Equipment	1974	75	\$ 153,000	2024	43	\$ 358,508	2124	75	\$ 1,583,112	2199	75	\$ 6,990,763
ELMVALE Pump Station - Structural	1960	50	\$ 153,000	2010	29	\$ 271,704	2060	50	\$ 733,960	2110	50	\$ 1,998,125
ELMVALE Pump Station - Structural	1960	50	\$ 153,000	2010	29	\$ 271,704	2060	50	\$ 733,960	2110	50	\$ 1,998,125
ELMVALE Pump Station - Structural	1994	50	\$ 153,000	2044	63	\$ 532,724	2144	75	\$ 2,352,421	2219	75	\$ 10,387,906
ELMVALE Pump Station - Structural	1994	50	\$ 153,000	2044	63	\$ 532,724	2144	75	\$ 2,352,421	2219	75	\$ 10,387,906
HILLSDALE Pump Station - Structural	1995	50	\$ 153,000	2045	64	\$ 543,378	2145	75	\$ 2,399,470	2220	75	\$ 10,595,664
HILLSDALE Pump Station - Structural	1995	50	\$ 153,000	2045	64	\$ 543,378	2145	75	\$ 2,399,470	2220	75	\$ 10,595,664
MIDHURST Pump Station - Structural	1972	75	\$ 153,000	2022	41	\$ 344,587	2122	75	\$ 1,521,638	2197	75	\$ 6,719,303
MIDHURST Pump Station - Structural	1972	75	\$ 153,000	2022	41	\$ 344,587	2122	75	\$ 1,521,638	2197	75	\$ 6,719,303
MIDHURST Pump Station - Structural	1975	75	\$ 153,000	2025	44	\$ 365,678	2125	75	\$ 1,614,774	2200	75	\$ 7,130,578
MIDHURST Pump Station - Structural	1975	75	\$ 153,000	2025	44	\$ 365,678	2125	75	\$ 1,614,774	2200	75	\$ 7,130,578
MIDHURST Pump Station - Structural	2002	75	\$ 153,000	2072	71	\$ 624,171	2152	75	\$ 2,756,237	2227	75	\$ 12,171,088
MIDHURST Pump Station - Structural	2002	75	\$ 153,000	2072	71	\$ 624,171	2152	75	\$ 2,756,237	2227	75	\$ 12,171,088
DEL TREND Pump Station - Structural	1992	75	\$ 153,000	2067	46	\$ 380,452	2142	75	\$ 1,644,000	2192	75	\$ 7,130,578
DEL TREND Pump Station - Structural	1992	75	\$ 153,000	2067	46	\$ 380,452	2142	75	\$ 1,644,000	2192	75	\$ 7,130,578
DEL TREND Pump Station - Structural	1992	75	\$ 153,000	2067	46	\$ 380,452	2142	75	\$ 1,644,000	2192	75	\$ 7,130,578
MNESING Pump Station - Structural	1973	50	\$ 153,000	2023	36	\$ 312,103	2073	50	\$ 840,052	2123	50	\$ 2,261,074
MNESING Pump Station - Structural	1973	50	\$ 153,000	2023	36	\$ 312,103	2073	50	\$ 840,052	2123	50	\$ 2,261,074
PHELSTON Pump Station - Structural	2004	75	\$ 153,000	2074	42	\$ 351,478	2154	75	\$ 1,552,071	2198	75	\$ 6,853,689
PHELSTON Pump Station - Structural	2004	75	\$ 153,000	2074	42	\$ 351,478	2154	75	\$ 1,552,071	2198	75	\$ 6,853,689
PHELSTON Pump Station - Structural	2004	75	\$ 153,000	2074	42	\$ 351,478	2154	75	\$ 1,552,071	2198	75	\$ 6,853,689
SNOW VALLEY Pump Station - Equipment	1988	50	\$ 153,000	2038	57	\$ 473,044	2138	75	\$ 2,088,883	2213	75	\$ 9,224,163
SNOW VALLEY Pump Station - Equipment	1988	50	\$ 153,000	2038	57	\$ 473,044	2138	75	\$ 2,088,883	2213	75	\$ 9,224,163
SNOW VALLEY Pump Station - Structural	2004	75	\$ 153,000	2079	73	\$ 640,388	2154	75	\$ 2,867,589	2229	75	\$ 12,662,800
SNOW VALLEY Pump Station - Structural	2004	75	\$ 153,000	2079	73	\$ 640,388	2154	75	\$ 2,867,589	2229	75	\$ 12,662,800

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Identification	Inventory Type or Name	Year Installed	Life Expect.	Overdue	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle		
						Year of First Replace.	No. of Payments	Replaces. Amount \$	Year of Second Replace.	No. of Payments	Replaces. Amount \$	Year of Third Replace.	No. of Payments	Replaces. Amount \$
	SNOW VALLYE Pump Station - Equipment	2004	50		153,000	2054	48	395,822	2104	50	1,065,389	2154	50	2,867,589
	VESPRADOWNS Pump Station - Structural	1994	75		153,000	2069	63	532,724	2144	75	2,352,421	2219	75	10,387,906
	VESPRADOWNS Pump Station - Equipment	1994	50		153,000	2044	38	324,712	2094	50	873,990	2144	50	2,352,421
								2,842			6,979			18,783
								1,967			5,244			23,155
								3,777			5,725			15,409

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Water Distribution

Inflation 2%
 Long-term investment 4%
 Percentage of Life Over Which Payments Made 100% (applies only to assets with lifespan >= 10 years)
 Extend Life of "Overdue" facilities by 10 years (1 is minimum acceptable value)

Qty.	Inventory Type or Name	Year Installed	Life Expect.	Overdue	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle					
						Year of First Replace.	No. of Payments	Replace. Amount \$	Annual Provision	Year of Second Replace.	No. of Payments	Replace. Amount \$	Annual Provision	Year of Third Replace.	No. of Payments	Replace. Amount \$	Annual Provision
60	Valves & Chambers	1960	50		367,200	2010	4	397,469	93,600	2060	50	1,069,823	7,008	2110	50	2,879,523	18,861
25	Valves & Chambers	1973	50		153,000	2023	17	214,237	9,040	2073	50	576,638	3,777	2123	50	1,552,071	10,166
99	Valves & Chambers	1974	50		605,880	2024	18	865,346	33,743	2074	50	2,329,154	15,256	2124	50	6,289,124	41,064
1	Valves & Chambers	1987	50		6,120	2037	31	11,307	191	2087	50	30,434	199	2137	50	81,917	537
2	Valves & Chambers	1988	50		12,240	2038	32	23,067	368	2088	50	62,086	407	2138	50	167,111	1,095
25	Valves & Chambers	1989	50		153,000	2039	33	294,101	4,442	2089	50	791,600	5,185	2139	50	2,130,661	13,956
3	Valves & Chambers	1990	50		18,360	2040	34	35,998	515	2090	50	96,892	635	2140	50	260,687	1,708
7	Valves & Chambers	1991	50		42,840	2041	35	85,675	1,163	2091	50	230,603	1,510	2141	50	620,687	4,066
8	Valves & Chambers	1992	50		48,960	2042	36	99,873	1,287	2092	50	268,817	1,761	2142	50	723,544	4,739
1	Valves & Chambers	1993	50		6,120	2043	37	12,734	156	2093	50	34,274	225	2143	50	92,252	604
31	Valves & Chambers	1995	50		189,720	2045	39	410,695	4,543	2095	50	1,105,423	7,241	2145	50	2,975,343	19,489
12	Valves & Chambers	1987	50		73,440	2047	41	165,402	1,657	2097	50	445,193	2,916	2147	50	1,195,216	7,849
19	Valves & Chambers	1988	50		116,280	2048	42	267,124	2,548	2098	50	718,987	4,710	2148	50	1,935,216	12,676
999	Valves & Chambers	1999	50		30,600	2049	43	71,702	652	2099	50	192,991	1,284	2149	50	519,453	3,403
6	Valves & Chambers	2000	50		36,720	2050	44	87,763	760	2100	50	236,221	1,547	2150	50	635,810	4,165
2001	Valves & Chambers	2001	50		97,920	2051	45	238,715	1,972	2101	50	642,522	4,209	2151	50	1,729,403	11,328
16	Valves & Chambers	2002	50		85,680	2052	46	243,489	1,919	2102	50	655,372	4,293	2152	50	1,763,991	11,554
2003	Valves & Chambers	2003	50		165,240	2053	47	217,314	1,635	2103	50	584,920	3,831	2153	50	1,574,362	10,312
14	Valves & Chambers	2004	50		165,240	2054	48	427,488	3,070	2104	50	1,150,620	7,537	2154	50	3,096,996	20,286
27	Valves & Chambers	1995	75		51,000	2070	64	181,126	641	2145	75	799,823	1,783	2220	75	3,531,888	7,873
1	ELMVALE Booster PS - Structure	1995	25		51,000	2070	14	67,293	3,679	2045	25	110,402	2,651	2200	25	181,126	4,349
1	MIDHURST Booster PS - Structure	1984	75		51,000	2059	53	145,673	833	2134	75	643,268	1,434	2209	75	2,840,567	6,332
1	MIDHURST Booster PS - Structure	1984	25		51,000	2009	3	54,122	17,338	2034	25	88,792	2,132	2059	25	145,673	3,498
1	MIDHURST Booster PS - Structure	1989	75		51,000	2064	58	160,835	737	2139	75	710,220	1,583	2214	75	3,136,216	6,991
1	MIDHURST Booster PS - Equipment	1989	25		51,000	2014	8	59,755	6,485	2039	25	98,034	2,354	2064	25	160,835	3,862

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Water Meters and Connections

Inflation 2%
 Long-term Investment 4%
 Percentage of Life Over Which Payments Made 100% (applies only to assets with lifespan >= 10 years)
 Extend Life of "Overdue" facilities by 10 years (1 is minimum acceptable value)

Qty.	Inventory Type or Name	Year Installed	Life Expect.	Overdue	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle		
						Year of First Replace.	No. of Payments	Replace. Amount \$	Year of Second Replace.	No. of Payments	Replace. Amount \$	Year of Third Replace.	No. of Payments	Replace. Amount \$
480	Service Connections	1980	75		\$ 754,400	2035	29	\$ 1,304,180	2110	75	\$ 5,759,046	2185	75	\$ 25,430,999
204	Service Connections	1973	75		\$ 312,120	2048	42	\$ 717,016	2123	75	\$ 3,166,224	2198	75	\$ 13,981,526
794	Service Connections	1974	75		\$ 1,214,820	2049	43	\$ 2,846,553	2124	75	\$ 12,569,911	2199	75	\$ 55,506,658
7	Service Connections	1987	75		\$ 10,710	2062	56	\$ 32,464	2137	75	\$ 143,355	2212	75	\$ 633,031
20	Service Connections	1988	75		\$ 30,600	2063	57	\$ 94,609	2138	75	\$ 417,777	2213	75	\$ 1,844,833
197	Service Connections	1989	75		\$ 301,410	2064	58	\$ 950,534	2139	75	\$ 4,197,401	2214	75	\$ 18,535,034
23	Service Connections	1990	75		\$ 35,190	2065	59	\$ 113,196	2140	75	\$ 499,853	2215	75	\$ 2,207,268
55	Service Connections	1991	75		\$ 84,150	2066	60	\$ 276,099	2141	75	\$ 1,219,207	2216	75	\$ 5,383,816
67	Service Connections	1992	75		\$ 102,510	2067	61	\$ 343,065	2142	75	\$ 1,514,920	2217	75	\$ 6,689,636
8	Service Connections	1993	75		\$ 12,240	2068	62	\$ 41,782	2143	75	\$ 184,504	2218	75	\$ 814,738
246	Service Connections	1995	75		\$ 376,380	2070	64	\$ 1,336,711	2145	75	\$ 5,902,696	2220	75	\$ 26,065,334
98	Service Connections	1987	75		\$ 149,940	2072	66	\$ 554,024	2148	75	\$ 2,446,480	2222	75	\$ 10,803,254
154	Service Connections	1988	75		\$ 235,620	2073	67	\$ 888,022	2149	75	\$ 3,921,358	2223	75	\$ 17,316,074
38	Service Connections	1999	75		\$ 58,140	2074	68	\$ 223,505	2149	75	\$ 986,960	2224	75	\$ 4,358,253
52	Service Connections	2000	75		\$ 79,560	2075	69	\$ 311,966	2150	75	\$ 1,377,688	2225	75	\$ 6,083,204
132	Service Connections	2001	75		\$ 201,960	2076	70	\$ 807,751	2151	75	\$ 3,566,895	2226	75	\$ 15,750,819
129	Service Connections	2002	75		\$ 197,370	2077	71	\$ 805,181	2152	75	\$ 3,555,545	2227	75	\$ 15,700,703
114	Service Connections	2003	75		\$ 174,420	2078	72	\$ 725,786	2153	75	\$ 3,204,952	2228	75	\$ 14,152,541
213	Service Connections	2004	75		\$ 325,890	2079	73	\$ 1,383,196	2154	75	\$ 6,107,964	2229	75	\$ 26,971,763
480	Water Meters	1960	40	overdue	\$ 244,800	2016	10	\$ 298,410	2056	40	\$ 658,901	2096	40	\$ 1,454,879
204	Water Meters	1973	40		\$ 104,040	2013	7	\$ 119,509	2053	40	\$ 263,881	2093	40	\$ 582,660
794	Water Meters	1974	40		\$ 404,940	2014	8	\$ 474,452	2054	40	\$ 1,047,608	2094	40	\$ 2,313,161
7	Water Meters	1987	40		\$ 3,570	2027	21	\$ 5,411	2067	40	\$ 11,948	2107	40	\$ 26,381
20	Water Meters	1988	40		\$ 10,200	2028	22	\$ 15,769	2068	40	\$ 34,819	2108	40	\$ 76,881
197	Water Meters	1989	40		\$ 100,470	2029	23	\$ 158,431	2069	40	\$ 349,822	2109	40	\$ 772,421
23	Water Meters	1989	40		\$ 11,730	2030	24	\$ 18,867	2070	40	\$ 41,659	2110	40	\$ 91,985
55	Water Meters	1991	40		\$ 28,050	2031	25	\$ 46,019	2071	40	\$ 101,612	2111	40	\$ 224,363
67	Water Meters	1992	40		\$ 34,170	2032	26	\$ 57,181	2072	40	\$ 126,257	2112	40	\$ 278,781
8	Water Meters	1993	40		\$ 4,080	2033	27	\$ 6,964	2073	40	\$ 15,377	2113	40	\$ 33,953
246	Water Meters	1995	40		\$ 125,460	2035	29	\$ 222,797	2075	40	\$ 491,946	2115	40	\$ 1,086,236
98	Water Meters	1997	40		\$ 49,980	2037	31	\$ 92,342	2077	40	\$ 203,896	2117	40	\$ 450,210
154	Water Meters	1998	40		\$ 78,540	2038	32	\$ 148,012	2078	40	\$ 326,816	2118	40	\$ 721,623
38	Water Meters	1999	40		\$ 19,380	2039	33	\$ 37,253	2079	40	\$ 82,256	2119	40	\$ 181,624
52	Water Meters	2001	40		\$ 26,520	2040	34	\$ 51,987	2080	40	\$ 114,812	2120	40	\$ 253,509
132	Water Meters	2001	40		\$ 67,320	2041	35	\$ 134,633	2081	40	\$ 297,274	2121	40	\$ 656,393
129	Water Meters	2002	40		\$ 65,790	2042	36	\$ 134,204	2082	40	\$ 286,328	2122	40	\$ 686,866
114	Water Meters	2003	40		\$ 58,140	2043	37	\$ 120,971	2083	40	\$ 287,109	2123	40	\$ 589,787
213	Water Meters	2004	40		\$ 108,630	2044	38	\$ 230,545	2084	40	\$ 509,053	2124	40	\$ 1,124,010

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Water Misc.

Inflation	2%
Long-term Investment	4%
Percentage of Life Over Which Payments Made	100% (applies only to assets with lifespan >= 10 years)
Extend Life of "Overdue" facilities by	10 years (1 is minimum acceptable value)

Inventory Identification	Year Installed	Life Expect.	Overdue	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle			
					Year of First Replace.	No. of Payments	Replace. Amount \$	Year of Second Replace.	No. of Payments	Replace. Amount \$	Year of Third Replace.	No. of Payments	Replace. Amount \$	Annual Provision
ANTIEN MILLS Elevated Storage Tank	1986	75		\$ 1,020,000	2071	65	\$ 3,694,974	2146	75	\$ 16,316,395	2221	75	\$ 72,050,517	\$ 160,607
ELMVALE Elevated Storage Tank	1995	75		\$ 1,020,000	2070	64	\$ 3,622,523	2145	75	\$ 15,986,466	2220	75	\$ 70,637,762	\$ 157,452
HILLSDALE Elevated Storage Tank	1995	75		\$ 1,020,000	2070	64	\$ 3,622,523	2145	75	\$ 15,986,466	2220	75	\$ 70,637,762	\$ 157,452
MIDHURST Elevated Storage Tank	1983	75		\$ 1,020,000	2058	52	\$ 2,856,335	2133	75	\$ 12,613,104	2208	75	\$ 55,697,393	\$ 124,150
MIDHURST Elevated Storage Tank	1989	75		\$ 1,020,000	2065	59	\$ 3,281,031	2140	75	\$ 14,488,492	2215	75	\$ 63,978,797	\$ 142,609
MNESING Elevated Storage Tank	1989	75		\$ 1,020,000	2064	58	\$ 3,216,697	2139	75	\$ 14,204,404	2214	75	\$ 62,724,311	\$ 139,813
MNESING Elevated Storage Tank	2005	75		\$ 1,020,000	2080	74	\$ 4,415,835	2155	75	\$ 19,499,603	2230	75	\$ 86,107,037	\$ 191,933
SNOW VALLEY Elevated Storage Tank	2004	75		\$ 1,020,000	2079	73	\$ 4,329,250	2154	75	\$ 19,117,258	2229	75	\$ 84,418,664	\$ 188,169
SNOW VALLEY Elevated Storage Tank	2004	75		\$ 1,020,000	2079	73	\$ 4,329,250	2154	75	\$ 19,117,258	2229	75	\$ 84,418,664	\$ 188,169
DEL TREND Inground Storage Tank	1992	100		\$ 306,000	2092	86	\$ 1,680,104	2192	100	\$ 12,171,760	2292	100	\$ 88,180,093	\$ 71,250
PHELPSTON Inground Storage Tank	2004	100		\$ 306,000	2104	98	\$ 2,130,778	2204	100	\$ 15,436,735	2304	100	\$ 111,833,679	\$ 90,362
SNOW VALLEY Inground Storage Tank	1988	100		\$ 306,000	2088	82	\$ 1,552,157	2188	100	\$ 11,244,825	2288	100	\$ 81,464,775	\$ 65,824

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Wastewater Mains

Inflation 2%
Long-term Investment 4%
Percentage of Life Over Which Payments Made 100% (applies only to assets with lifespan >= 10 years)
Extend Life of "Overdue" facilities by 10 years (1 is minimum acceptable value)

