



October 11, 2012 Sent Via Email

Mr. David C. Wilkinson Comptroller City of Newton Commonwealth Avenue and Walnut St. Newton Centre, MA 02159

#### Dear David:

Enclosed you will find our report regarding the City of Newton's self funded Workers Compensation program as of June 30, 2012.

Indicated outstanding losses and funding for the coming year have decreased from last year's indications based primarily on lower losses for the disability claims.

It has been a pleasure being of service again to the City. Please feel free to contact me if you have any questions regarding this report.

Sincerely,

Robert W. Van Epps, FCAS, MAAA

Managing Principal

# TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	2
CONDITIONS AND LIMITATIONS	3
DISTRIBUTION AND USE	6
SUMMARY AND CONCLUSIONS	7
ANALYSIS	9
EXHIBITS	

#### **INTRODUCTION**

Financial Risk Analysts, LLC has been retained by the City of Newton (the City) to provide actuarial services regarding its self funded Workers Compensation program. The City has been fully self-funded on a pay as you go basis since at least 1956. Claims are handled by the City's Personnel Department which administers and processes benefits payments. Excess Workers Compensation coverage is not purchased and the City therefore assumes unlimited exposure to loss.

Financial Risk Analysts has been retained to provide indicated liability levels for the City's self funded Workers Compensation losses as of June 30, 2012. In addition, we have been requested to provide an indicated contribution to the self insurance fund for the one year period beginning July 1, 2012.

The estimates in this report were developed in accordance with the principals of the Casualty Actuarial Society and the applicable standards of the American Academy of Actuaries.

I, Robert Van Epps, am a Principal for Financial Risk Analysts, LLC. I am a Member of the American Academy of Actuaries and a Fellow of the Casualty Actuarial Society. I meet the qualification standards of the American Academy of Actuaries to issue this report.

#### **CONDITIONS AND LIMITATIONS**

#### **GENERAL**

Throughout this report and its exhibits the term "loss" is used to refer to both losses and allocated loss adjustment expenses (ALAE). ALAE provides for all expenses associated with the handling and settling of claims that can be directly attributable to a particular claim. Such expenses typically include claim handling fees, legal fees, investigatory expenses, medical reports, expert witness fees, rehabilitation costs, etc. No other costs associated with the City's self insured Workers Compensation program other than losses and ALAE have been considered in this report.

#### **DATA**

In this report we have used historical data and other information provided to us by the City of Newton. This data consist primarily of historical loss and exposure information for the City. In addition we have relied on various oral representations made to us by employees of the City. Although the data supplied have been reviewed for purposes of reasonability, we have not independently audited or verified this information and we assume it to be accurate and complete.

The results of our analysis will be contingent upon the reliability of the information supplied to us and such reliability is the responsibility of the City. Should the City become aware of any significant discrepancies in the data reported to us we should be notified of such discrepancies and this report will be amended, if necessary.

We were provided with the following data:

 Accident year losses paid during fiscal years 1988-2012 for General Government employees. Losses paid prior to 1988 were not provided to us. The term "accident year" refers to the year in which the accident leading to the injury took place. "Losses" refers to benefits paid for either indemnity (lost wages) or medical benefits.

- Data and information for long term disability and death cases. These are referred to as "pension cases".
- Covered payroll information by class code for Fiscal Years 1992-2012 and estimated payroll for fiscal year 2013.

We have made various assumptions to adjust for any missing or incomplete data. The City should recognize, however, that given the considerable breadth and scope of its self funded program, the relatively limited data available increases the uncertainty associated with this actuarial study. The City does not fully establish case reserves for reported Workers Compensation cases. We encourage the City to establish procedures whereby such reserves are set up for all claims. This will considerably increase the accuracy of future actuarial studies and should also improve the City's ability to manage the self insurance program.

In performing our analysis we also relied on data and information obtained from insurance industry sources to supplement the actual historical data provided to us by the City. Such data include loss development patterns, loss trend factors, loss payout patterns, and benefit level changes for Massachusetts Workers Compensation.

#### **UNCERTAINTY**

Actuarial projections, by their nature, are estimates of future contingent events that cannot be known with certainty. The ultimate liability of the City for its retained losses will be subject to events that have yet to occur such as the size of future Workers Compensation awards, future economic conditions, and the propensity for workers to file claims for Workers Compensation. No assumptions have been made in this report as to any extraordinary changes in the legal, social, or judicial environment that might affect future losses.

While we believe the results presented in this report are reasonable and reflect the use of accepted actuarial principles and standards of practice, it is possible that actual future loss results of the City will differ, perhaps materially, from those projected herein. In particular, as noted

previously, the lack of case reserve estimates increases the degree of uncertainty in our loss estimates. In addition, since excess coverage is not purchased, the City is exposed to unlimited losses, which further increases the uncertainty associated with our projections. Nothing in this report should be construed as a warranty or guarantee as to the adequacy of the liability estimates contained herein.

## ASSET QUALITY/INVESTMENT INCOME

No attempt has been made to evaluate the quality of the invested or non invested assets supporting the loss and ALAE liabilities of the City. It has been assumed that the City's loss and ALAE liabilities are supported by creditworthy assets with minimal risk of default and/or capital loss.