Qty. (m)	Inventory Material, Diameter (mm)	Year Installed	Life Expect.	Overdue	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle					
						Year of First Replace.	No. of Payments	Replace. Amount \$	Annual Provision	Year of Second Replace.	No. of Payments	Replace. Amount \$	Annual Provision	Year of Third Replace.	No. of Payments	Replace. Amount \$	Annual Provision
54	ELMVALE - 6 - AC - 200mm	1982	100		27,540	2062	56	\$ 83,478	\$ 418	2162	100	\$ 604,771	\$ 489	2262	100	\$ 4,381,350	\$ 3,540
64	ELMVALE - 7 - AC - 200mm	1982	100		32,640	2062	56	\$ 96,937	\$ 495	2162	100	\$ 716,765	\$ 579	2262	100	\$ 4,196	\$ 4,196
97	ELMVALE - 8 - AC - 200mm	1982	100		49,470	2062	56	\$ 149,932	\$ 750	2162	100	\$ 1,086,347	\$ 878	2262	100	\$ 7,870,202	\$ 6,359
54	ELMVALE - 9 - AC - 200mm	1982	100		27,540	2062	56	\$ 83,478	\$ 418	2162	100	\$ 604,771	\$ 489	2262	100	\$ 4,381,350	\$ 3,540
46	ELMVALE - 171 - AC - 200mm	1982	100		23,460	2062	56	\$ 71,111	\$ 356	2162	100	\$ 515,175	\$ 416	2262	100	\$ 3,732,261	\$ 3,016
65	ELMVALE - 174 - AC - 250mm	1982	100		33,150	2062	56	\$ 100,483	\$ 503	2162	100	\$ 727,965	\$ 588	2262	100	\$ 5,273,847	\$ 4,261
40	ELMVALE - 180 - AC - 250mm	1982	100		20,400	2062	56	\$ 61,836	\$ 309	2162	100	\$ 447,978	\$ 362	2262	100	\$ 3,245,444	\$ 2,622
51	ELMVALE - 98 - AC - 300mm	1982	100		26,010	2062	56	\$ 78,841	\$ 395	2162	100	\$ 571,172	\$ 462	2262	100	\$ 4,137,941	\$ 3,343
36	ELMVALE - 99 - AC - 300mm	1982	100		18,360	2062	56	\$ 55,652	\$ 279	2162	100	\$ 403,180	\$ 326	2262	100	\$ 2,920,900	\$ 2,360
47	ELMVALE - 182 - AC - 300mm	1982	100		23,970	2062	56	\$ 72,657	\$ 364	2162	100	\$ 526,374	\$ 425	2262	100	\$ 3,813,397	\$ 3,081
72	ELMVALE - 168 - AC - 300mm	1982	100		36,720	2062	56	\$ 111,304	\$ 557	2162	100	\$ 806,361	\$ 652	2262	100	\$ 5,841,799	\$ 4,720
11	ELMVALE - 169 - AC - 300mm	1982	100		5,610	2062	56	\$ 17,005	\$ 85	2162	100	\$ 123,194	\$ 100	2262	100	\$ 892,497	\$ 721
133	ELMVALE - 195 - AC - 300mm	1982	100		67,830	2062	56	\$ 205,604	\$ 1,029	2162	100	\$ 1,489,528	\$ 1,204	2262	100	\$ 10,791,102	\$ 8,719
76	ELMVALE - 192 - PVC - 150mm	1982	100		38,760	2062	56	\$ 117,488	\$ 588	2162	100	\$ 851,159	\$ 683	2262	100	\$ 6,186,344	\$ 4,982
102	ELMVALE - 193 - PVC - 150mm	1982	100		52,020	2062	56	\$ 157,681	\$ 789	2162	100	\$ 1,142,345	\$ 923	2262	100	\$ 8,275,883	\$ 6,687
14	ELMVALE - 50 - PVC - 200mm	1982	100		7,140	2062	56	\$ 21,643	\$ 108	2162	100	\$ 156,792	\$ 127	2262	100	\$ 1,135,905	\$ 918
70	ELMVALE - 122 - PVC - 200mm	1982	100		35,700	2062	56	\$ 108,213	\$ 542	2162	100	\$ 783,962	\$ 633	2262	100	\$ 5,679,527	\$ 4,589
61	ELMVALE - 138 - PVC - 200mm	1982	100		31,110	2062	56	\$ 94,300	\$ 472	2162	100	\$ 683,372	\$ 552	2262	100	\$ 4,949,307	\$ 3,999
52	ELMVALE - 154 - PVC - 200mm	1982	100		26,520	2062	56	\$ 80,387	\$ 402	2162	100	\$ 582,372	\$ 471	2262	100	\$ 4,219,077	\$ 3,409
93	ELMVALE - 155 - PVC - 200mm	1982	100		47,430	2062	56	\$ 143,768	\$ 720	2162	100	\$ 1,041,550	\$ 842	2262	100	\$ 7,545,658	\$ 6,097
81	ELMVALE - 157 - PVC - 200mm	1982	100		41,310	2062	56	\$ 125,217	\$ 627	2162	100	\$ 907,156	\$ 733	2262	100	\$ 6,572,024	\$ 5,310
38	ELMVALE - 183 - PVC - 200mm	1982	100		19,380	2062	56	\$ 30,918	\$ 155	2162	100	\$ 223,989	\$ 181	2262	100	\$ 1,622,722	\$ 1,311
20	ELMVALE - 172 - PVC - 200mm	1982	100		10,200	2062	56	\$ 45,744	\$ 294	2162	100	\$ 425,579	\$ 398	2262	100	\$ 3,569,989	\$ 2,885
44	ELMVALE - 191 - PVC - 200mm	1982	100		22,440	2062	56	\$ 68,019	\$ 340	2162	100	\$ 492,776	\$ 398	2262	100	\$ 3,569,989	\$ 2,885
112	ELMVALE - 176 - PVC - 250mm	1982	100		53,040	2062	56	\$ 160,773	\$ 805	2162	100	\$ 1,164,744	\$ 941	2262	100	\$ 8,438,155	\$ 6,818
104	ELMVALE - 177 - PVC - 250mm	1982	100		57,120	2062	56	\$ 173,140	\$ 867	2162	100	\$ 1,254,339	\$ 1,014	2262	100	\$ 9,087,244	\$ 7,342
54	ELMVALE - 178 - PVC - 250mm	1982	100		27,540	2062	56	\$ 83,478	\$ 418	2162	100	\$ 604,771	\$ 489	2262	100	\$ 4,381,350	\$ 3,540
103	ELMVALE - 179 - PVC - 250mm	1982	100		52,530	2062	56	\$ 159,227	\$ 797	2162	100	\$ 1,153,544	\$ 932	2262	100	\$ 8,357,019	\$ 6,752
43	ELMVALE - 216 - PVC - 250mm	1982	100		17,850	2062	56	\$ 54,106	\$ 271	2162	100	\$ 391,981	\$ 317	2262	100	\$ 2,839,764	\$ 2,295
38	ELMVALE - 218 - PVC - 250mm	1982	100		19,380	2062	56	\$ 66,473	\$ 333	2162	100	\$ 481,579	\$ 389	2262	100	\$ 3,488,852	\$ 2,819
84	ELMVALE - 219 - PVC - 250mm	1982	100		42,840	2062	56	\$ 129,855	\$ 650	2162	100	\$ 940,754	\$ 760	2262	100	\$ 6,815,433	\$ 5,507
103	ELMVALE - 220 - PVC - 250mm	1982	100		52,530	2062	56	\$ 159,227	\$ 797	2162	100	\$ 1,153,544	\$ 932	2262	100	\$ 8,357,019	\$ 6,752
76	ELMVALE - 222 - PVC - 250mm	1982	100		38,760	2062	56	\$ 117,488	\$ 588	2162	100	\$ 851,159	\$ 683	2262	100	\$ 6,186,344	\$ 4,982
18	ELMVALE - 223 - PVC - 250mm	1982	100		9,180	2062	56	\$ 27,826	\$ 139	2162	100	\$ 201,590	\$ 163	2262	100	\$ 1,460,450	\$ 1,180
89	ELMVALE - 224 - PVC - 250mm	1982	100		45,900	2062	56	\$ 154,589	\$ 774	2162	100	\$ 1,119,946	\$ 905	2262	100	\$ 8,113,610	\$ 6,556
80	ELMVALE - 225 - PVC - 250mm	1982	100		31,110	2062	56	\$ 93,000	\$ 469	2162	100	\$ 683,167	\$ 552	2262	100	\$ 4,949,307	\$ 3,999
82	ELMVALE - 227 - PVC - 250mm	1982	100		41,820	2062	56	\$ 126,763	\$ 634	2162	100	\$ 918,355	\$ 742	2262	100	\$ 6,653,160	\$ 5,376
69	ELMVALE - 228 - PVC - 250mm	1982	100		35,190	2062	56	\$ 106,667	\$ 534	2162	100	\$ 772,763	\$ 633	2262	100	\$ 5,598,391	\$ 4,524
70	ELMVALE - 229 - PVC - 250mm	1982	100		35,700	2062	56	\$ 108,213	\$ 542	2162	100	\$ 783,962	\$ 633	2262	100	\$ 5,679,527	\$ 4,589
106	ELMVALE - 230 - PVC - 250mm	1982	100		54,060	2062	56	\$ 163,865	\$ 820	2162	100	\$ 1,187,142	\$ 959	2262	100	\$ 8,600,427	\$ 6,949
83	ELMVALE - 231 - PVC - 250mm	1982	100		42,330	2062	56	\$ 128,309	\$ 642	2162	100	\$ 929,555	\$ 751	2262	100	\$ 6,794,297	\$ 5,441
73	ELMVALE - 232 - PVC - 250mm	1982	100		30,200	2062	56	\$ 112,850	\$ 565	2162	100	\$ 817,560	\$ 681	2262	100	\$ 5,922,896	\$ 4,786
20	ELMVALE - 233 - PVC - 250mm	1982	100		10,200	2062	56	\$ 30,918	\$ 155	2162	100	\$ 223,989	\$ 181	2262	100	\$ 1,622,722	\$ 1,311
49	ELMVALE - 234 - PVC - 250mm	1982	100		24,990	2062	56	\$ 75,749	\$ 379	2162	100	\$ 548,773	\$ 443	2262	100	\$ 3,975,669	\$ 3,212

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Qty. (m)	Inventory Material/Diameter (mm)	Year Installed	Life Expect.	Overdue	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle		
						Year of First Replace.	No. of Payments	Annual Amount	Year of Second Replace.	No. of Payments	Annual Amount	Year of Third Replace.	No. of Payments	Annual Amount
69	ELMVALE-235-PVC-250mm	1982	100		\$ 35,190	2062	56	\$ 106,667	2162	100	\$ 772,763	2262	100	\$ 5,598,391
77	ELMVALE-236-PVC-250mm	1982	100		\$ 29,580	2062	56	\$ 89,662	2162	100	\$ 649,569	2262	100	\$ 4,705,694
58	ELMVALE-237-PVC-250mm	1982	100		\$ 39,270	2062	56	\$ 119,034	2162	100	\$ 862,358	2262	100	\$ 6,247,480
42	ELMVALE-238-PVC-250mm	1982	100		\$ 22,950	2062	56	\$ 69,565	2162	100	\$ 503,976	2262	100	\$ 3,651,125
95	ELMVALE-181-PVC-250mm	1982	100		\$ 46,920	2062	56	\$ 142,222	2162	100	\$ 1,030,350	2262	100	\$ 7,464,522
65	ELMVALE-182-PVC-250mm	1982	100		\$ 33,150	2062	56	\$ 100,483	2162	100	\$ 727,965	2262	100	\$ 5,273,847
39	ELMVALE-37-PVC-350mm	1982	100		\$ 19,890	2062	56	\$ 60,290	2162	100	\$ 436,779	2262	100	\$ 3,164,308
90	ELMVALE-158-Unknown-100mm	1982	100		\$ 45,900	2062	56	\$ 139,130	2162	100	\$ 1,007,951	2262	100	\$ 7,302,249
20	ELMVALE-159-Unknown-100mm	1982	100		\$ 10,200	2062	56	\$ 30,918	2162	100	\$ 223,989	2262	100	\$ 1,622,722
32	ELMVALE-203-Unknown-100mm	1982	100		\$ 16,320	2062	56	\$ 49,469	2162	100	\$ 358,383	2262	100	\$ 2,596,355
45	ELMVALE-214-Unknown-100mm	1982	100		\$ 22,950	2062	56	\$ 69,565	2162	100	\$ 503,976	2262	100	\$ 3,651,125
22	ELMVALE-198-Unknown-100mm	1982	100		\$ 30,600	2062	56	\$ 92,754	2162	100	\$ 674,967	2262	100	\$ 4,868,166
54	ELMVALE-52-Unknown-200mm	1982	100		\$ 54,060	2062	56	\$ 163,865	2162	100	\$ 1,187,142	2262	100	\$ 8,600,427
131	ELMVALE-53-Unknown-200mm	1982	100		\$ 66,810	2062	56	\$ 202,512	2162	100	\$ 1,467,129	2262	100	\$ 10,628,830
92	ELMVALE-143-Unknown-200mm	1982	100		\$ 61,710	2062	56	\$ 187,053	2162	100	\$ 1,355,134	2262	100	\$ 9,817,469
113	ELMVALE-144-Unknown-200mm	1982	100		\$ 37,230	2062	56	\$ 112,850	2162	100	\$ 817,560	2262	100	\$ 5,922,936
73	ELMVALE-201-Unknown-200mm	1982	100		\$ 100,980	2062	56	\$ 306,087	2162	100	\$ 2,217,493	2262	100	\$ 16,064,948
38	ELMVALE-197-Unknown-200mm	1982	100		\$ 36,210	2062	56	\$ 109,758	2162	100	\$ 795,161	2262	100	\$ 5,760,663
71	ELMVALE-200-Unknown-200mm	1982	100		\$ 12,750	2062	56	\$ 38,647	2162	100	\$ 279,986	2262	100	\$ 2,028,403
25	ELMVALE-108-Unknown-200mm	1982	100		\$ 39,780	2062	56	\$ 120,580	2162	100	\$ 873,558	2262	100	\$ 6,328,616
118	ELMVALE-207-Unknown-200mm	1982	100		\$ 60,180	2062	56	\$ 182,416	2162	100	\$ 1,321,536	2262	100	\$ 9,574,060
31	ELMVALE-86-AC-250mm	1984	100		\$ 19,380	2064	58	\$ 61,117	2164	100	\$ 442,773	2264	100	\$ 3,207,732
121	ELMVALE-86-AC-350mm	1984	100		\$ 15,810	2064	58	\$ 49,859	2164	100	\$ 361,209	2264	100	\$ 2,616,834
31	ELMVALE-78-AC-350mm	1984	100		\$ 15,810	2064	58	\$ 49,859	2164	100	\$ 361,209	2264	100	\$ 2,616,834
53	ELMVALE-79-AC-350mm	1984	100		\$ 27,030	2064	58	\$ 85,242	2164	100	\$ 617,552	2264	100	\$ 4,473,942
63	ELMVALE-80-AC-350mm	1984	100		\$ 32,130	2064	58	\$ 101,326	2164	100	\$ 734,071	2264	100	\$ 5,318,082
70	ELMVALE-81-AC-350mm	1984	100		\$ 35,700	2064	58	\$ 112,584	2164	100	\$ 815,634	2264	100	\$ 5,908,980
101	ELMVALE-82-AC-350mm	1984	100		\$ 51,510	2064	58	\$ 162,443	2164	100	\$ 1,176,843	2264	100	\$ 8,525,814
41	ELMVALE-83-AC-350mm	1984	100		\$ 20,910	2064	58	\$ 65,942	2164	100	\$ 477,729	2264	100	\$ 3,460,974
41	ELMVALE-84-AC-350mm	1984	100		\$ 7,140	2064	58	\$ 22,517	2164	100	\$ 163,127	2264	100	\$ 1,181,796
14	ELMVALE-147-Unknown-52.5mm	1964	100		\$ 6,120	2064	58	\$ 19,300	2164	100	\$ 139,823	2264	100	\$ 1,012,968
118	ELMVALE-148-Unknown-52.5mm	1964	100		\$ 16,830	2071	65	\$ 60,967	2171	100	\$ 441,685	2271	100	\$ 3,199,850
33	ELMVALE-190-AC-125mm	1971	100		\$ 60,180	2071	65	\$ 197,681	2171	100	\$ 1,579,358	2271	100	\$ 11,441,888
53	ELMVALE-88-AC-200mm	1971	100		\$ 27,030	2071	65	\$ 97,917	2171	100	\$ 709,373	2271	100	\$ 5,139,153
112	ELMVALE-90-AC-200mm	1971	100		\$ 57,120	2071	65	\$ 184,867	2171	100	\$ 1,432,130	2271	100	\$ 10,375,272
52	ELMVALE-153-AC-200mm	1971	100		\$ 26,520	2071	65	\$ 86,069	2171	100	\$ 649,051	2271	100	\$ 4,774,097
91	ELMVALE-89-AC-250mm	1971	100		\$ 46,410	2071	65	\$ 144,821	2171	100	\$ 1,109,958	2271	100	\$ 8,233,829
71	ELMVALE-93-AC-250mm	1971	100		\$ 36,210	2071	65	\$ 111,772	2171	100	\$ 850,292	2271	100	\$ 6,884,526
11	ELMVALE-94-AC-250mm	1971	100		\$ 5,610	2071	65	\$ 17,322	2171	100	\$ 147,228	2271	100	\$ 1,066,617
99	ELMVALE-96-AC-250mm	1971	100		\$ 39,270	2071	65	\$ 122,556	2171	100	\$ 950,292	2271	100	\$ 7,466,317
99	ELMVALE-96-AC-250mm	1971	100		\$ 50,490	2071	65	\$ 162,901	2171	100	\$ 1,325,594	2271	100	\$ 9,599,550
112	ELMVALE-100-AC-250mm	1971	100		\$ 57,120	2071	65	\$ 184,867	2171	100	\$ 1,432,130	2271	100	\$ 11,441,888
106	ELMVALE-101-AC-250mm	1971	100		\$ 54,060	2071	65	\$ 169,834	2171	100	\$ 1,298,051	2271	100	\$ 9,875,097
64	ELMVALE-165-AC-250mm	1971	100		\$ 34,170	2071	65	\$ 107,512	2171	100	\$ 815,634	2271	100	\$ 5,908,980
34	ELMVALE-166-AC-250mm	1971	100		\$ 17,340	2071	65	\$ 54,021	2171	100	\$ 418,745	2271	100	\$ 3,296,815
59	ELMVALE-167-AC-250mm	1971	100		\$ 30,090	2071	65	\$ 94,275	2171	100	\$ 725,069	2271	100	\$ 5,249,665
74	ELMVALE-170-AC-250mm	1971	100		\$ 37,740	2071	65	\$ 116,714	2171	100	\$ 980,445	2271	100	\$ 7,175,421
30	ELMVALE-184-AC-100mm	1972	100		\$ 15,300	2072	66	\$ 56,533	2172	100	\$ 409,562	2272	100	\$ 2,967,134