In this report we present the pension case losses on a discounted basis. This is a generally accepted approach for purposes of establishing liabilities for claims with fixed and determinable payment levels. Discounted reserves reflect the time value of money and represent the present value as of June 30, 2012 of the expected future loss payments. For purposes of discounting the pension case loss estimates we used an annual interest rate of 5.0%, as selected by the City. It is important to note that interest/appreciation earned on the assets supporting these liabilities should be credited to the self insurance fund. Alternatively, future years' contributions to the self insurance fund can be increased to offset the interest amortization. Based on historic and current long term yields, and on the rates typically used in pension analyses, we believe this is a reasonable interest rate to use for pension claims. It should be noted, however, that we render no opinion on the ability of the City to earn at least 5.0% on the invested assets supporting the self insurance liabilities.

#### **DISTRIBUTION AND USE**

This report is provided solely for the use of the City of Newton in evaluating its self funded Workers Compensation liabilities as of June 30, 2012. A copy of this report may also be provided to the City's auditors with the proviso that the report is copied in its entirety and that each party receiving a copy of this report agrees to not distribute the report to any other third party.

Distribution of this report to parties other than those referenced above is not authorized without the express written consent of Financial Risk Analysts, LLC.

## **SUMMARY AND CONCLUSIONS**

#### Indicated Liabilities as of June 30, 2012

Exhibit 1.1 presents the results of our analysis by type of loss. Based upon our analysis we are recommending the following liability for expected losses as of June 30, 2012:

The liability indication provided above is intended to provide for all General Government Workers Compensation losses incurred by the City from inception of its self funded program through June 30, 2012 under the terms and conditions of its statutory obligations.

General Government Workers Compensation Self Insured Liability As Of June 30, 2012			
Other Than Pension Cases	\$1,958,097		
Pension Cases	\$4,531,098		
Total Liability	\$6,489,195		

The above liability is based on an actuarial central estimate and provides for what is commonly known as "expected losses." Expected losses represent the best estimate of the City's outstanding losses as of June 30, 2012 and reflect a statistical confidence level of approximately 53%. This means there is a 53% likelihood that actual losses will be less than or equal to expected losses.

Any actuarial estimate of loss reserves is subject to inherent variability. While expected losses represent the best estimate of losses to be incurred, actual losses in any given year can be expected to differ from expected losses. Funding at expected loss levels will entail a degree of risk (47%) that reserve levels will be exceeded. If the City wishes to fund at a level with a

higher degree of statistical confidence, i.e. with a lower probability of reserves being inadequate, it may wish to fund at a higher loss level than that indicated by expected losses.

The liabilities indicated above include a provision for the following:

- Losses on claims that have occurred but that are not yet known and not yet reported
  to the City. These claims are part of the reserve provision known as IBNR or
  Incurred But Not Reported.
- Future loss development on known, recorded claims. This is also considered a part of the IBNR reserve.

## **Indicated Funding For Fiscal Year 2013**

As displayed on Exhibit 1.2 we indicate the City fund \$1,309,506 for expected losses occurring during the period July 1, 2012 to June 30, 2013. The indicated funding level is based on estimated payroll as shown on Exhibit 1.2 of approximately \$43.9 million for General Government employees. The fiscal year 2013 funding is intended to provide solely for losses occurring during the period July 1, 2012-2013. It does not include a provision to amortize any surplus or deficit in the fund balance as of June 30, 2012. The City may wish to make an adjustment to the extent a surplus or deficit exists.

As with the liability estimate, the funding indication is based on an actuarial central estimate and thus reflects an expected level of losses in the coming year. If the City wishes to fund at a level with a higher degree of statistical confidence, i.e. with a lower probability of the funding amount being inadequate to cover losses, it may wish to fund at a higher loss level than that indicated by expected losses.

As also shown on Exhibit 1.2 we are projecting an overall pure premium of \$2.98 for fiscal year 2013. A pure premium is defined as expected losses per unit of exposure. Losses are defined as previously noted. For Workers Compensation the standard exposure unit is \$100 of payroll. No other costs or expenses associated with the operation of the self funded program are included in our estimates.

### **ANALYSIS**

#### BACKGROUND INFORMATION

This analysis reviews the City of Newton's self funded Workers Compensation program as of June 30, 2012. The City has been self funded for a considerable period of time. The actual inception date is unknown. The data provided to us include claims with date of loss going back to 1956. Our analysis therefore includes loss estimates for accident years 1956 through 2012. We have assumed no liability exists for years prior to 1956.

As mentioned previously, the data provided to us does not include any payments made on claims closed prior to 1988 nor does it include payments made prior to 1988 on all other claims.

#### **ASSUMPTIONS AND METHODOLOGY**

#### **Indicated Outstanding Losses**

We have used two commonly applied actuarial methodologies to estimate the City's outstanding indemnity losses. For medical only claims, only the paid loss development method has been used. For other than medical only claims, the Bornhuetter-Ferguson paid loss method was used. From the results of these approaches final loss selections were made. The following is a detailed description of each of the methodologies used.