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Qty. (m)	Inventory Material/Diameter (mm)	Year Installed	Life Expect.	Overdue	2006 Replacement Cost	First Cycle		Second Cycle		Third Cycle							
						Year of First Replace.	No. of Payments	Replaces. Amount \$	Annual Provision \$	Year of Second Replace.	No. of Payments	Replaces. Amount \$	Annual Provision \$	Year of Third Replace.	No. of Payments	Replaces. Amount \$	Annual Provision \$
127	ELMVALE-104-AC-200mm	1972	100		\$ 64,170	2072	66	\$ 239,323	\$ 778	2172	100	\$ 1,733,814	\$ 1,401	2272	100	\$ 12,560,866	\$ 10,149
84	ELMVALE-105-AC-200mm	1972	100		\$ 42,840	2072	66	\$ 158,293	\$ 514	2172	100	\$ 1,146,774	\$ 927	2272	100	\$ 8,307,974	\$ 6,713
42	ELMVALE-185-AC-200mm	1972	100		\$ 21,420	2072	66	\$ 79,146	\$ 257	2172	100	\$ 573,387	\$ 463	2272	100	\$ 4,153,987	\$ 3,356
21	ELMVALE-102-AC-250mm	1972	100		\$ 61,710	2072	66	\$ 228,017	\$ 741	2172	100	\$ 1,651,901	\$ 1,335	2272	100	\$ 11,967,439	\$ 9,670
85	ELMVALE-103-AC-250mm	1972	100		\$ 43,350	2072	66	\$ 160,177	\$ 520	2172	100	\$ 1,160,426	\$ 938	2272	100	\$ 8,406,879	\$ 6,793
110	ELMVALE-23-AC-250mm	1972	100		\$ 56,100	2072	66	\$ 207,288	\$ 674	2172	100	\$ 1,501,728	\$ 1,213	2272	100	\$ 10,879,490	\$ 8,791
53	ELMVALE-97-AC-250mm	1972	100		\$ 27,030	2072	66	\$ 99,875	\$ 325	2172	100	\$ 723,560	\$ 585	2272	100	\$ 5,241,936	\$ 4,235
41	ELMVALE-142-AC-250mm	1972	100		\$ 20,910	2072	66	\$ 77,262	\$ 251	2172	100	\$ 559,735	\$ 452	2272	100	\$ 4,055,983	\$ 3,277
95	ELMVALE-15-Other-200mm	1972	100		\$ 48,450	2072	66	\$ 179,021	\$ 562	2172	100	\$ 1,296,947	\$ 1,048	2272	100	\$ 9,395,923	\$ 7,592
20	ELMVALE-16-Other-200mm	1972	100		\$ 10,200	2072	66	\$ 37,689	\$ 122	2172	100	\$ 273,042	\$ 221	2272	100	\$ 1,978,089	\$ 1,598
78	ELMVALE-17-Other-200mm	1972	100		\$ 39,780	2072	66	\$ 146,986	\$ 478	2172	100	\$ 1,064,862	\$ 860	2272	100	\$ 7,714,548	\$ 6,233
107	ELMVALE-18-Other-200mm	1972	100		\$ 54,570	2072	66	\$ 205,404	\$ 667	2172	100	\$ 1,480,772	\$ 1,180	2272	100	\$ 10,582,777	\$ 8,551
109	ELMVALE-19-Other-200mm	1972	100		\$ 55,590	2072	66	\$ 211,057	\$ 666	2172	100	\$ 1,529,032	\$ 1,235	2272	100	\$ 10,780,586	\$ 8,711
112	ELMVALE-20-Other-200mm	1972	100		\$ 57,120	2072	66	\$ 186,559	\$ 606	2172	100	\$ 1,351,555	\$ 1,092	2272	100	\$ 10,077,299	\$ 8,950
99	ELMVALE-21-Other-200mm	1972	100		\$ 50,490	2072	66	\$ 186,559	\$ 606	2172	100	\$ 1,351,555	\$ 1,092	2272	100	\$ 9,791,541	\$ 7,912
83	ELMVALE-22-Other-200mm	1972	100		\$ 42,330	2072	66	\$ 156,408	\$ 508	2172	100	\$ 1,133,122	\$ 916	2272	100	\$ 8,209,070	\$ 6,633
102	ELMVALE-24-Other-200mm	1972	100		\$ 52,020	2072	66	\$ 192,213	\$ 625	2172	100	\$ 1,392,512	\$ 1,125	2272	100	\$ 10,088,255	\$ 8,151
67	ELMVALE-25-Other-200mm	1972	100		\$ 34,170	2072	66	\$ 126,257	\$ 410	2172	100	\$ 914,689	\$ 739	2272	100	\$ 6,626,599	\$ 5,354
103	ELMVALE-34-Other-200mm	1972	100		\$ 52,530	2072	66	\$ 194,097	\$ 631	2172	100	\$ 1,406,164	\$ 1,136	2272	100	\$ 10,187,159	\$ 8,231
62	ELMVALE-140-Other-200mm	1972	100		\$ 31,620	2072	66	\$ 116,835	\$ 380	2172	100	\$ 846,429	\$ 684	2272	100	\$ 6,132,076	\$ 4,955
13	ELMVALE-141-Unknown-250mm	1972	100		\$ 6,630	2072	66	\$ 24,498	\$ 80	2172	100	\$ 177,477	\$ 143	2272	100	\$ 1,285,758	\$ 1,039
82	ELMVALE-126-AC-200mm	1974	100		\$ 41,820	2074	68	\$ 160,767	\$ 480	2174	100	\$ 1,164,697	\$ 941	2274	100	\$ 8,437,816	\$ 6,818
84	ELMVALE-127-AC-200mm	1974	100		\$ 42,840	2074	68	\$ 164,688	\$ 482	2174	100	\$ 1,193,104	\$ 964	2274	100	\$ 8,643,617	\$ 6,984
84	ELMVALE-128-AC-200mm	1974	100		\$ 42,840	2074	68	\$ 164,688	\$ 482	2174	100	\$ 1,193,104	\$ 964	2274	100	\$ 8,643,617	\$ 6,984
84	ELMVALE-129-AC-200mm	1974	100		\$ 42,840	2074	68	\$ 164,688	\$ 482	2174	100	\$ 1,193,104	\$ 964	2274	100	\$ 8,643,617	\$ 6,984
65	ELMVALE-71-AC-200mm	1975	100		\$ 33,150	2075	69	\$ 129,986	\$ 372	2175	100	\$ 941,700	\$ 761	2275	100	\$ 6,822,283	\$ 5,512
65	ELMVALE-75-AC-200mm	1975	100		\$ 62,220	2075	69	\$ 243,973	\$ 698	2175	100	\$ 1,767,498	\$ 1,428	2275	100	\$ 12,804,901	\$ 10,346
87	ELMVALE-76-AC-200mm	1975	100		\$ 44,370	2075	69	\$ 173,981	\$ 607	2175	100	\$ 1,260,429	\$ 1,018	2275	100	\$ 9,131,364	\$ 7,378
106	ELMVALE-77-AC-200mm	1975	100		\$ 54,060	2075	69	\$ 227,975	\$ 673	2175	100	\$ 1,535,695	\$ 1,241	2275	100	\$ 11,125,569	\$ 9,989
114	ELMVALE-74-AC-250mm	1975	100		\$ 58,140	2075	69	\$ 213,976	\$ 613	2175	100	\$ 1,550,183	\$ 1,253	2275	100	\$ 11,965,235	\$ 9,074
62	ELMVALE-72-AC-300mm	1975	100		\$ 33,150	2075	69	\$ 129,986	\$ 372	2175	100	\$ 941,700	\$ 761	2275	100	\$ 6,822,283	\$ 5,512
66	ELMVALE-73-AC-300mm	1975	100		\$ 48,960	2075	69	\$ 191,979	\$ 550	2175	100	\$ 1,390,818	\$ 1,124	2275	100	\$ 10,075,987	\$ 8,141
96	ELMVALE-149-AC-300mm	1975	100		\$ 33,150	2075	69	\$ 129,986	\$ 372	2175	100	\$ 941,700	\$ 761	2275	100	\$ 6,822,283	\$ 5,512
65	ELMVALE-150-AC-300mm	1975	100		\$ 28,050	2075	69	\$ 109,988	\$ 315	2175	100	\$ 796,823	\$ 644	2275	100	\$ 5,772,701	\$ 4,664
55	ELMVALE-160-AC-300mm	1975	100		\$ 4,080	2075	69	\$ 15,998	\$ 46	2175	100	\$ 115,902	\$ 94	2275	100	\$ 839,666	\$ 678
61	ELMVALE-163-AC-300mm	1978	100		\$ 31,110	2078	72	\$ 129,453	\$ 327	2178	100	\$ 937,842	\$ 758	2278	100	\$ 6,794,331	\$ 5,490
32	ELMVALE-64-AC-200mm	1978	100		\$ 16,320	2078	72	\$ 67,910	\$ 171	2178	100	\$ 491,983	\$ 398	2278	100	\$ 3,564,239	\$ 2,880
26	ELMVALE-109-AC-200mm	1978	100		\$ 17,850	2078	72	\$ 74,276	\$ 188	2178	100	\$ 538,106	\$ 435	2278	100	\$ 3,898,387	\$ 3,150
26	ELMVALE-110-AC-200mm	1978	100		\$ 13,260	2078	72	\$ 55,177	\$ 139	2178	100	\$ 399,736	\$ 323	2278	100	\$ 2,895,945	\$ 2,340
105	ELMVALE-32-AC-200mm	1979	100		\$ 53,550	2079	73	\$ 227,286	\$ 550	2179	100	\$ 1,646,604	\$ 1,330	2279	100	\$ 11,929,064	\$ 9,639
33	ELMVALE-33-AC-200mm	1979	100		\$ 16,830	2079	73	\$ 71,433	\$ 173	2179	100	\$ 517,504	\$ 418	2279	100	\$ 3,749,134	\$ 3,029
84	ELMVALE-65-AC-200mm	1979	100		\$ 42,840	2079	73	\$ 181,829	\$ 440	2179	100	\$ 1,317,283	\$ 1,064	2279	100	\$ 9,543,251	\$ 7,711
81	ELMVALE-66-AC-200mm	1979	100		\$ 41,310	2079	73	\$ 175,335	\$ 425	2179	100	\$ 1,270,237	\$ 1,026	2279	100	\$ 9,202,421	\$ 7,438
49	ELMVALE-67-AC-200mm	1979	100		\$ 24,990	2079	73	\$ 106,067	\$ 257	2179	100	\$ 788,415	\$ 621	2279	100	\$ 5,566,897	\$ 4,498
79	ELMVALE-106-AC-200mm	1979	100		\$ 40,290	2079	73	\$ 171,005	\$ 414	2179	100	\$ 1,238,874	\$ 1,001	2279	100	\$ 8,975,200	\$ 7,252
49	ELMVALE-107-AC-200mm	1979	100		\$ 24,990	2079	73	\$ 106,067	\$ 257	2179	100	\$ 788,415	\$ 621	2279	100	\$ 5,566,897	\$ 4,498
116	ELMVALE-112-AC-200mm	1979	100		\$ 59,160	2079	73	\$ 251,097	\$ 608	2179	100	\$ 1,819,105	\$ 1,470	2279	100	\$ 13,178,775	\$ 10,648
44	ELMVALE-113-AC-200mm	1979	100		\$ 22,440	2079	73	\$ 95,244	\$ 231	2179	100	\$ 690,006	\$ 558	2279	100	\$ 4,988,846	\$ 4,039
79	ELMVALE-114-AC-200mm	1979	100		\$ 41,820	2079	73	\$ 177,499	\$ 430	2179	100	\$ 1,285,919	\$ 1,039	2279	100	\$ 9,316,031	\$ 7,527
82	ELMVALE-115-AC-200mm	1979	100		\$ 55,590	2079	73	\$ 211,005	\$ 414	2179	100	\$ 1,509,332	\$ 1,381	2279	100	\$ 10,975,200	\$ 8,950
109	ELMVALE-116-AC-200mm	1979	100		\$ 52,530	2079	73	\$ 235,944	\$ 540	2179	100	\$ 1,709,332	\$ 1,381	2279	100	\$ 12,383,504	\$ 10,006
103	ELMVALE-117-AC-200mm	1979	100		\$ 61,200	2079	73	\$ 257,555	\$ 629	2179	100	\$ 1,881,833	\$ 1,521	2279	100	\$ 13,633,216	\$ 11,016
86	ELMVALE-118-AC-200mm	1979	100		\$ 43,860	2079	73	\$ 166,158	\$ 451	2179	100	\$ 1,348,647	\$ 1,090	2279	100	\$ 9,770,471	\$ 7,895
84	ELMVALE-120-AC-200mm	1979	100		\$ 42,840	2079	73	\$ 181,829	\$ 440	2179	100	\$ 1,317,283	\$ 1,064	2279	100	\$ 9,543,251	\$ 7,711

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Table with columns: Qty. (m), Year Installed, Life Expect., Overdue, 2006 Replacement Cost, Year of First Replace., No. of Payments, First Cycle Replace. Amount, Annual Provision, Year of Second Replace., No. of Payments, Second Cycle Replace. Amount, Annual Provision, Year of Third Replace., No. of Payments, Third Cycle Replace. Amount, Annual Provision.

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Qty. (m)	Inventory Material, Diameter (mm)	Year Installed	Life Expect.	Overdue	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle		
						Year of First Replace.	No. of Payments	Replaces. Amount \$	Year of Second Replace.	No. of Payments	Replaces. Amount \$	Year of Third Replace.	No. of Payments	Replaces. Amount \$
55	ELMVALE-28-PVC-250mm	1987	100		\$ 28,050	2097	91	\$ 170,039	2197	100	\$ 1,231,872	2297	100	\$ 8,924,479
56	ELMVALE-29-PVC-250mm	1987	100		\$ 28,560	2097	91	\$ 173,131	2197	100	\$ 1,254,270	2297	100	\$ 9,086,742
61	ELMVALE-30-PVC-250mm	1987	100		\$ 31,110	2097	91	\$ 188,589	2197	100	\$ 1,366,258	2297	100	\$ 9,898,058
34	ELMVALE-31-PVC-250mm	1987	100		\$ 17,340	2097	91	\$ 105,115	2197	100	\$ 781,521	2297	100	\$ 5,516,950
88	ELMVALE-38-PVC-250mm	1987	100		\$ 44,880	2097	91	\$ 272,062	2197	100	\$ 1,970,996	2297	100	\$ 14,279,166
45	ELMVALE-55-PVC-250mm	1987	100		\$ 22,950	2097	91	\$ 139,123	2197	100	\$ 1,007,895	2297	100	\$ 7,301,846
45	ELMVALE-56-PVC-250mm	1987	100		\$ 22,950	2097	91	\$ 139,123	2197	100	\$ 1,007,895	2297	100	\$ 7,301,846
99	ELMVALE-57-PVC-250mm	1987	100		\$ 50,490	2097	91	\$ 306,070	2197	100	\$ 2,217,370	2297	100	\$ 16,064,061
90	ELMVALE-58-PVC-250mm	1987	100		\$ 45,900	2097	91	\$ 278,246	2197	100	\$ 2,015,791	2297	100	\$ 14,603,692
29	ELMVALE-59-PVC-250mm	1987	100		\$ 36,720	2097	91	\$ 222,596	2197	100	\$ 1,612,633	2297	100	\$ 11,682,954
97	ELMVALE-60-PVC-250mm	1987	100		\$ 14,790	2097	91	\$ 89,657	2197	100	\$ 649,633	2297	100	\$ 4,705,634
105	ELMVALE-61-PVC-250mm	1987	100		\$ 49,470	2097	91	\$ 299,887	2197	100	\$ 2,172,575	2297	100	\$ 15,739,635
42	ELMVALE-62-PVC-250mm	1987	100		\$ 53,550	2097	91	\$ 324,820	2197	100	\$ 2,351,756	2297	100	\$ 17,037,641
107	ELMVALE-63-PVC-250mm	1987	100		\$ 21,420	2097	91	\$ 129,848	2197	100	\$ 940,702	2297	100	\$ 6,815,056
		2000	100		\$ 54,570	2100	94	\$ 351,051	2200	100	\$ 2,543,240	2300	100	\$ 18,424,871
					\$			\$			\$			\$

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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Manholes & Pumping Stations

Inflation 2%
 Long-term Investment 4%
 Percentage of Life Over Which Payments Made 100% (applies only to assets with lifespan >= 10 years)
 Extend Life of "Overdue" facilities by 10 years (1 is minimum acceptable value)

Qty.	Inventory Type or Name	Year Installed	Life Expect.	Overdue	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle			
						Year of First Replace.	No. of Payments	Replace. Amount \$	Year of Second Replace.	No. of Payments	Replace. Amount \$	Year of Third Replace.	No. of Payments	Replace. Amount \$	Annual Provision
67	Manholes	1982	75		\$ 410,040	2037	31	\$ 757,585	2112	75	\$ 3,345,372	2187	75	\$ 14,772,613	\$ 32,928
8	Manholes	1964	75		\$ 48,960	2039	33	\$ 94,112	2114	75	\$ 415,585	2189	75	\$ 1,835,155	\$ 4,091
18	Manholes	1971	75		\$ 110,160	2046	40	\$ 243,238	2121	75	\$ 1,074,097	2196	75	\$ 4,743,038	\$ 10,572
23	Manholes	1972	75		\$ 140,760	2047	41	\$ 317,020	2122	75	\$ 1,399,907	2197	75	\$ 6,181,759	\$ 13,779
4	Manholes	1974	75		\$ 24,480	2049	43	\$ 57,361	2124	75	\$ 253,298	2199	75	\$ 1,118,522	\$ 2,493
13	Manholes	1975	75		\$ 79,560	2050	44	\$ 190,153	2125	75	\$ 839,683	2200	75	\$ 3,707,901	\$ 8,265
2	Manholes	1978	75		\$ 12,240	2053	47	\$ 31,045	2128	75	\$ 137,089	2203	75	\$ 605,362	\$ 1,349
42	Manholes	1979	75		\$ 257,040	2054	48	\$ 664,981	2129	75	\$ 2,936,445	2204	75	\$ 12,966,857	\$ 28,903
2	Manholes	1985	75		\$ 12,240	2060	54	\$ 35,681	2135	75	\$ 157,472	2210	75	\$ 695,371	\$ 1,550
8	Manholes	1986	75		\$ 48,960	2061	55	\$ 145,496	2136	75	\$ 642,486	2211	75	\$ 2,837,113	\$ 6,324
9	Manholes	1984	75		\$ 42,840	2069	63	\$ 149,163	2144	75	\$ 658,678	2219	75	\$ 2,908,614	\$ 6,483
9	Manholes	1985	75		\$ 55,080	2070	64	\$ 195,616	2145	75	\$ 863,809	2220	75	\$ 3,814,439	\$ 8,502
14	Manholes	1987	75		\$ 85,680	2072	66	\$ 316,585	2147	75	\$ 1,397,989	2222	75	\$ 6,173,288	\$ 13,760
3	Manholes	2000	75		\$ 18,360	2075	69	\$ 71,992	2150	75	\$ 317,905	2225	75	\$ 1,403,816	\$ 3,129
252	Service Laterals	1982	50		\$ 514,080	2012	6	\$ 578,938	2062	50	\$ 1,568,261	2112	50	\$ 4,194,198	\$ 27,473
30	Service Laterals	1984	50		\$ 61,200	2014	8	\$ 71,706	2064	50	\$ 193,002	2114	50	\$ 519,481	\$ 3,403
67	Service Laterals	1971	50		\$ 136,680	2021	15	\$ 183,953	2071	50	\$ 495,126	2121	50	\$ 1,332,676	\$ 8,729
86	Service Laterals	1972	50		\$ 175,440	2022	16	\$ 240,842	2072	50	\$ 648,246	2122	50	\$ 1,744,812	\$ 11,429
17	Service Laterals	1974	50		\$ 34,680	2024	18	\$ 49,532	2074	50	\$ 133,319	2124	50	\$ 358,639	\$ 2,350
50	Service Laterals	1975	50		\$ 102,000	2025	19	\$ 148,595	2075	50	\$ 399,956	2125	50	\$ 1,076,516	\$ 7,051
8	Service Laterals	1978	50		\$ 16,320	2028	22	\$ 25,230	2078	50	\$ 67,910	2128	50	\$ 182,785	\$ 1,197
159	Service Laterals	1979	50		\$ 324,360	2029	23	\$ 511,483	2079	50	\$ 1,376,702	2129	50	\$ 3,795,514	\$ 24,272
6	Service Laterals	1985	50		\$ 12,240	2035	29	\$ 21,736	2085	50	\$ 58,505	2135	50	\$ 157,472	\$ 1,031
32	Service Laterals	1986	50		\$ 65,280	2036	30	\$ 118,246	2086	50	\$ 318,269	2136	50	\$ 856,648	\$ 5,611
27	Service Laterals	1984	50		\$ 55,080	2044	38	\$ 116,896	2094	50	\$ 314,636	2144	50	\$ 846,872	\$ 5,547
35	Service Laterals	1985	50		\$ 71,400	2045	39	\$ 154,563	2095	50	\$ 416,019	2145	50	\$ 1,119,753	\$ 7,335
52	Service Laterals	1987	50		\$ 106,080	2047	41	\$ 238,913	2097	50	\$ 643,057	2147	50	\$ 1,730,843	\$ 11,337
5	Service Laterals	2000	50		\$ 10,200	2050	44	\$ 24,379	2100	50	\$ 65,617	2147	50	\$ 176,614	\$ 1,157
1	ELMVALE Pump Station - Structure	1994	75		\$ 204,000	2069	63	\$ 710,299	2144	75	\$ 3,136,562	2150	75	\$ 13,850,541	\$ 30,873
1	ELMVALE Pump Station - Structure	1994	75		\$ 153,000	2044	38	\$ 324,712	2084	75	\$ 873,990	2144	75	\$ 2,352,421	\$ 15,409
1	ELMVALE Lift Station - Structure	1984	75		\$ 204,000	2069	63	\$ 710,299	2144	75	\$ 3,136,562	2144	75	\$ 13,850,541	\$ 30,873
1	ELMVALE Lift Station - Equipment	1984	75		\$ 153,000	2044	38	\$ 324,712	2084	75	\$ 873,990	2144	75	\$ 2,352,421	\$ 15,409

TOWNSHIP OF SPRINGWATER
BACKGROUND REPORT - PURSUANT TO BILL 175
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CALCULATION OF ANNUAL REPLACEMENT PROVISION (END OF YEAR ANALYSIS)

Wastewater Treatment

Inflation Long-term Investment Percentage of Life Over Which Payments Made Extend Life of "Overdue" facilities by	2% 4% 100% (applies only to assets with lifespan >= 10 years) 10 years (1 is minimum acceptable value)
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Identification	Inventory Type or Name	Year Installed	Life Expect.	Overdue	2006 Replacement Cost	First Cycle			Second Cycle			Third Cycle		
						Year of First Replace.	No. of Payments	Replace. Amount \$	Year of Second Replace.	No. of Payments	Replace. Amount \$	Year of Third Replace.	No. of Payments	Replace. Amount \$
Large Plant		1984	75	\$	15,300,000	2069	63	\$ 53,272,399	2144	75	\$ 235,242,147	2219	75	\$ 1,038,790,612
								\$ 196,701			\$ 524,355			\$ 2,315,466

TOWNSHIP OF SPRINGWATER
BACKGROUND REPORT - PURSUANT TO BILL 175
APPENDIX C - PAGE 33

SUMMARY OF ANNUAL REPLACEMENT PROVISION FOR EXISTING INVENTORY

INVENTORY COMPONENT	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
WATER RELATED INVENTORY																					
Watermain	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699
Water Supply	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320
Water Hydrants	\$ 49,174	\$ 49,174	\$ 49,174	\$ 49,174	\$ 49,174	\$ 49,174	\$ 49,174	\$ 49,174	\$ 49,174	\$ 49,174	\$ 49,174	\$ 49,174	\$ 49,174	\$ 49,174	\$ 49,174	\$ 49,174	\$ 49,174	\$ 49,174	\$ 49,174	\$ 49,174	\$ 49,174
Water Distribution	\$ 192,974	\$ 192,974	\$ 192,974	\$ 192,974	\$ 192,974	\$ 192,974	\$ 192,974	\$ 192,974	\$ 192,974	\$ 192,974	\$ 192,974	\$ 192,974	\$ 192,974	\$ 192,974	\$ 192,974	\$ 192,974	\$ 192,974	\$ 192,974	\$ 192,974	\$ 192,974	\$ 192,974
Water Meters and Connections	\$ 202,494	\$ 202,494	\$ 202,494	\$ 202,494	\$ 202,494	\$ 202,494	\$ 202,494	\$ 202,494	\$ 202,494	\$ 202,494	\$ 202,494	\$ 202,494	\$ 202,494	\$ 202,494	\$ 202,494	\$ 202,494	\$ 202,494	\$ 202,494	\$ 202,494	\$ 202,494	\$ 202,494
Water Misc.	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280
TOTAL WATER	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940
WASTEWATER RELATED INVENTORY																					
Wastewater Mains	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893
Manholes & Pumping Stations	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822
Wastewater Treatment	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701
Cutfall	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Wastewater Assets	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Wastewater Misc.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL WASTEWATER	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416
TOTAL WATER AND WASTEWATER	\$ 1,618,356	\$ 1,618,356	\$ 1,618,356	\$ 1,618,356	\$ 1,618,356	\$ 1,618,356	\$ 1,618,356	\$ 1,618,356	\$ 1,618,356	\$ 1,618,356	\$ 1,618,356	\$ 1,618,356	\$ 1,618,356	\$ 1,618,356	\$ 1,618,356	\$ 1,618,356	\$ 1,618,356	\$ 1,618,356	\$ 1,618,356	\$ 1,618,356	\$ 1,618,356

SUMMARY OF CAPITAL REPLACEMENT EXPENDITURES FOR EXISTING INVENTORY

INVENTORY COMPONENT	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
WATER RELATED INVENTORY																					
Watermain	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Supply	\$ -	\$ -	\$ -	\$ -	\$ 231,857	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 294,051	\$ -	\$ -	\$ -	\$ -
Water Hydrants	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Distribution	\$ -	\$ -	\$ -	\$ -	\$ 397,469	\$ -	\$ -	\$ -	\$ 59,755	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 67,293	\$ -	\$ -	\$ 214,237	\$ 865,346	\$ -	\$ -
Water Meters and Connections	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 474,452	\$ -	\$ 298,410	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Misc.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 119,509	\$ 474,452	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL WATER	\$ -	\$ -	\$ -	\$ -	\$ 629,326	\$ -	\$ -	\$ 119,509	\$ 534,206	\$ -	\$ 298,410	\$ -	\$ -	\$ -	\$ 67,293	\$ -	\$ 294,051	\$ 514,169	\$ 1,258,685	\$ 312,049	\$ -
WASTEWATER RELATED INVENTORY																					
Wastewater Mains	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Manholes & Pumping Stations	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 578,938	\$ -	\$ 71,706	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Wastewater Treatment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cutfall	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Wastewater Assets	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Wastewater Misc.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL WASTEWATER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 578,938	\$ -	\$ 71,706	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 240,842	\$ -	\$ 49,532	\$ 148,595
TOTAL WATER AND WASTEWATER	\$ -	\$ -	\$ -	\$ 54,122	\$ 629,326	\$ -	\$ 578,938	\$ 119,509	\$ 605,912	\$ -	\$ 298,410	\$ -	\$ -	\$ -	\$ 67,293	\$ 183,953	\$ 534,892	\$ 514,169	\$ 1,308,216	\$ 460,644	\$ 1,236,425

APPENDIX D

Annual Reserve Fund Contributions

TOWNSHIP OF SPRINGWATER
BACKGROUND REPORT - PURSUANT TO BILL 175

APPENDIX D - PAGE 1

WATER REHABILITATION AND REPLACEMENT RESERVE FUND CONTINUITY FOR EXISTING INVENTORY
(SEE BELOW FOR SMOOTHED RATE CONTRIBUTION)

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
ASSUMPTIONS																					
Inflation Rate: 2%	1,000	1,020	1,040	1,061	1,082	1,104	1,126	1,149	1,172	1,195	1,219	1,243	1,268	1,294	1,319	1,346	1,373	1,400	1,428	1,457	
Short Term Borrowing Rate: 6%																					
OPENING BALANCE	\$ -	\$ -	\$ 1,154,579	\$ 2,355,341	\$ 3,604,134	\$ 4,832,164	\$ 5,382,761	\$ 6,597,294	\$ 7,860,408	\$ 9,039,546	\$ 9,797,369	\$ 11,130,395	\$ 12,194,085	\$ 13,604,701	\$ 15,071,741	\$ 16,597,463	\$ 18,114,526	\$ 19,760,910	\$ 21,164,764	\$ 22,387,367	\$ 22,872,040
<small>Opening Balance Item(s) included here since the section only reflects starting balance and the original amount added.</small>																					
CALCULATED ANNUAL CONTRIBUTIONS (BEFORE RATE SMOOTHING)																					
Replacement	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699	\$ 353,699
Watermain	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320	\$ 198,320
Water Supply	\$ 45,174	\$ 45,174	\$ 45,174	\$ 45,174	\$ 45,174	\$ 45,174	\$ 45,174	\$ 45,174	\$ 45,174	\$ 45,174	\$ 45,174	\$ 45,174	\$ 45,174	\$ 45,174	\$ 45,174	\$ 45,174	\$ 45,174	\$ 45,174	\$ 45,174	\$ 45,174	\$ 45,174
Water Hydrants	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280
Water Meters and Connections	\$ 202,484	\$ 202,484	\$ 202,484	\$ 202,484	\$ 202,484	\$ 202,484	\$ 202,484	\$ 202,484	\$ 202,484	\$ 202,484	\$ 202,484	\$ 202,484	\$ 202,484	\$ 202,484	\$ 202,484	\$ 202,484	\$ 202,484	\$ 202,484	\$ 202,484	\$ 202,484	\$ 202,484
Water Misc.	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280	\$ 135,280
Total Replacement	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,116,735	\$ 979,630	\$ 979,630	\$ 979,630	\$ 979,630	\$ 922,678	\$ 922,678	\$ 904,757	\$ 904,757	\$ 904,757	\$ 904,757	\$ 904,757	\$ 903,729	\$ 895,440	\$ 882,808	\$ 855,919	\$ 850,143	
CALCULATED ANNUAL CONTRIBUTIONS	\$ 1,131,940	\$ 1,131,940	\$ 1,131,940	\$ 1,116,735	\$ 979,630	\$ 979,630	\$ 979,630	\$ 979,630	\$ 922,678	\$ 922,678	\$ 904,757	\$ 904,757	\$ 904,757	\$ 904,757	\$ 904,757	\$ 903,729	\$ 895,440	\$ 882,808	\$ 855,919	\$ 850,143	
CAPITAL EXPENDITURE																					
Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Watermain	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Supply	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Hydrants	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Distribution	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Meters and Connections	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Misc.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL CAPITAL EXPENDITURE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
INTEREST ON OPENING BALANCE	\$ -	\$ 46,183	\$ 94,214	\$ 144,165	\$ 193,287	\$ 215,310	\$ 265,892	\$ 314,416	\$ 361,892	\$ 391,895	\$ 445,216	\$ 487,763	\$ 544,188	\$ 602,870	\$ 665,899	\$ 724,581	\$ 790,438	\$ 846,591	\$ 895,495	\$ 914,882	
INTEREST ON IN YEAR TRANSACTIONS	\$ 22,639	\$ 22,639	\$ 22,639	\$ 21,252	\$ 7,006	\$ 19,593	\$ 19,593	\$ 16,955	\$ 7,769	\$ 18,454	\$ 12,127	\$ 18,095	\$ 18,095	\$ 18,095	\$ 18,095	\$ 16,729	\$ 18,075	\$ 12,028	\$ 7,373	\$ (8,055)	\$ 10,762
CLOSING BALANCE	\$ 1,154,579	\$ 2,355,341	\$ 3,604,134	\$ 4,832,164	\$ 5,382,761	\$ 6,597,294	\$ 7,860,408	\$ 9,039,546	\$ 9,797,369	\$ 11,130,395	\$ 12,194,085	\$ 13,604,701	\$ 15,071,741	\$ 16,597,463	\$ 18,114,526	\$ 19,760,910	\$ 21,164,764	\$ 22,387,367	\$ 22,872,040	\$ 24,335,777	

TOWNSHIP OF SPRINGWATER
 BACKGROUND REPORT - PURSUANT TO BILL 175

APPENDIX D - PAGE 2

WATER REHABILITATION AND REPLACEMENT RESERVE FUND CONTINUITY
 BASED ON EVEN ANNUAL RATE INCREASE (AFTER SMOOTHING)

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
WATER FLOWS																				
RESIDENTIAL																				
0 - 15 cubic metres / month	446,409	460,592	474,984	488,639	502,463	516,466	530,688	545,171	561,867	578,803	596,086	613,620	631,394	649,108	667,171	685,483	704,095	723,006	741,848	760,939
16 - 30 cubic metres / month	244,319	252,082	259,964	267,432	274,998	282,662	290,446	298,372	307,510	316,779	326,238	335,834	345,562	355,257	365,142	375,165	385,351	395,701	406,014	416,482
31 - 45 cubic metres / month	81,456	84,004	86,672	89,162	91,684	94,240	96,835	99,477	102,524	105,614	108,768	111,967	115,211	118,443	121,739	125,080	128,476	131,927	135,365	138,849
45+ cubic metres / month	816,812	842,763	869,115	894,081	919,231	944,999	971,021	997,520	1,028,071	1,059,059	1,090,662	1,122,765	1,155,287	1,187,699	1,220,748	1,254,257	1,288,310	1,322,912	1,357,389	1,392,320
Total Residential Water Flows	1,614,006	1,645,448	1,671,545	1,698,162	1,724,392	1,750,266	1,775,812	1,801,054	1,826,016	1,850,717	1,875,174	1,900,407	1,925,446	1,950,300	1,974,967	2,000,458	2,025,783	2,050,952	2,076,975	2,102,862
COMMERCIAL																				
0 - 15 cubic metres / month	38,644	39,030	39,420	39,815	40,213	40,615	41,021	41,431	41,845	42,264	42,687	43,113	43,545	43,980	44,420	44,864	45,313	45,766	46,223	46,686
16 - 30 cubic metres / month	12,347	12,471	12,595	12,721	12,849	12,977	13,107	13,238	13,370	13,504	13,639	13,775	13,913	14,052	14,193	14,335	14,478	14,623	14,769	14,917
31 - 45 cubic metres / month	7,546	7,621	7,697	7,774	7,852	7,931	8,010	8,090	8,171	8,253	8,335	8,419	8,503	8,588	8,674	8,760	8,848	8,936	9,026	9,116
45+ cubic metres / month	42,645	43,072	43,502	43,937	44,377	44,821	45,269	45,721	46,179	46,640	47,107	47,578	48,054	48,534	49,020	49,510	50,005	50,505	51,010	51,520
Total Commercial Water Flows	101,182	102,194	103,216	104,248	105,280	106,343	107,407	108,481	109,565	110,661	111,768	112,885	114,014	115,154	116,306	117,469	118,644	119,830	121,028	122,239
TOTAL WATER FLOWS	917,993	944,957	972,331	996,329	1,024,666	1,051,342	1,078,428	1,106,001	1,133,636	1,161,720	1,202,449	1,235,650	1,269,301	1,302,853	1,337,054	1,371,724	1,406,953	1,442,742	1,478,417	1,514,556
WATER RATES (per m3)																				
RESIDENTIAL																				
0 - 15 cubic metres / month	\$ 0.82	\$ 0.84	\$ 0.85	\$ 0.87	\$ 0.89	\$ 0.91	\$ 0.92	\$ 0.94	\$ 0.96	\$ 0.98	\$ 1.00	\$ 1.02	\$ 1.04	\$ 1.06	\$ 1.08	\$ 1.11	\$ 1.13	\$ 1.15	\$ 1.17	\$ 1.20
16 - 30 cubic metres / month	\$ 0.86	\$ 0.88	\$ 0.90	\$ 0.92	\$ 0.93	\$ 0.95	\$ 0.97	\$ 0.99	\$ 1.01	\$ 1.03	\$ 1.05	\$ 1.07	\$ 1.09	\$ 1.12	\$ 1.14	\$ 1.16	\$ 1.18	\$ 1.21	\$ 1.23	\$ 1.26
31 - 45 cubic metres / month	\$ 1.08	\$ 1.10	\$ 1.12	\$ 1.14	\$ 1.16	\$ 1.18	\$ 1.21	\$ 1.24	\$ 1.26	\$ 1.29	\$ 1.31	\$ 1.34	\$ 1.37	\$ 1.39	\$ 1.42	\$ 1.45	\$ 1.48	\$ 1.51	\$ 1.54	\$ 1.57
45+ cubic metres / month	\$ 1.31	\$ 1.34	\$ 1.37	\$ 1.40	\$ 1.43	\$ 1.47	\$ 1.50	\$ 1.54	\$ 1.58	\$ 1.62	\$ 1.66	\$ 1.70	\$ 1.74	\$ 1.78	\$ 1.82	\$ 1.86	\$ 1.90	\$ 1.94	\$ 1.98	\$ 2.02
COMMERCIAL																				
0 - 15 cubic metres / month	\$ 0.82	\$ 0.84	\$ 0.85	\$ 0.87	\$ 0.89	\$ 0.91	\$ 0.92	\$ 0.94	\$ 0.96	\$ 0.98	\$ 1.00	\$ 1.02	\$ 1.04	\$ 1.06	\$ 1.08	\$ 1.11	\$ 1.13	\$ 1.15	\$ 1.17	\$ 1.20
16 - 30 cubic metres / month	\$ 0.82	\$ 0.84	\$ 0.85	\$ 0.87	\$ 0.89	\$ 0.91	\$ 0.92	\$ 0.94	\$ 0.96	\$ 0.98	\$ 1.00	\$ 1.02	\$ 1.04	\$ 1.06	\$ 1.08	\$ 1.11	\$ 1.13	\$ 1.15	\$ 1.17	\$ 1.20
31 - 45 cubic metres / month	\$ 0.82	\$ 0.84	\$ 0.85	\$ 0.87	\$ 0.89	\$ 0.91	\$ 0.92	\$ 0.94	\$ 0.96	\$ 0.98	\$ 1.00	\$ 1.02	\$ 1.04	\$ 1.06	\$ 1.08	\$ 1.11	\$ 1.13	\$ 1.15	\$ 1.17	\$ 1.20
45+ cubic metres / month	\$ 0.82	\$ 0.84	\$ 0.85	\$ 0.87	\$ 0.89	\$ 0.91	\$ 0.92	\$ 0.94	\$ 0.96	\$ 0.98	\$ 1.00	\$ 1.02	\$ 1.04	\$ 1.06	\$ 1.08	\$ 1.11	\$ 1.13	\$ 1.15	\$ 1.17	\$ 1.20
WATER REVENUE																				
RESIDENTIAL																				
0 - 15 cubic metres / month	\$ 386,611.35	\$ 385,824.40	\$ 405,646.35	\$ 425,854.70	\$ 446,660.63	\$ 468,291.24	\$ 490,810.40	\$ 514,288.62	\$ 540,640.25	\$ 568,075.16	\$ 596,738.04	\$ 626,572.53	\$ 657,621.22	\$ 689,992.45	\$ 722,957.21	\$ 757,656.90	\$ 793,792.73	\$ 831,415.03	\$ 870,444.69	\$ 910,387.38
16 - 30 cubic metres / month	\$ 210,678.63	\$ 221,719.69	\$ 233,225.60	\$ 244,723.69	\$ 256,543.55	\$ 268,924.48	\$ 292,051.47	\$ 293,543.55	\$ 310,686.90	\$ 326,452.78	\$ 342,924.33	\$ 360,077.03	\$ 377,911.75	\$ 396,284.49	\$ 415,498.04	\$ 435,398.73	\$ 456,164.72	\$ 477,784.93	\$ 500,041.50	\$ 523,167.55
31 - 45 cubic metres / month	\$ 67,800.36	\$ 72,401.94	\$ 77,197.04	\$ 82,196.89	\$ 87,491.74	\$ 93,087.63	\$ 98,985.57	\$ 105,187.12	\$ 111,694.90	\$ 118,509.58	\$ 125,633.69	\$ 133,068.44	\$ 140,815.16	\$ 148,875.51	\$ 157,249.02	\$ 165,936.33	\$ 174,937.18	\$ 184,252.88	\$ 193,884.88	\$ 203,832.88
45+ cubic metres / month	\$ 55,222.22	\$ 56,679.89	\$ 58,169.59	\$ 59,695.39	\$ 61,261.44	\$ 62,872.03	\$ 64,531.67	\$ 66,243.72	\$ 68,011.63	\$ 69,838.92	\$ 71,728.31	\$ 73,682.59	\$ 75,705.58	\$ 77,799.18	\$ 80,000.42	\$ 82,320.61	\$ 84,771.26	\$ 87,363.07	\$ 90,006.65	\$ 92,702.62
Total Residential Water Revenue	\$ 732,434.34	\$ 770,815.14	\$ 810,819.59	\$ 850,763.64	\$ 892,360.77	\$ 935,576.49	\$ 980,565.57	\$ 1,027,471.33	\$ 1,080,117.92	\$ 1,134,826.72	\$ 1,192,122.37	\$ 1,251,807.68	\$ 1,313,923.31	\$ 1,377,702.02	\$ 1,444,359.79	\$ 1,513,984.55	\$ 1,585,676.51	\$ 1,661,442.20	\$ 1,739,418.25	\$ 1,818,817.08
COMMERCIAL																				
0 - 15 cubic metres / month	\$ 31,735.80	\$ 32,684.33	\$ 33,681.70	\$ 34,698.88	\$ 35,746.79	\$ 36,826.34	\$ 37,938.50	\$ 39,084.24	\$ 40,264.58	\$ 41,480.57	\$ 42,733.29	\$ 44,023.83	\$ 45,353.35	\$ 46,723.02	\$ 48,134.06	\$ 49,587.71	\$ 51,085.28	\$ 52,628.03	\$ 54,217.40	\$ 55,854.76
16 - 30 cubic metres / month	\$ 10,140.13	\$ 10,446.36	\$ 10,761.84	\$ 11,086.85	\$ 11,421.67	\$ 11,766.60	\$ 12,121.96	\$ 12,488.04	\$ 12,865.18	\$ 13,253.71	\$ 13,653.97	\$ 14,066.32	\$ 14,491.12	\$ 14,928.75	\$ 15,379.60	\$ 15,844.06	\$ 16,322.55	\$ 16,815.50	\$ 17,323.32	\$ 17,846.49
31 - 45 cubic metres / month	\$ 6,196.68	\$ 6,394.03	\$ 6,576.63	\$ 6,775.45	\$ 6,990.06	\$ 7,190.86	\$ 7,408.03	\$ 7,632.75	\$ 7,865.23	\$ 8,095.67	\$ 8,344.28	\$ 8,598.27	\$ 8,858.88	\$ 9,125.33	\$ 9,398.85	\$ 9,682.70	\$ 9,975.12	\$ 10,276.37	\$ 10,586.71	\$ 10,906.43
45+ cubic metres / month	\$ 83,095.13	\$ 85,664.69	\$ 88,169.86	\$ 90,693.19	\$ 93,236.36	\$ 95,799.90	\$ 98,384.39	\$ 100,989.32	\$ 103,615.16	\$ 106,262.39	\$ 108,930.51	\$ 111,629.18	\$ 114,357.98	\$ 117,117.51	\$ 119,908.28	\$ 122,730.86	\$ 125,585.84	\$ 128,473.71	\$ 131,394.97	\$ 134,349.11
Total Commercial Water Revenue	\$ 131,168.72	\$ 135,186.41	\$ 139,380.15	\$ 143,759.62	\$ 148,323.88	\$ 153,084.59	\$ 158,042.26	\$ 163,208.86	\$ 168,586.13	\$ 174,175.14	\$ 179,987.37	\$ 186,034.29	\$ 192,327.28	\$ 198,878.29	\$ 205,698.82	\$ 212,791.43	\$ 220,168.47	\$ 227,843.41	\$ 235,829.29	\$ 244,138.77
TOTAL WATER RATE REVENUE	\$ 863,603.06	\$ 905,991.55	\$ 950,209.74	\$ 994,523.26	\$ 1,039,684.61	\$ 1,086,661.08	\$ 1,135,467.83	\$ 1,186,280.79	\$ 1,239,704.05	\$ 1,296,402.86	\$ 1,356,439.74	\$ 1,419,841.97	\$ 1,486,658.59	\$ 1,557,005.80	\$ 1,631,151.21	\$ 1,709,376.02	\$ 1,791,864.99	\$ 1,878,817.61	\$ 1,970,547.54	\$ 2,067,306.25
ANNUAL CONTRIBUTION SMOOTHING																				
OPENING BALANCE	\$ 276,171	\$ 1,121,138	\$ 2,039,535	\$ 3,038,107	\$ 4,064,907	\$ 4,591,267	\$ 5,827,557	\$ 7,162,158	\$ 8,479,148	\$ 9,862,679	\$ 11,300,305	\$ 12,601,397	\$ 14,499,871	\$ 16,541,086	\$ 18,732,779	\$ 21,015,250	\$ 23,532,252	\$ 25,927,640	\$ 28,275,110	\$ 30,040,241
Annual Contribution	\$ 815,529	\$ 856,424	\$ 899,010	\$ 941,647	\$ 985,859	\$ 1,031,999	\$ 1,079,901	\$ 1,129,807	\$ 1,185,544	\$ 1,243,539	\$ 1,304,083	\$ 1,367,077	\$ 1,432,578	\$ 1,500,038	\$ 1,570,391	\$ 1,643,522	\$ 1,719,840	\$ 1,798,840	\$ 1,880,377	\$ 1,965,083
Capital Expenditure	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest on Opening Balance	\$ 11,127	\$ 44,846	\$ 81,581	\$ 121,524	\$ 162,396	\$ 213,102	\$ 286,486	\$ 339,166	\$ 379,307	\$ 445,216	\$ 504,056	\$ 661,644	\$ 749,311	\$ 841,290	\$ 941,290	\$ 1,037,106	\$ 1,130,106	\$ 1,231,004	\$ 1,301,610	\$ 1,201,610
Interest on In Year Transactions	\$ 16,311	\$ 17,128	\$ 17,980	\$ 17,751	\$ 17,133	\$ 20,640	\$ 21,589	\$ 20,286	\$ 13,027	\$ 20,471	\$ 20,113	\$ 27,342	\$ 28,652	\$ 30,001	\$ 30,062	\$ 32,870	\$ 28,512	\$ 25,689	\$ 12,454	\$ 33,680
CLOSING BALANCE	\$ 1,121,138	\$ 2,039,535	\$ 3,038,107	\$ 4,064,907	\$ 4,591,267	\$ 5,827,557	\$ 7,162,158	\$ 8,479,148	\$ 9,862,679	\$ 11,300,305	\$ 12,601,397	\$ 14,499,871	\$ 16,541,086	\$ 18,732,779	\$ 21,015,250	\$ 23,532,252	\$ 25,927,640	\$ 28,275,110	\$ 30,040,241	\$ 32,927,925

TOWNSHIP OF SPRINGWATER
BACKGROUND REPORT - PURSUANT TO BILL 175

APPENDIX D - PAGE 3

WASTEWATER REHABILITATION AND REPLACEMENT RESERVE FUND CONTINUITY FOR EXISTING INVENTORY
(SEE BELOW FOR SMOOTHED RATE CONTRIBUTION)

ASUMPTIONS	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Inflation Rate: 2%	1,000	1,020	1,040	1,061	1,082	1,104	1,126	1,149	1,172	1,195	1,219	1,243	1,268	1,294	1,319	1,346	1,373	1,400	1,428	1,457
Short Term Borrowing Rate: 6%																				
OPENING BALANCE1	\$ -	\$ -	\$ 486,144	\$ 1,012,134	\$ 1,546,763	\$ 2,106,858	\$ 2,687,276	\$ 3,290,911	\$ 3,797,069	\$ 4,286,692	\$ 4,860,039	\$ 5,474,681	\$ 6,104,547	\$ 6,759,609	\$ 7,440,873	\$ 8,149,387	\$ 8,692,547	\$ 9,192,483	\$ 9,958,074	\$ 10,702,688
<small>Opening Balance Item(s) included here since the section only reflects starting balance and does not include the year-end ending balance</small>																				
CALCULATED ANNUAL CONTRIBUTIONS (BEFORE RATE SMOOTHING)																				
Replacement																				
Wastewater Mains	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893	\$ 100,893
Manholes & Pumping Stations	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822	\$ 188,822
Wastewater Treatment	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701	\$ 196,701
Other Wastewater Assets	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Wastewater Misc.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Replacement	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416
CALCULATED ANNUAL CONTRIBUTIONS	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416	\$ 486,416
CAPITAL EXPENDITURE																				
Replacement																				
Wastewater Mains	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Manholes & Pumping Stations	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 576,938	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Wastewater Treatment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Outfall	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Wastewater Assets	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Wastewater Misc.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 576,938	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL CAPITAL EXPENDITURE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 576,938	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
INTEREST ON OPENING BALANCE	\$ -	\$ 19,846	\$ 40,485	\$ 61,951	\$ 84,274	\$ 107,491	\$ 131,636	\$ 129,982	\$ 151,883	\$ 171,468	\$ 194,762	\$ 218,987	\$ 244,182	\$ 270,384	\$ 297,635	\$ 325,975	\$ 347,702	\$ 367,699	\$ 396,323	\$ 428,108
INTEREST ON IN YEAR TRANSACTIONS	\$ 9,728	\$ 9,728	\$ 9,728	\$ 9,728	\$ 9,728	\$ 9,728	\$ (3,392)	\$ 8,187	\$ 6,822	\$ 8,056	\$ 8,056	\$ 8,056	\$ 8,056	\$ 8,056	\$ 8,056	\$ 8,056	\$ 8,056	\$ 8,056	\$ 8,056	\$ 8,056
CLOSING BALANCE	\$ 486,144	\$ 1,012,134	\$ 1,548,763	\$ 2,106,858	\$ 2,687,276	\$ 3,290,911	\$ 3,249,559	\$ 3,797,069	\$ 4,286,692	\$ 4,869,039	\$ 5,474,681	\$ 6,104,547	\$ 6,759,609	\$ 7,440,873	\$ 8,149,387	\$ 8,692,547	\$ 9,192,483	\$ 9,958,074	\$ 10,702,688	\$ 11,373,236

TOWNSHIP OF SPRINGWATER
BACKGROUND REPORT - PURSUANT TO BILL 175

APPENDIX D - PAGE 4

WASTEWATER REHABILITATION AND REPLACEMENT RESERVE FUND CONTINUITY
BASED ON INFLATION ADJUSTED ANNUAL RATE (AFTER SMOOTHING)

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025		
WASTEWATER FLOWS																						
RESIDENTIAL																						
0 - 15 cubic metres / month	111,828	114,547	115,827	117,059	118,491	119,827	121,210	122,798	124,386	126,030	127,720	129,411	131,101	132,796	134,538	136,331	138,124	139,922	141,715			
16 - 30 cubic metres / month	41,962	42,462	43,014	43,622	44,291	44,962	45,642	46,330	47,029	47,738	48,446	49,155	49,864	50,573	51,282	51,991	52,700	53,409	54,118	54,827		
31 - 45 cubic metres / month	3,559	3,602	3,646	3,690	3,734	3,778	3,822	3,866	3,910	3,954	4,000	4,045	4,090	4,135	4,180	4,225	4,270	4,315	4,360	4,405		
45+ cubic metres / month	340	344	348	352	356	360	364	368	373	378	383	388	393	399	404	409	415	420	425	431		
Total Residential Wastewater Flows	157,669	159,567	161,523	163,529	165,507	167,085	168,668	170,919	173,158	175,397	177,715	180,099	182,483	184,866	187,257	189,713	192,241	194,769	197,304	199,832		
COMMERCIAL																						
0 - 15 cubic metres / month	37,295	37,668	38,045	38,425	38,810	39,198	39,590	39,986	40,385	40,789	41,197	41,609	42,025	42,445	42,870	43,299	43,732	44,169	44,611	45,057		
16 - 30 cubic metres / month	8,497	8,592	8,688	8,785	8,842	8,931	9,020	9,110	9,201	9,293	9,386	9,480	9,575	9,671	9,767	9,864	9,962	10,061	10,161	10,265		
31 - 45 cubic metres / month	4,965	5,015	5,065	5,116	5,167	5,218	5,271	5,323	5,377	5,430	5,485	5,539	5,595	5,651	5,707	5,764	5,822	5,880	5,939	5,998		
45+ cubic metres / month	27,994	28,274	28,557	28,842	29,131	29,422	29,716	30,014	30,314	30,617	30,923	31,232	31,545	31,860	32,179	32,500	32,825	33,154	33,485	33,820		
Total Commercial Wastewater Flows	78,752	79,559	80,335	81,138	81,949	82,769	83,597	84,433	85,277	86,130	86,991	87,861	88,739	89,627	90,523	91,428	92,343	93,266	94,199	95,141		
TOTAL WASTEWATER FLOWS	236,421	239,106	241,858	244,667	247,156	249,854	252,565	255,351	258,435	261,527	264,706	267,960	271,222	274,493	277,780	281,141	284,583	288,035	291,503	295,973		
WASTEWATER RATES (per m³)																						
RESIDENTIAL																						
0 - 15 cubic metres / month	\$ 1.31	\$ 1.34	\$ 1.37	\$ 1.39	\$ 1.42	\$ 1.45	\$ 1.48	\$ 1.51	\$ 1.54	\$ 1.57	\$ 1.60	\$ 1.63	\$ 1.66	\$ 1.70	\$ 1.73	\$ 1.77	\$ 1.80	\$ 1.84	\$ 1.87	\$ 1.91		
16 - 30 cubic metres / month	\$ 1.39	\$ 1.41	\$ 1.43	\$ 1.45	\$ 1.47	\$ 1.50	\$ 1.52	\$ 1.55	\$ 1.58	\$ 1.60	\$ 1.63	\$ 1.66	\$ 1.69	\$ 1.72	\$ 1.75	\$ 1.78	\$ 1.81	\$ 1.84	\$ 1.87	\$ 1.91		
31 - 45 cubic metres / month	\$ 1.78	\$ 1.79	\$ 1.80	\$ 1.81	\$ 1.82	\$ 1.83	\$ 1.84	\$ 1.85	\$ 1.86	\$ 1.87	\$ 1.88	\$ 1.89	\$ 1.90	\$ 1.91	\$ 1.92	\$ 1.93	\$ 1.94	\$ 1.95	\$ 1.96	\$ 1.97		
45+ cubic metres / month	\$ 2.41	\$ 2.46	\$ 2.51	\$ 2.56	\$ 2.61	\$ 2.66	\$ 2.72	\$ 2.77	\$ 2.83	\$ 2.88	\$ 2.94	\$ 3.00	\$ 3.06	\$ 3.12	\$ 3.18	\$ 3.25	\$ 3.31	\$ 3.38	\$ 3.44	\$ 3.51		
COMMERCIAL																						
0 - 15 cubic metres / month	\$ 1.31	\$ 1.34	\$ 1.37	\$ 1.39	\$ 1.42	\$ 1.45	\$ 1.48	\$ 1.51	\$ 1.54	\$ 1.57	\$ 1.60	\$ 1.63	\$ 1.66	\$ 1.70	\$ 1.73	\$ 1.77	\$ 1.80	\$ 1.84	\$ 1.87	\$ 1.91		
16 - 30 cubic metres / month	\$ 1.31	\$ 1.34	\$ 1.37	\$ 1.39	\$ 1.42	\$ 1.45	\$ 1.48	\$ 1.51	\$ 1.54	\$ 1.57	\$ 1.60	\$ 1.63	\$ 1.66	\$ 1.70	\$ 1.73	\$ 1.77	\$ 1.80	\$ 1.84	\$ 1.87	\$ 1.91		
31 - 45 cubic metres / month	\$ 1.31	\$ 1.34	\$ 1.37	\$ 1.39	\$ 1.42	\$ 1.45	\$ 1.48	\$ 1.51	\$ 1.54	\$ 1.57	\$ 1.60	\$ 1.63	\$ 1.66	\$ 1.70	\$ 1.73	\$ 1.77	\$ 1.80	\$ 1.84	\$ 1.87	\$ 1.91		
45+ cubic metres / month	\$ 1.31	\$ 1.34	\$ 1.37	\$ 1.39	\$ 1.42	\$ 1.45	\$ 1.48	\$ 1.51	\$ 1.54	\$ 1.57	\$ 1.60	\$ 1.63	\$ 1.66	\$ 1.70	\$ 1.73	\$ 1.77	\$ 1.80	\$ 1.84	\$ 1.87	\$ 1.91		
WASTEWATER REVENUE																						
RESIDENTIAL																						
Annual Contribution	\$ 146,774.52	\$ 151,493.09	\$ 156,416.62	\$ 161,328.92	\$ 166,447.71	\$ 171,706.73	\$ 177,114.82	\$ 182,742.48	\$ 188,639.42	\$ 194,831.78	\$ 201,359.15	\$ 208,240.69	\$ 215,413.23	\$ 222,919.70	\$ 230,799.17	\$ 239,005.40	\$ 246,639.00	\$ 253,648.87	\$ 262,294.01	\$ 270,888.11		
Capital Expenditure	\$ 57,829.73	\$ 59,687.93	\$ 61,627.77	\$ 63,653.12	\$ 65,774.91	\$ 67,991.96	\$ 70,304.64	\$ 72,706.00	\$ 74,202.18	\$ 76,807.64	\$ 79,448.24	\$ 82,124.08	\$ 84,832.19	\$ 87,578.46	\$ 90,364.06	\$ 93,188.95	\$ 96,063.13	\$ 98,986.50	\$ 100,074.92	\$ 103,343.07	\$ 106,760.64	
Interest on In Year Transaction	\$ 820.11	\$ 848.42	\$ 873.98	\$ 901.43	\$ 930.03	\$ 959.42	\$ 989.84	\$ 1,021.08	\$ 1,053.15	\$ 1,086.07	\$ 1,119.87	\$ 1,154.57	\$ 1,190.18	\$ 1,226.71	\$ 1,264.18	\$ 1,302.62	\$ 1,342.06	\$ 1,382.53	\$ 1,424.06	\$ 1,466.68	\$ 1,510.40	
Total Residential Wastewater Revenue	\$ 211,554.48	\$ 218,356.14	\$ 226,453.01	\$ 232,453.12	\$ 239,911.15	\$ 247,491.28	\$ 255,268.44	\$ 263,397.79	\$ 272,185.66	\$ 281,218.69	\$ 290,634.70	\$ 300,423.37	\$ 310,483.11	\$ 320,834.87	\$ 331,482.87	\$ 342,547.09	\$ 354,054.53	\$ 365,984.84	\$ 378,080.21	\$ 390,382.71		
COMMERCIAL																						
Annual Contribution	\$ 48,950.16	\$ 50,428.46	\$ 51,951.40	\$ 53,520.33	\$ 55,136.65	\$ 56,801.77	\$ 58,517.19	\$ 60,284.40	\$ 62,103.99	\$ 63,976.56	\$ 65,912.78	\$ 67,903.34	\$ 69,954.02	\$ 72,066.64	\$ 74,243.05	\$ 76,485.19	\$ 78,795.04	\$ 81,174.65	\$ 83,626.13	\$ 86,151.63		
Capital Expenditure	\$ 11,152.51	\$ 11,489.32	\$ 11,836.30	\$ 12,193.75	\$ 12,562.01	\$ 12,941.38	\$ 13,322.11	\$ 13,704.84	\$ 14,090.93	\$ 14,480.93	\$ 14,874.50	\$ 15,271.31	\$ 15,671.06	\$ 16,073.44	\$ 16,478.14	\$ 16,885.91	\$ 17,296.52	\$ 17,710.72	\$ 18,128.31	\$ 18,549.18	\$ 18,973.10	
Interest on In Year Transaction	\$ 36,765.45	\$ 37,848.75	\$ 38,935.55	\$ 40,127.82	\$ 41,386.48	\$ 42,653.94	\$ 43,933.46	\$ 45,259.73	\$ 46,643.59	\$ 48,078.14	\$ 49,556.47	\$ 51,078.56	\$ 52,646.07	\$ 54,259.56	\$ 55,919.61	\$ 57,627.89	\$ 59,384.99	\$ 61,191.46	\$ 63,048.87	\$ 64,957.69	\$ 66,918.52	
Total Commercial Wastewater Revenue	\$ 105,365.92	\$ 108,488.46	\$ 109,699.25	\$ 113,121.17	\$ 116,425.13	\$ 119,841.17	\$ 123,553.40	\$ 127,255.01	\$ 131,139.32	\$ 135,098.73	\$ 139,179.74	\$ 143,382.87	\$ 147,713.13	\$ 152,174.07	\$ 156,769.73	\$ 161,504.17	\$ 166,381.60	\$ 171,406.32	\$ 176,582.80	\$ 181,915.60		
TOTAL WASTEWATER RATE REVENUE	\$ 314,916.80	\$ 324,839.59	\$ 335,152.26	\$ 345,546.28	\$ 356,336.28	\$ 367,432.46	\$ 378,849.83	\$ 390,682.80	\$ 403,324.98	\$ 416,319.42	\$ 429,814.44	\$ 443,806.72	\$ 458,201.24	\$ 473,008.94	\$ 488,252.60	\$ 504,051.27	\$ 520,435.93	\$ 537,291.16	\$ 554,643.01	\$ 572,478.31		
ANNUAL CONTRIBUTION SMOOTHING																						
OPENING BALANCE	\$ 276,171	\$ 610,513	\$ 966,270	\$ 1,346,776	\$ 1,753,103	\$ 2,186,690	\$ 2,648,939	\$ 3,051,346	\$ 3,511,651	\$ 4,076,763	\$ 4,678,245	\$ 5,318,057	\$ 5,998,145	\$ 6,720,540	\$ 7,487,379	\$ 8,113,374	\$ 8,723,095	\$ 9,320,056	\$ 9,920,056	\$ 10,520,072		
Annual Contribution	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Capital Expenditure	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Interest on Opening Balance	\$ 11,127	\$ 24,421	\$ 38,651	\$ 53,871	\$ 70,124	\$ 87,468	\$ 105,958	\$ 122,052	\$ 138,904	\$ 156,486	\$ 174,832	\$ 193,992	\$ 213,895	\$ 234,582	\$ 256,082	\$ 278,432	\$ 301,682	\$ 325,872	\$ 351,042	\$ 377,232	\$ 420,803	
Interest on In Year Transaction	\$ 6,298	\$ 6,497	\$ 6,703	\$ 6,911	\$ 7,127	\$ 7,349	\$ 7,574	\$ 7,814	\$ 8,062	\$ 8,320	\$ 8,586	\$ 8,864	\$ 9,154	\$ 9,460	\$ 9,785	\$ 10,130	\$ 10,495	\$ 10,880	\$ 11,285	\$ 11,710	\$ 12,155	
CLOSING BALANCE	\$ 610,513	\$ 966,270	\$ 1,346,776	\$ 1,753,103	\$ 2,186,690	\$ 2,648,939	\$ 3,051,346	\$ 3,511,651	\$ 4,076,763	\$ 4,678,245	\$ 5,318,057	\$ 5,998,145	\$ 6,720,540	\$ 7,487,379	\$ 8,113,374	\$ 8,723,095	\$ 9,320,056	\$ 9,920,056	\$ 10,520,072	\$ 11,135,236		

APPENDIX E

*Water & Wastewater System
Expenditures & Revenues*

**TOWNSHIP OF SPRINGWATER
BACKGROUND REPORT - SUPPLEMENT TO BILL 175
APPENDIX E - PAGE 1
WATER SYSTEM EXPENDITURE & REVENUE (EXCL. CONSUMPTION BASED REVENUE)**

EXPENDITURE	Existing	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Operating Expense																					
Regular Salaries Distribution	\$ 14,706	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,238	\$ 16,561	\$ 16,862	\$ 17,090	\$ 17,675	\$ 17,695	\$ 18,295	\$ 18,651	\$ 19,254	\$ 19,484	\$ 19,792	\$ 20,188	\$ 20,562	\$ 21,004	\$ 21,464	\$ 21,924
Regular Salaries - Non-Residential	\$ 148	\$ 200	\$ 200	\$ 200	\$ 200	\$ 216	\$ 548	\$ 565	\$ 624	\$ 688	\$ 688	\$ 732	\$ 791	\$ 834	\$ 847	\$ 862	\$ 886	\$ 919	\$ 950	\$ 980	\$ 1,010
Benefits - F.I.	\$ 186	\$ 200	\$ 200	\$ 200	\$ 200	\$ 216	\$ 548	\$ 565	\$ 624	\$ 688	\$ 688	\$ 732	\$ 791	\$ 834	\$ 847	\$ 862	\$ 886	\$ 919	\$ 950	\$ 980	\$ 1,010
Benefits - O.M.E.R.S.	\$ 835	\$ 750	\$ 900	\$ 765	\$ 950	\$ 812	\$ 828	\$ 862	\$ 879	\$ 896	\$ 1,014	\$ 934	\$ 933	\$ 951	\$ 950	\$ 990	\$ 1,009	\$ 1,030	\$ 1,050	\$ 1,071	\$ 1,093
Benefits - Health & Dental	\$ 782	\$ 900	\$ 818	\$ 755	\$ 974	\$ 804	\$ 824	\$ 862	\$ 879	\$ 904	\$ 1,014	\$ 934	\$ 933	\$ 951	\$ 950	\$ 990	\$ 1,009	\$ 1,030	\$ 1,050	\$ 1,071	\$ 1,093
Benefits - E.H.T.	\$ 294	\$ 300	\$ 306	\$ 312	\$ 318	\$ 325	\$ 331	\$ 336	\$ 341	\$ 346	\$ 351	\$ 356	\$ 361	\$ 366	\$ 371	\$ 376	\$ 381	\$ 386	\$ 391	\$ 396	\$ 401
Benefits - W.S.I.B.	\$ 245	\$ 250	\$ 256	\$ 262	\$ 268	\$ 274	\$ 280	\$ 286	\$ 292	\$ 298	\$ 304	\$ 310	\$ 316	\$ 322	\$ 328	\$ 334	\$ 340	\$ 346	\$ 352	\$ 358	\$ 364
Benefits - E.A.P.	\$ 210	\$ 10	\$ 10	\$ 11	\$ 11	\$ 11	\$ 11	\$ 11	\$ 11	\$ 12	\$ 12	\$ 13	\$ 13	\$ 13	\$ 13	\$ 13	\$ 13	\$ 14	\$ 14	\$ 14	\$ 15
Telephone & Supplies	\$ 310	\$ 300	\$ 300	\$ 300	\$ 300	\$ 310	\$ 310	\$ 310	\$ 310	\$ 310	\$ 310	\$ 310	\$ 310	\$ 310	\$ 310	\$ 310	\$ 310	\$ 310	\$ 310	\$ 310	\$ 310
Travel	\$ 882	\$ 900	\$ 900	\$ 900	\$ 900	\$ 900	\$ 900	\$ 900	\$ 900	\$ 900	\$ 900	\$ 900	\$ 900	\$ 900	\$ 900	\$ 900	\$ 900	\$ 900	\$ 900	\$ 900	\$ 900
Water Meters	\$ 1471	\$ 1,500	\$ 1,530	\$ 1,552	\$ 1,574	\$ 1,600	\$ 1,628	\$ 1,658	\$ 1,689	\$ 1,723	\$ 1,757	\$ 1,793	\$ 1,828	\$ 1,865	\$ 1,902	\$ 1,939	\$ 1,978	\$ 2,019	\$ 2,059	\$ 2,100	\$ 2,142
H & S Training/Other	\$ 29,412	\$ 30,000	\$ 30,600	\$ 31,212	\$ 31,836	\$ 32,473	\$ 33,122	\$ 33,785	\$ 34,461	\$ 35,150	\$ 35,853	\$ 36,570	\$ 37,301	\$ 38,047	\$ 38,808	\$ 39,584	\$ 40,375	\$ 41,184	\$ 42,007	\$ 42,847	\$ 43,704
Newspapers	\$ 480	\$ 500	\$ 500	\$ 500	\$ 500	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511
Advertising	\$ 480	\$ 500	\$ 500	\$ 500	\$ 500	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511
Insurance	\$ 25,368	\$ 26,100	\$ 26,100	\$ 27,154	\$ 27,899	\$ 28,258	\$ 29,281	\$ 29,863	\$ 30,453	\$ 31,053	\$ 31,662	\$ 32,280	\$ 32,907	\$ 33,543	\$ 34,189	\$ 34,845	\$ 35,502	\$ 36,160	\$ 36,819	\$ 37,480	\$ 38,142
Telephone (Alarms)	\$ 107,785	\$ 112,000	\$ 122,400	\$ 124,885	\$ 127,392	\$ 130,929	\$ 134,496	\$ 138,093	\$ 141,721	\$ 145,370	\$ 149,039	\$ 152,728	\$ 156,438	\$ 160,169	\$ 163,921	\$ 167,694	\$ 171,487	\$ 175,301	\$ 179,135	\$ 183,000	\$ 186,894
Payment In Lieu	\$ 6,471	\$ 6,000	\$ 6,732	\$ 7,004	\$ 7,444	\$ 7,889	\$ 8,338	\$ 8,791	\$ 9,249	\$ 9,704	\$ 10,166	\$ 10,635	\$ 11,107	\$ 11,583	\$ 12,063	\$ 12,547	\$ 13,035	\$ 13,527	\$ 14,022	\$ 14,520	\$ 15,021
Sundials Road Well Site	\$ 980	\$ 1,000	\$ 1,020	\$ 1,040	\$ 1,061	\$ 1,082	\$ 1,104	\$ 1,126	\$ 1,149	\$ 1,172	\$ 1,195	\$ 1,219	\$ 1,243	\$ 1,268	\$ 1,294	\$ 1,319	\$ 1,346	\$ 1,373	\$ 1,400	\$ 1,428	\$ 1,457
Consulting Fees	\$ 9,804	\$ 10,000	\$ 10,200	\$ 10,400	\$ 10,612	\$ 10,824	\$ 11,041	\$ 11,262	\$ 11,487	\$ 11,717	\$ 11,951	\$ 12,190	\$ 12,434	\$ 12,682	\$ 12,935	\$ 13,193	\$ 13,456	\$ 13,724	\$ 14,000	\$ 14,282	\$ 14,568
Legal Fees (OCVA)	\$ 19,608	\$ 20,000	\$ 20,400	\$ 20,800	\$ 21,224	\$ 21,669	\$ 22,132	\$ 22,614	\$ 23,116	\$ 23,637	\$ 24,178	\$ 24,738	\$ 25,317	\$ 25,915	\$ 26,532	\$ 27,168	\$ 27,823	\$ 28,497	\$ 29,189	\$ 29,899	\$ 30,627
OCVA Contract Service Fee	\$ 3,922	\$ 4,000	\$ 4,084	\$ 4,172	\$ 4,265	\$ 4,363	\$ 4,465	\$ 4,571	\$ 4,681	\$ 4,794	\$ 4,911	\$ 5,031	\$ 5,154	\$ 5,281	\$ 5,411	\$ 5,544	\$ 5,681	\$ 5,821	\$ 5,964	\$ 6,111	\$ 6,261
Maintenance - Buildings	\$ 2,941	\$ 3,000	\$ 3,060	\$ 3,121	\$ 3,184	\$ 3,247	\$ 3,312	\$ 3,378	\$ 3,446	\$ 3,515	\$ 3,585	\$ 3,657	\$ 3,730	\$ 3,805	\$ 3,881	\$ 3,958	\$ 4,038	\$ 4,118	\$ 4,201	\$ 4,285	\$ 4,370
Maintenance - Equipment	\$ 4,902	\$ 5,000	\$ 5,100	\$ 5,202	\$ 5,306	\$ 5,412	\$ 5,520	\$ 5,631	\$ 5,743	\$ 5,858	\$ 5,975	\$ 6,095	\$ 6,217	\$ 6,341	\$ 6,468	\$ 6,597	\$ 6,729	\$ 6,864	\$ 7,001	\$ 7,141	\$ 7,284
Maintenance - Water Mains	\$ 24,510	\$ 25,000	\$ 25,500	\$ 26,010	\$ 26,530	\$ 27,061	\$ 27,602	\$ 28,153	\$ 28,714	\$ 29,285	\$ 29,867	\$ 30,459	\$ 31,061	\$ 31,673	\$ 32,295	\$ 32,928	\$ 33,571	\$ 34,225	\$ 34,889	\$ 35,564	\$ 36,248
Maintenance - Sanitary Program	\$ 38,216	\$ 40,000	\$ 40,800	\$ 41,616	\$ 42,448	\$ 43,297	\$ 44,163	\$ 45,046	\$ 45,946	\$ 46,863	\$ 47,796	\$ 48,745	\$ 49,709	\$ 50,688	\$ 51,682	\$ 52,692	\$ 53,717	\$ 54,757	\$ 55,811	\$ 56,880	\$ 57,963
Memberships	\$ 980	\$ 1,000	\$ 1,020	\$ 1,040	\$ 1,061	\$ 1,082	\$ 1,104	\$ 1,126	\$ 1,149	\$ 1,172	\$ 1,195	\$ 1,219	\$ 1,243	\$ 1,268	\$ 1,294	\$ 1,319	\$ 1,346	\$ 1,373	\$ 1,400	\$ 1,428	\$ 1,457
Travel	\$ 980	\$ 1,000	\$ 1,020	\$ 1,040	\$ 1,061	\$ 1,082	\$ 1,104	\$ 1,126	\$ 1,149	\$ 1,172	\$ 1,195	\$ 1,219	\$ 1,243	\$ 1,268	\$ 1,294	\$ 1,319	\$ 1,346	\$ 1,373	\$ 1,400	\$ 1,428	\$ 1,457
Fuel (Gas Sales)	\$ 480	\$ 500	\$ 500	\$ 500	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511	\$ 511
Other	\$ 1,176	\$ 1,200	\$ 1,224	\$ 1,248	\$ 1,273	\$ 1,299	\$ 1,325	\$ 1,351	\$ 1,378	\$ 1,406	\$ 1,434	\$ 1,463	\$ 1,492	\$ 1,522	\$ 1,552	\$ 1,582	\$ 1,613	\$ 1,645	\$ 1,678	\$ 1,711	\$ 1,745
Vehicles	\$ 8,824	\$ 9,000	\$ 9,180	\$ 9,364	\$ 9,551	\$ 9,742	\$ 9,937	\$ 10,135	\$ 10,337	\$ 10,543	\$ 10,754	\$ 10,969	\$ 11,188	\$ 11,411	\$ 11,638	\$ 11,869	\$ 12,104	\$ 12,343	\$ 12,586	\$ 12,833	\$ 13,084
Memberships - Digits	\$ 10,500	\$ 10,800	\$ 11,100	\$ 11,400	\$ 11,700	\$ 12,000	\$ 12,300	\$ 12,600	\$ 12,900	\$ 13,200	\$ 13,500	\$ 13,800	\$ 14,100	\$ 14,400	\$ 14,700	\$ 15,000	\$ 15,300	\$ 15,600	\$ 15,900	\$ 16,200	\$ 16,500
Subtotal - Operating Expense	\$ 1,005,025	\$ 1,025,125	\$ 1,045,626	\$ 1,065,540	\$ 1,087,871	\$ 1,109,628	\$ 1,131,921	\$ 1,154,497	\$ 1,177,946	\$ 1,201,097	\$ 1,225,119	\$ 1,249,822	\$ 1,274,434	\$ 1,298,766	\$ 1,322,766	\$ 1,347,382	\$ 1,372,653	\$ 1,397,623	\$ 1,423,332	\$ 1,449,831	\$ 1,477,064
Capital Expenditure																					
Contributions to Non-Growth Capital	\$ -	\$ 113,420	\$ 94,862	\$ 83,153	\$ 63,453	\$ 304,629	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761
Subtotal - Capital Expenditure	\$ -	\$ 113,420	\$ 94,862	\$ 83,153	\$ 63,453	\$ 304,629	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761	\$ 38,761
Reserve Fund Contributions																					
Escalating Infrastructure	\$ -	\$ 815,529	\$ 856,424	\$ 899,010	\$ 941,617	\$ 985,958	\$ 1,031,999	\$ 1,079,901	\$ 1,129,907	\$ 1,185,544	\$ 1,243,539	\$ 1,304,083	\$ 1,367,077	\$ 1,432,378	\$ 1,500,038	\$ 1,570,391	\$ 1,643,522	\$ 1,719,637	\$ 1,798,840	\$ 1,880,377	\$ 1,965,063
Subtotal - Reserve Fund Contributions	\$ -	\$ 815,529	\$ 856,424	\$ 899,010	\$ 941,617	\$ 985,958	\$ 1,031,999	\$ 1,079,901	\$ 1,129,907	\$ 1,185,544	\$ 1,243,539	\$ 1,304,083	\$ 1,367,077	\$ 1,432,378	\$ 1,500,038	\$ 1,570,391	\$ 1,643,522	\$ 1,719,637	\$ 1,798,840	\$ 1,880,377	\$ 1,965,063
TOTAL EXPENDITURE	\$ 1,005,025	\$ 1,954,075	\$ 1,996,913	\$ 2,060,412	\$ 2,092,870	\$ 2,400,215	\$ 2,202,381	\$ 2,275,119	\$ 2,346,115	\$ 2,425,403	\$ 2,507,419	\$ 2,553,704	\$ 2,641,681	\$ 2,732,685	\$ 2,826,147	\$ 2,923,021	\$ 3,023,205	\$ 3,126,914	\$ 3,234,262	\$ 3,344,508	\$ 3,458,477
Operating Revenues																					
Water Meter Sales	\$ 11,765	\$ 12,000	\$ 12,240	\$ 12,764	\$ 13,248	\$ 13,989	\$ 13,240	\$ 13,514	\$ 13,974	\$ 14,080	\$ 14,341	\$ 14,628	\$ 14,929	\$ 15,210	\$ 15,520	\$ 15,894	\$ 16,150	\$ 16,731	\$ 16,903	\$ 17,139	\$ 17,482
Miscellaneous Receipts	\$ 39,216	\$ 40,000	\$ 40,800	\$ 41,616	\$ 42,448	\$ 43,297	\$ 44,163	\$ 45,046	\$ 45,946	\$ 46,863	\$ 47,804	\$ 48,769	\$ 49,757	\$ 50,769	\$ 51,806	\$ 52,872	\$ 53,963	\$ 55,078	\$ 56,218	\$ 57,384	\$ 58,575
Commodities Fees	\$ 14,706	\$ 15,000	\$ 15,300	\$ 15,600	\$ 15,918	\$ 16,246	\$ 16,581	\$ 16,923	\$ 17,271	\$ 17,625	\$ 18,004	\$ 18,407	\$ 18,836	\$ 19,293	\$ 19,778	\$ 20,289	\$ 20,826	\$ 21,392	\$ 21,985	\$ 22,604	\$ 23,256
Subtotal - Operating Revenues	\$ 66,687	\$ 67,000	\$ 68,340	\$ 70,000	\$ 71,612	\$ 73,552	\$ 75,104	\$ 76,783	\$ 78,593	\$ 80,444	\$ 82,345	\$ 84,297	\$ 86,299	\$ 88,351	\$ 90,453	\$ 92,605	\$ 94,807	\$ 97,059	\$ 99,361	\$ 101,713	\$ 104,124
Other Revenues																					
Monthly Fixed Charges - Residential	\$ -	\$ 985,569	\$ 407,680	\$ 469,964	\$ 500,961	\$ 546,529	\$ 593,528	\$ 650,989	\$ 691,985	\$											

TOWNSHIP OF SPRINGWATER
BACKGROUND REPORT - PURSUANT TO BILL 175
APPENDIX E - PAGE 2

WASTEWATER SYSTEM EXPENDITURE & REVENUE (EXCL. CONSUMPTION BASED REVENUE)

	Existing	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
Operating Expense																						
Regular Services Treatment	\$ 7,843	\$ 9,000	\$ 8,650	\$ 8,600	\$ 9,009	\$ 9,059	\$ 9,169	\$ 9,373	\$ 9,561	\$ 9,752	\$ 9,947	\$ 10,146	\$ 10,349	\$ 10,546	\$ 10,757	\$ 10,965	\$ 11,172	\$ 11,382	\$ 11,595	\$ 11,811	\$ 12,028	
Regular Services-DF	\$ 147	\$ 150	\$ 153	\$ 156	\$ 159	\$ 162	\$ 165	\$ 168	\$ 171	\$ 174	\$ 177	\$ 180	\$ 183	\$ 186	\$ 189	\$ 192	\$ 195	\$ 198	\$ 201	\$ 204	\$ 207	
Benefits - E.I.	\$ 480	\$ 500	\$ 510	\$ 520	\$ 531	\$ 541	\$ 552	\$ 563	\$ 574	\$ 586	\$ 598	\$ 610	\$ 622	\$ 634	\$ 647	\$ 660	\$ 673	\$ 686	\$ 700	\$ 714	\$ 728	
Benefits - O.M.E.R.S.	\$ 696	\$ 700	\$ 714	\$ 728	\$ 743	\$ 758	\$ 773	\$ 788	\$ 804	\$ 820	\$ 837	\$ 853	\$ 870	\$ 888	\$ 906	\$ 924	\$ 942	\$ 960	\$ 978	\$ 1,000	\$ 1,020	
Benefits - Health & Dental	\$ 400	\$ 400	\$ 400	\$ 400	\$ 400	\$ 400	\$ 400	\$ 400	\$ 400	\$ 400	\$ 400	\$ 400	\$ 400	\$ 400	\$ 400	\$ 400	\$ 400	\$ 400	\$ 400	\$ 400	\$ 400	
Benefits - E.H.T.	\$ 20	\$ 20	\$ 20	\$ 21	\$ 21	\$ 22	\$ 23	\$ 23	\$ 24	\$ 24	\$ 25	\$ 25	\$ 26	\$ 26	\$ 27	\$ 27	\$ 28	\$ 29	\$ 29	\$ 30	\$ 31	
Benefits - W.S.L.B.	\$ 10	\$ 10	\$ 10	\$ 11	\$ 11	\$ 11	\$ 12	\$ 12	\$ 12	\$ 13	\$ 13	\$ 13	\$ 14	\$ 14	\$ 14	\$ 15	\$ 15	\$ 16	\$ 16	\$ 17	\$ 17	
Benefits - E.A.P.	\$ 17	\$ 17	\$ 17	\$ 18	\$ 18	\$ 19	\$ 19	\$ 20	\$ 20	\$ 21	\$ 21	\$ 22	\$ 22	\$ 23	\$ 23	\$ 24	\$ 24	\$ 25	\$ 25	\$ 26	\$ 27	
Leak Detection	\$ 1,711	\$ 1,570	\$ 1,650	\$ 1,711	\$ 1,822	\$ 1,933	\$ 2,044	\$ 2,155	\$ 2,266	\$ 2,377	\$ 2,488	\$ 2,599	\$ 2,710	\$ 2,821	\$ 2,932	\$ 3,043	\$ 3,154	\$ 3,265	\$ 3,376	\$ 3,487	\$ 3,598	
Leak Detection-Contract	\$ 39,216	\$ 40,000	\$ 40,800	\$ 41,616	\$ 42,448	\$ 43,297	\$ 44,163	\$ 45,047	\$ 45,948	\$ 46,866	\$ 47,804	\$ 48,761	\$ 49,736	\$ 50,729	\$ 51,741	\$ 52,771	\$ 53,820	\$ 54,887	\$ 55,971	\$ 57,073	\$ 58,193	
Personnel Supplies	\$ 294	\$ 300	\$ 306	\$ 312	\$ 318	\$ 325	\$ 331	\$ 338	\$ 345	\$ 351	\$ 359	\$ 366	\$ 373	\$ 380	\$ 388	\$ 396	\$ 404	\$ 412	\$ 420	\$ 428	\$ 437	
Subscriptions & Publications	\$ 98	\$ 100	\$ 102	\$ 104	\$ 106	\$ 108	\$ 110	\$ 113	\$ 115	\$ 117	\$ 120	\$ 122	\$ 124	\$ 127	\$ 129	\$ 132	\$ 135	\$ 137	\$ 140	\$ 143	\$ 146	
Advertising	\$ 880	\$ 1,000	\$ 1,020	\$ 1,040	\$ 1,061	\$ 1,082	\$ 1,104	\$ 1,126	\$ 1,149	\$ 1,172	\$ 1,195	\$ 1,219	\$ 1,243	\$ 1,268	\$ 1,294	\$ 1,320	\$ 1,346	\$ 1,373	\$ 1,400	\$ 1,428	\$ 1,457	
Insurance	\$ 8,039	\$ 8,200	\$ 8,364	\$ 8,531	\$ 8,702	\$ 8,876	\$ 9,053	\$ 9,234	\$ 9,419	\$ 9,608	\$ 9,800	\$ 9,994	\$ 10,190	\$ 10,390	\$ 10,594	\$ 10,801	\$ 11,011	\$ 11,224	\$ 11,440	\$ 11,659	\$ 11,881	
Hydro	\$ 9,137	\$ 12,824	\$ 11,624	\$ 12,918	\$ 12,713	\$ 12,466	\$ 12,186	\$ 11,873	\$ 11,528	\$ 11,154	\$ 10,752	\$ 10,325	\$ 9,875	\$ 9,404	\$ 8,914	\$ 8,407	\$ 7,885	\$ 7,350	\$ 6,805	\$ 6,251	\$ 5,690	
Telephone	\$ 4,314	\$ 4,400	\$ 4,488	\$ 4,578	\$ 4,669	\$ 4,763	\$ 4,859	\$ 4,957	\$ 5,054	\$ 5,155	\$ 5,258	\$ 5,364	\$ 5,471	\$ 5,580	\$ 5,692	\$ 5,806	\$ 5,922	\$ 6,040	\$ 6,161	\$ 6,284	\$ 6,410	
Legal Fees	\$ 2,451	\$ 2,500	\$ 2,550	\$ 2,601	\$ 2,653	\$ 2,706	\$ 2,760	\$ 2,815	\$ 2,872	\$ 2,929	\$ 2,988	\$ 3,047	\$ 3,107	\$ 3,171	\$ 3,234	\$ 3,298	\$ 3,365	\$ 3,432	\$ 3,501	\$ 3,571	\$ 3,642	
Contracts (OCWA)	\$ 172,549	\$ 176,000	\$ 179,500	\$ 183,111	\$ 186,773	\$ 190,508	\$ 194,318	\$ 198,205	\$ 202,169	\$ 206,212	\$ 210,336	\$ 214,543	\$ 218,834	\$ 223,211	\$ 227,675	\$ 232,228	\$ 236,873	\$ 241,610	\$ 246,442	\$ 251,371	\$ 256,399	
OCWA Contract Labour	\$ 3,922	\$ 4,000	\$ 4,080	\$ 4,162	\$ 4,245	\$ 4,330	\$ 4,416	\$ 4,505	\$ 4,595	\$ 4,687	\$ 4,780	\$ 4,876	\$ 4,974	\$ 5,073	\$ 5,174	\$ 5,278	\$ 5,383	\$ 5,491	\$ 5,601	\$ 5,713	\$ 5,827	
Sewer Service Connection Fee	\$ 4,902	\$ 5,000	\$ 5,100	\$ 5,202	\$ 5,308	\$ 5,412	\$ 5,520	\$ 5,631	\$ 5,743	\$ 5,858	\$ 5,975	\$ 6,093	\$ 6,214	\$ 6,337	\$ 6,464	\$ 6,594	\$ 6,728	\$ 6,864	\$ 7,001	\$ 7,141	\$ 7,284	
OCWA Contract Costs	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	
Energy Contract	\$ 480	\$ 500	\$ 510	\$ 520	\$ 531	\$ 541	\$ 552	\$ 563	\$ 574	\$ 586	\$ 598	\$ 610	\$ 622	\$ 634	\$ 647	\$ 660	\$ 673	\$ 686	\$ 700	\$ 714	\$ 728	
Maintenance-Buildings	\$ 980	\$ 1,000	\$ 1,020	\$ 1,040	\$ 1,061	\$ 1,082	\$ 1,104	\$ 1,126	\$ 1,149	\$ 1,172	\$ 1,195	\$ 1,219	\$ 1,243	\$ 1,268	\$ 1,294	\$ 1,320	\$ 1,346	\$ 1,373	\$ 1,400	\$ 1,428	\$ 1,457	
Maintenance-Equipment	\$ 49,020	\$ 50,000	\$ 51,000	\$ 52,020	\$ 53,060	\$ 54,122	\$ 55,204	\$ 56,308	\$ 57,434	\$ 58,583	\$ 59,755	\$ 60,950	\$ 62,169	\$ 63,412	\$ 64,680	\$ 65,974	\$ 67,293	\$ 68,639	\$ 70,012	\$ 71,412	\$ 72,841	
Maintenance-General	\$ 2,451	\$ 2,500	\$ 2,550	\$ 2,601	\$ 2,653	\$ 2,706	\$ 2,760	\$ 2,815	\$ 2,872	\$ 2,929	\$ 2,988	\$ 3,047	\$ 3,107	\$ 3,171	\$ 3,234	\$ 3,298	\$ 3,365	\$ 3,432	\$ 3,501	\$ 3,571	\$ 3,642	
Other	\$ 724	\$ 738	\$ 753	\$ 768	\$ 783	\$ 799	\$ 815	\$ 831	\$ 848	\$ 865	\$ 882	\$ 900	\$ 918	\$ 936	\$ 955	\$ 974	\$ 993	\$ 1,013	\$ 1,033	\$ 1,054	\$ 1,075	
Transfers Between Depts	\$ 24,510	\$ 25,000	\$ 25,500	\$ 26,010	\$ 26,530	\$ 27,061	\$ 27,602	\$ 28,154	\$ 28,717	\$ 29,291	\$ 29,877	\$ 30,475	\$ 31,084	\$ 31,703	\$ 32,340	\$ 32,987	\$ 33,645	\$ 34,313	\$ 35,000	\$ 35,706	\$ 36,432	
Subtotal - Operating Expense	\$ 430,621	\$ 457,073	\$ 467,504	\$ 478,217	\$ 489,067	\$ 500,248	\$ 511,664	\$ 523,343	\$ 535,325	\$ 547,742	\$ 560,746	\$ 574,489	\$ 588,972	\$ 604,296	\$ 620,566	\$ 637,820	\$ 656,074	\$ 675,427	\$ 695,889	\$ 717,460	\$ 740,148	
Capital Expenditure																						
Contributions to Non-Growth Capital	\$ -	\$ 22,271	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Subtotal - Capital Expenditure	\$ -	\$ 22,271	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Reserve Fund Contributions																						
Replacement Reserve Fund - Existing Infrastructure	\$ -	\$ 314,917	\$ 324,840	\$ 335,152	\$ 345,545	\$ 356,336	\$ 367,432	\$ 378,850	\$ 390,693	\$ 403,325	\$ 416,319	\$ 429,814	\$ 443,807	\$ 458,201	\$ 473,089	\$ 488,253	\$ 504,651	\$ 522,345	\$ 541,397	\$ 561,863	\$ 583,801	
Subtotal - Reserve Fund Contributions	\$ -	\$ 314,917	\$ 324,840	\$ 335,152	\$ 345,545	\$ 356,336	\$ 367,432	\$ 378,850	\$ 390,693	\$ 403,325	\$ 416,319	\$ 429,814	\$ 443,807	\$ 458,201	\$ 473,089	\$ 488,253	\$ 504,651	\$ 522,345	\$ 541,397	\$ 561,863	\$ 583,801	
TOTAL EXPENDITURE	\$ 430,621	\$ 794,261	\$ 792,343	\$ 813,363	\$ 834,632	\$ 856,584	\$ 879,096	\$ 902,193	\$ 926,018	\$ 951,067	\$ 976,765	\$ 1,003,303	\$ 1,030,679	\$ 1,058,768	\$ 1,087,588	\$ 1,117,173	\$ 1,147,688	\$ 1,179,178	\$ 1,211,492	\$ 1,244,667	\$ 1,278,689	
REVENUE																						
Operating Revenues																						
Miscellaneous Fines	\$ 480	\$ 500	\$ 510	\$ 520	\$ 531	\$ 541	\$ 552	\$ 563	\$ 574	\$ 586	\$ 598	\$ 610	\$ 622	\$ 634	\$ 647	\$ 660	\$ 673	\$ 686	\$ 700	\$ 714	\$ 728	
5% Charge, Etc.	\$ 735	\$ 750	\$ 765	\$ 780	\$ 795	\$ 810	\$ 825	\$ 840	\$ 855	\$ 870	\$ 885	\$ 900	\$ 915	\$ 930	\$ 945	\$ 960	\$ 975	\$ 990	\$ 1,005	\$ 1,020	\$ 1,035	
5% Charge, Etc.	\$ 3,922	\$ 4,000	\$ 4,080	\$ 4,162	\$ 4,245	\$ 4,330	\$ 4,416	\$ 4,505	\$ 4,595	\$ 4,687	\$ 4,780	\$ 4,876	\$ 4,974	\$ 5,073	\$ 5,174	\$ 5,278	\$ 5,383	\$ 5,491	\$ 5,601	\$ 5,713	\$ 5,827	
Subtotal - Operating Revenues	\$ 5,147	\$ 5,250	\$ 5,355	\$ 5,462	\$ 5,571	\$ 5,683	\$ 5,796	\$ 5,912	\$ 6,031	\$ 6,151	\$ 6,274	\$ 6,400	\$ 6,528	\$ 6,658	\$ 6,791	\$ 6,927	\$ 7,066	\$ 7,207	\$ 7,351	\$ 7,498	\$ 7,648	
Other Revenues																						
Monthly Fixed Charges - Residential	\$ -	\$ 192,720	\$ 204,054	\$ 216,009	\$ 228,615	\$ 242,192	\$ 256,516	\$ 271,625	\$ 287,884	\$ 305,041	\$ 323,143	\$ 342,240	\$ 363,149	\$ 384,526	\$ 406,933	\$ 433,138	\$ 460,007	\$ 488,992	\$ 519,371	\$ 550,544	\$ 584,559	
Monthly Fixed Charges - Non-Residential	\$ -	\$ 87,300	\$ 92,012	\$ 96,989	\$ 102,192	\$ 107,685	\$ 113,530	\$ 119,735	\$ 126,301	\$ 133,231	\$ 140,534	\$ 148,210	\$ 156,268	\$ 164,716	\$ 173,563	\$ 182,810	\$ 192,467	\$ 202,534	\$ 213,111	\$ 224,208	\$ 235,835	
Subtotal - Other Revenues	\$ -	\$ 280,020	\$ 296,067	\$ 313,997	\$ 330,797	\$ 349,877	\$ 369,946	\$ 391,178	\$ 413,524	\$ 437,072	\$ 462,722	\$ 489,268	\$ 517,965	\$ 548,229	\$ 580,742	\$ 613,769	\$ 649,077	\$ 686,942	\$ 727,027	\$ 770,226	\$ 817,404	
TOTAL REVENUE	\$ 5,147	\$ 285,270	\$ 301,422	\$ 319,440	\$ 336,365	\$ 355,539	\$ 375,742	\$ 397,030	\$ 419,763	\$ 443,763	\$ 469,038	\$ 495,667	\$ 524,493	\$ 554,888	\$ 586,933	\$ 620,716	\$ 657,233	\$ 695,750	\$ 736,372	\$ 779,224	\$ 825,452	
REQUIRED RATE REVENUE	\$ 425,474	\$ 506,981	\$ 490,922	\$ 484,923	\$ 489,323	\$ 488,264	\$ 501,045	\$ 503,354	\$ 505,162	\$ 506,235	\$ 507,304	\$ 507,730	\$ 507,636	\$ 506,186	\$ 503,880	\$ 500,654	\$ 496,456	\$ 490,455	\$ 483,423	\$ 475,120	\$ 464,842	

APPENDIX F

Water Rate Calculation

**TOWNSHIP OF SPRINGWATER
BACKGROUND REPORT - PURSUANT TO BILL 175**

APPENDIX F

WATER RATE CALCULATION

WATER RATES (per m³)	Existing	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Residential											
Fixed Charge / month	\$ -	\$ 12.00	\$ 12.52	\$ 13.05	\$ 13.61	\$ 14.20	\$ 14.81	\$ 15.44	\$ 16.11	\$ 16.80	\$ 17.52
0 - 15 cubic metres / month	\$ 1.100	\$ 1.100	\$ 1.147	\$ 1.197	\$ 1.248	\$ 1.302	\$ 1.357	\$ 1.416	\$ 1.477	\$ 1.540	\$ 1.606
16 - 30 cubic metres / month	\$ 1.100	\$ 1.155	\$ 1.205	\$ 1.256	\$ 1.310	\$ 1.367	\$ 1.425	\$ 1.487	\$ 1.550	\$ 1.617	\$ 1.686
31 - 45 cubic metres / month	\$ 1.237	\$ 1.444	\$ 1.506	\$ 1.570	\$ 1.638	\$ 1.708	\$ 1.782	\$ 1.858	\$ 1.938	\$ 2.021	\$ 2.108
45+ cubic metres / month	\$ 1.650	\$ 2.021	\$ 2.108	\$ 2.199	\$ 2.293	\$ 2.392	\$ 2.494	\$ 2.601	\$ 2.713	\$ 2.830	\$ 2.951
Commercial											
Fixed Charge / month	\$ -	\$ 20.00	\$ 20.86	\$ 21.76	\$ 22.69	\$ 23.66	\$ 24.68	\$ 25.74	\$ 26.85	\$ 28.00	\$ 29.20
0 - 15 cubic metres / month	\$ 1.100	\$ 1.100	\$ 1.147	\$ 1.197	\$ 1.248	\$ 1.302	\$ 1.357	\$ 1.416	\$ 1.477	\$ 1.540	\$ 1.606
16 - 30 cubic metres / month	\$ 1.100	\$ 1.100	\$ 1.147	\$ 1.197	\$ 1.248	\$ 1.302	\$ 1.357	\$ 1.416	\$ 1.477	\$ 1.540	\$ 1.606
31 - 45 cubic metres / month	\$ 0.825	\$ 1.100	\$ 1.147	\$ 1.197	\$ 1.248	\$ 1.302	\$ 1.357	\$ 1.416	\$ 1.477	\$ 1.540	\$ 1.606
45+ cubic metres / month	\$ 1.100	\$ 1.100	\$ 1.147	\$ 1.197	\$ 1.248	\$ 1.302	\$ 1.357	\$ 1.416	\$ 1.477	\$ 1.540	\$ 1.606
Annual Water Rate Increase (%)		0.00%	4.30%	4.30%	4.30%	4.30%	4.30%	4.30%	4.30%	4.30%	4.30%
RATE SUPPORTED REVENUE											
		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Residential											
0 - 15 cubic metres / month	\$	491,050	\$ 528,416	\$ 568,348	\$ 609,790	\$ 653,978	\$ 701,081	\$ 751,333	\$ 804,993	\$ 865,287	\$ 929,660
16 - 30 cubic metres / month	\$	282,189	\$ 303,662	\$ 326,609	\$ 350,425	\$ 375,818	\$ 402,886	\$ 431,764	\$ 462,601	\$ 497,250	\$ 534,243
31 - 45 cubic metres / month	\$	117,603	\$ 126,551	\$ 136,115	\$ 146,040	\$ 156,623	\$ 167,903	\$ 179,938	\$ 192,790	\$ 207,229	\$ 222,646
45+ cubic metres / month	\$	90,202	\$ 97,066	\$ 104,401	\$ 112,014	\$ 120,131	\$ 128,783	\$ 138,014	\$ 147,871	\$ 158,947	\$ 170,772
Commercial											
0 - 15 cubic metres / month	\$	42,508	\$ 44,777	\$ 47,168	\$ 49,686	\$ 52,339	\$ 55,133	\$ 58,076	\$ 61,177	\$ 64,443	\$ 67,883
16 - 30 cubic metres / month	\$	13,582	\$ 14,307	\$ 15,071	\$ 15,875	\$ 16,723	\$ 17,616	\$ 18,556	\$ 19,547	\$ 20,591	\$ 21,690
31 - 45 cubic metres / month	\$	8,300	\$ 8,743	\$ 9,210	\$ 9,702	\$ 10,220	\$ 10,765	\$ 11,340	\$ 11,946	\$ 12,583	\$ 13,255
45+ cubic metres / month	\$	46,910	\$ 49,414	\$ 52,052	\$ 54,831	\$ 57,758	\$ 60,842	\$ 64,090	\$ 67,512	\$ 71,116	\$ 74,913
Total Rate Supported Revenue		\$ 1,092,343	\$ 1,172,937	\$ 1,258,975	\$ 1,348,364	\$ 1,443,590	\$ 1,545,010	\$ 1,653,113	\$ 1,768,436	\$ 1,897,445	\$ 2,035,061
RATE STABILIZATION											
		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Opening Balance	\$	-	\$ (336,257)	\$ (612,706)	\$ (838,815)	\$ (971,945)	\$ (1,288,997)	\$ (1,257,885)	\$ (1,129,730)	\$ (889,749)	\$ (519,267)
Rate Supported Revenue	\$	1,092,343	\$ 1,172,937	\$ 1,258,975	\$ 1,348,364	\$ 1,443,590	\$ 1,545,010	\$ 1,653,113	\$ 1,768,436	\$ 1,897,445	\$ 2,035,061
Other Revenue	\$	544,508	\$ 582,208	\$ 622,809	\$ 666,192	\$ 712,535	\$ 761,852	\$ 815,802	\$ 873,606	\$ 935,522	\$ 1,001,611
Expenditures	\$	1,954,075	\$ 1,996,913	\$ 2,060,412	\$ 2,092,670	\$ 2,400,215	\$ 2,202,581	\$ 2,273,119	\$ 2,346,115	\$ 2,425,403	\$ 2,507,419
Interest											
Opening Balance	\$	-	\$ (20,175)	\$ (36,762)	\$ (50,329)	\$ (58,317)	\$ (77,340)	\$ (75,473)	\$ (67,784)	\$ (53,385)	\$ (31,156)
In-Year Transactions	\$	(19,033)	\$ (14,506)	\$ (10,718)	\$ (4,687)	\$ (14,645)	\$ 4,171	\$ 7,832	\$ 11,837	\$ 16,303	\$ 21,170
Closing Balance	\$	(336,257)	\$ (612,706)	\$ (838,815)	\$ (971,945)	\$ (1,288,997)	\$ (1,257,885)	\$ (1,129,730)	\$ (889,749)	\$ (519,267)	\$ 0

APPENDIX G

Wastewater Rate Calculation

TOWNSHIP OF SPRINGWATER
BACKGROUND REPORT - PURSUANT TO BILL 175
APPENDIX G

WASTEWATER RATE CALCULATION

Existing	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
Residential																					
Fixed Charge / month	\$ -	\$ 20.00	\$ 20.86	\$ 21.77	\$ 22.71	\$ 23.69	\$ 24.71	\$ 25.78	\$ 26.89	\$ 28.06	\$ 29.27	\$ 30.54	\$ 31.86	\$ 33.23	\$ 34.67	\$ 36.17	\$ 37.73	\$ 39.36	\$ 41.06	\$ 42.84	\$ 44.69
0- 15 cubic metres / month	\$ 1.320	\$ 1.320	\$ 1.377	\$ 1.437	\$ 1.499	\$ 1.563	\$ 1.631	\$ 1.702	\$ 1.775	\$ 1.852	\$ 1.932	\$ 2.015	\$ 2.102	\$ 2.193	\$ 2.288	\$ 2.387	\$ 2.490	\$ 2.598	\$ 2.710	\$ 2.827	\$ 2.949
16 - 30 cubic metres / month	\$ 1.125	\$ 1.125	\$ 1.176	\$ 1.233	\$ 1.294	\$ 1.359	\$ 1.428	\$ 1.500	\$ 1.575	\$ 1.654	\$ 1.737	\$ 1.823	\$ 1.912	\$ 1.999	\$ 2.092	\$ 2.189	\$ 2.290	\$ 2.395	\$ 2.504	\$ 2.617	\$ 2.734
31 - 45 cubic metres / month	\$ 1.125	\$ 1.125	\$ 1.176	\$ 1.233	\$ 1.294	\$ 1.359	\$ 1.428	\$ 1.500	\$ 1.575	\$ 1.654	\$ 1.737	\$ 1.823	\$ 1.912	\$ 1.999	\$ 2.092	\$ 2.189	\$ 2.290	\$ 2.395	\$ 2.504	\$ 2.617	\$ 2.734
46+ cubic metres / month	\$ 1.500	\$ 2.426	\$ 2.530	\$ 2.640	\$ 2.754	\$ 2.873	\$ 2.997	\$ 3.127	\$ 3.262	\$ 3.403	\$ 3.550	\$ 3.703	\$ 3.863	\$ 4.030	\$ 4.204	\$ 4.396	\$ 4.576	\$ 4.774	\$ 4.980	\$ 5.195	\$ 5.420
Commercial																					
Fixed Charge / month	\$ -	\$ 25.00	\$ 26.08	\$ 27.21	\$ 28.38	\$ 29.61	\$ 30.89	\$ 32.23	\$ 33.62	\$ 35.07	\$ 36.59	\$ 38.17	\$ 39.82	\$ 41.54	\$ 43.34	\$ 45.21	\$ 47.16	\$ 49.20	\$ 51.33	\$ 53.55	\$ 55.86
0- 15 cubic metres / month	\$ 1.320	\$ 1.320	\$ 1.377	\$ 1.437	\$ 1.499	\$ 1.563	\$ 1.631	\$ 1.702	\$ 1.775	\$ 1.852	\$ 1.932	\$ 2.015	\$ 2.102	\$ 2.193	\$ 2.288	\$ 2.387	\$ 2.490	\$ 2.598	\$ 2.710	\$ 2.827	\$ 2.949
16 - 30 cubic metres / month	\$ 1.125	\$ 1.125	\$ 1.176	\$ 1.233	\$ 1.294	\$ 1.359	\$ 1.428	\$ 1.500	\$ 1.575	\$ 1.654	\$ 1.737	\$ 1.823	\$ 1.912	\$ 1.999	\$ 2.092	\$ 2.189	\$ 2.290	\$ 2.395	\$ 2.504	\$ 2.617	\$ 2.734
31 - 45 cubic metres / month	\$ 1.125	\$ 1.125	\$ 1.176	\$ 1.233	\$ 1.294	\$ 1.359	\$ 1.428	\$ 1.500	\$ 1.575	\$ 1.654	\$ 1.737	\$ 1.823	\$ 1.912	\$ 1.999	\$ 2.092	\$ 2.189	\$ 2.290	\$ 2.395	\$ 2.504	\$ 2.617	\$ 2.734
46+ cubic metres / month	\$ 1.500	\$ 1.320	\$ 1.377	\$ 1.437	\$ 1.499	\$ 1.563	\$ 1.631	\$ 1.702	\$ 1.775	\$ 1.852	\$ 1.932	\$ 2.015	\$ 2.102	\$ 2.193	\$ 2.288	\$ 2.387	\$ 2.490	\$ 2.598	\$ 2.710	\$ 2.827	\$ 2.949
Annual Wastewater Rate Increase (%)	0.00%	4.32%	4.32%	4.32%	4.32%	4.32%	4.32%	4.32%	4.32%	4.32%	4.32%	4.32%	4.32%	4.32%	4.32%	4.32%	4.32%	4.32%	4.32%	4.32%	4.32%
RATE SUPPORTED REVENUE																					
Residential	\$ 147,613	\$ 155,827	\$ 164,555	\$ 173,597	\$ 183,172	\$ 193,262	\$ 203,888	\$ 215,156	\$ 227,396	\$ 240,293	\$ 255,992	\$ 268,524	\$ 283,838	\$ 295,975	\$ 316,987	\$ 335,025	\$ 354,164	\$ 374,331	\$ 395,594	\$ 417,981	\$ 441,683
16 - 30 cubic metres / month	\$ 58,159	\$ 61,395	\$ 64,834	\$ 68,393	\$ 72,169	\$ 76,145	\$ 80,331	\$ 84,771	\$ 89,583	\$ 94,675	\$ 100,072	\$ 105,798	\$ 111,831	\$ 118,189	\$ 124,892	\$ 131,999	\$ 139,540	\$ 147,485	\$ 155,863	\$ 164,683	\$ 173,959
31 - 45 cubic metres / month	\$ 6,167	\$ 6,510	\$ 6,874	\$ 7,252	\$ 7,652	\$ 8,074	\$ 8,518	\$ 8,988	\$ 9,500	\$ 10,038	\$ 10,611	\$ 11,218	\$ 11,858	\$ 12,532	\$ 13,242	\$ 13,996	\$ 14,795	\$ 15,638	\$ 16,526	\$ 17,462	\$ 18,446
46+ cubic metres / month	\$ 825	\$ 871	\$ 919	\$ 970	\$ 1,023	\$ 1,080	\$ 1,139	\$ 1,202	\$ 1,271	\$ 1,343	\$ 1,419	\$ 1,500	\$ 1,586	\$ 1,676	\$ 1,771	\$ 1,872	\$ 1,979	\$ 2,092	\$ 2,210	\$ 2,335	\$ 2,466
Commercial	\$ 49,230	\$ 51,871	\$ 54,654	\$ 57,597	\$ 60,677	\$ 63,923	\$ 67,363	\$ 70,977	\$ 74,765	\$ 78,769	\$ 83,036	\$ 87,481	\$ 92,115	\$ 97,000	\$ 102,231	\$ 107,822	\$ 113,697	\$ 119,793	\$ 126,126	\$ 132,723	\$ 139,599
16 - 30 cubic metres / month	\$ 11,216	\$ 11,818	\$ 12,454	\$ 13,120	\$ 13,824	\$ 14,566	\$ 15,345	\$ 16,171	\$ 17,039	\$ 17,953	\$ 18,916	\$ 19,931	\$ 21,001	\$ 22,127	\$ 23,315	\$ 24,566	\$ 25,884	\$ 27,272	\$ 28,730	\$ 30,270	\$ 31,893
31 - 45 cubic metres / month	\$ 6,554	\$ 6,906	\$ 7,276	\$ 7,667	\$ 8,078	\$ 8,511	\$ 8,968	\$ 9,449	\$ 9,956	\$ 10,490	\$ 11,053	\$ 11,646	\$ 12,271	\$ 12,930	\$ 13,623	\$ 14,354	\$ 15,125	\$ 15,936	\$ 16,789	\$ 17,682	\$ 18,614
46+ cubic metres / month	\$ 36,952	\$ 38,935	\$ 41,024	\$ 43,225	\$ 45,545	\$ 47,988	\$ 50,563	\$ 53,276	\$ 56,135	\$ 59,147	\$ 62,320	\$ 65,684	\$ 69,187	\$ 72,899	\$ 76,811	\$ 80,932	\$ 85,275	\$ 89,850	\$ 94,671	\$ 99,751	\$ 105,099
TOTAL RATE SUPPORTED REVENUE	\$ 316,716	\$ 334,133	\$ 352,590	\$ 371,800	\$ 392,141	\$ 413,658	\$ 436,117	\$ 459,990	\$ 485,675	\$ 512,736	\$ 541,409	\$ 571,762	\$ 603,747	\$ 637,448	\$ 672,973	\$ 710,566	\$ 750,368	\$ 792,308	\$ 836,517	\$ 883,075	\$ 931,105
RATE STABILIZATION																					
Opening Balance	\$ -	\$ (203,812)	\$ (382,236)	\$ (556,044)	\$ (723,458)	\$ (882,304)	\$ (1,030,426)	\$ (1,165,439)	\$ (1,284,386)	\$ (1,384,376)	\$ (1,462,232)	\$ (1,514,841)	\$ (1,537,533)	\$ (1,525,923)	\$ (1,475,212)	\$ (1,380,148)	\$ (1,234,042)	\$ (1,030,467)	\$ (782,420)	\$ (421,727)	\$ (10,000)
Rate Supported Revenue	\$ 316,716	\$ 334,133	\$ 352,590	\$ 371,800	\$ 392,141	\$ 413,658	\$ 436,117	\$ 459,990	\$ 485,675	\$ 512,736	\$ 541,409	\$ 571,762	\$ 603,747	\$ 637,448	\$ 672,973	\$ 710,566	\$ 750,368	\$ 792,308	\$ 836,517	\$ 883,075	\$ 931,105
Other Revenue	\$ 285,270	\$ 301,422	\$ 318,440	\$ 336,368	\$ 355,539	\$ 375,742	\$ 397,030	\$ 419,783	\$ 443,763	\$ 468,036	\$ 496,667	\$ 524,493	\$ 554,888	\$ 586,933	\$ 620,716	\$ 657,233	\$ 696,750	\$ 738,372	\$ 779,724	\$ 825,452	\$ 876,000
Expenditures	\$ 794,261	\$ 792,343	\$ 813,363	\$ 834,652	\$ 856,594	\$ 879,096	\$ 902,193	\$ 926,018	\$ 951,067	\$ 976,765	\$ 1,003,303	\$ 1,030,679	\$ 1,058,788	\$ 1,087,588	\$ 1,117,173	\$ 1,147,688	\$ 1,179,178	\$ 1,211,492	\$ 1,244,667	\$ 1,278,689	\$ 1,313,577
Interest																					
Opening Balance	\$ -	\$ (12,229)	\$ (22,934)	\$ (33,363)	\$ (43,407)	\$ (52,938)	\$ (61,926)	\$ (69,926)	\$ (77,063)	\$ (83,063)	\$ (87,734)	\$ (90,890)	\$ (92,282)	\$ (91,555)	\$ (88,513)	\$ (82,809)	\$ (74,042)	\$ (61,828)	\$ (45,745)	\$ (25,304)	\$ (10,000)
In-Year Transactions	\$ (11,537)	\$ (9,407)	\$ (8,540)	\$ (7,688)	\$ (6,534)	\$ (5,389)	\$ (4,143)	\$ (2,775)	\$ (1,288)	\$ 200	\$ 1,351	\$ 2,623	\$ 3,995	\$ 5,472	\$ 7,061	\$ 8,804	\$ 10,678	\$ 12,688	\$ 14,863	\$ 17,194	\$ 20,000
Closing Balance	\$ (203,812)	\$ (382,236)	\$ (556,044)	\$ (723,458)	\$ (882,304)	\$ (1,030,426)	\$ (1,165,439)	\$ (1,284,386)	\$ (1,384,376)	\$ (1,462,232)	\$ (1,514,841)	\$ (1,537,533)	\$ (1,525,923)	\$ (1,475,212)	\$ (1,380,148)	\$ (1,234,042)	\$ (1,030,467)	\$ (782,420)	\$ (421,727)	\$ (10,000)	\$ (10,000)