## • Paid Loss Development Method

The paid loss development method is a method in which paid losses are projected to an ultimate level based on historical development patterns. An analysis of the changes in accident year incurred losses between various valuation points provides a basis for estimating future changes. Paid losses are projected to an ultimate level based on historical paid loss development patterns. This method assumes that loss settlement and payment patterns have remained reasonably stable over time.

Paid loss development patterns have been derived from the City's own historical loss experience supplemented with insurance industry experience. Loss development factors are shown on Exhibits 5.1-5.3.

The actual historical loss experience of the City is shown on Exhibits 5.1-5.3. Because medical only claims are paid and closed in a relatively short period of time, we have been able to use the payment history provided to us by the City as the basis for making medical only claims projections.

For claims with indemnity experience displayed on Exhibits 5.1-5.2, we have had to adjust the losses to reflect the missing payments made prior to 1988. The losses have been adjusted using historical experience for the City and the industry. Adjusted losses are presented on Exhibits 5.1 and 5.2 and these are used for purposes of selecting loss development factors.

#### Bornhuetter-Ferguson Paid Loss Method

This approach is essentially a credibility weighted average of two other reserving methods; the paid loss development method and the expected loss method. The expected loss method simply sets the indicated reserve equal to the difference between expected losses and paid losses. It produces very stable results but fails to incorporate actual results as they emerge.

The Bornhuetter-Ferguson method blends the paid loss development method and the expected loss method by splitting expected losses into two distinct pieces; expected paid losses and expected unpaid losses. As an accident year matures, the expected paid losses are replaced with actual reported losses plus expected unreported losses. Thus, as the year matures, the initial expected incurred loss estimate becomes less important while the actual paid loss experience increases in importance. In order to use this method, one must estimate both the initial expected losses and the expected loss payment pattern.

For fiscal years 2011 and 2012 initial expected indemnity losses are derived on Exhibit 3.1. They are based on results for the more recent years projected to current benefit and trend levels. Years prior to 2011 have been left unchanged from our previous analysis. Expected

loss payment patterns are developed from the paid loss development factors on Exhibits 5.1 and 5.2.

We relied on the results of the Bornhuetter-Ferguson approach. The more recent years will be the most uncertain ones and will exhibit the greatest volatility. Use of the Bornhuetter-Ferguson approach will dampen this volatility and should produce more stable and reliable results. The results of this method appear on Exhibit 2.1.

Note that for both methods adjusted paid losses rather than actual paid losses have been used. Our results therefore produce a valid estimate of ultimate losses for a particular year even though payments made prior to 1988 are missing.

#### Pension Cases

Pension cases have been analyzed separately on Exhibit 2.3. US Life Tables 2001 Vital Statistics for Males and Females have been used to determine annuity values for these claims using a 5.0% annual rate of interest. Amortizing such claims for mortality and interest is a common practice when establishing liabilities for these types of claims.

It has been assumed for the permanent total and death claims that benefits will be payable for life. For the temporary disability claims it has been assumed that benefits will be paid for the statutory maximum five years unless an alternate cap date has been provided by the City.

Effective July 1, 1999 the City elected to opt out of the Massachusetts Workers Compensation Trust Fund. As a result the City's liability for pension claims increased significantly. Prior to July 1, 1999, the City's net liability for pension claims was limited to the base benefit for each claim. The base benefit is the benefit established at the time of injury. It is a function of the injured worker's salary at the time of injury.

Benefits for pension claims are subject to annual cost of living adjustments. As a participant in the Trust Fund the City was not responsible for paying cost of living adjustments. By opting out the City is now responsible for paying a benefit equal to the initial base benefit plus the

accumulated cost of living adjustments. In addition, the City will be responsible for paying future cost of living adjustments. We used a 3.5% annual cost of living adjustment in the pension claim calculation. Offsetting this somewhat is the fact that the City will no longer be subject to assessment by the Trust Fund.

## Fiscal Year 2013 Funding

Exhibit 1.2 displays recommended funding separately for non-pension indemnity and medical claims for the July 1, 2012-2013 period. Funding is determined by multiplying the pure premium in column (1) by the covered payroll in column (2). The City may wish to adjust the indicated funding if actual payroll amounts are different from those displayed on Exhibit 1.2. A provision for pension claims has also been included based on the City's historical experience for these types of claims.

Based on the payroll data provided to us, we are indicating funding of \$1,309,506 for General Government employees. Overall, our analysis produces indicated funding of \$2.98 per \$100 of payroll for General Government employees. This consists of \$2.60 for non-pension indemnity claims, \$0.14 for medical only claims, and \$0.24 for pension claims.

CITY OF NEWTON Exhibit 1.1

WORKERS COMPENSATION INDICATED LIABILITY AS OF JUNE 30, 2012 SUMMARY OF RESULTS

Indicated Liability As of June 30, 2012		
GENERAL GOVERNMENT		
A. Other Than Pension Claims	\$1,958,097	
B. Pension Claims	\$4,531,098	-
C. Total	\$6,489,195	•

A. Exhibits 2.1 and 2.2

B. Exhibit 2.3

WORKERS COMPENSATION INDICATED FUNDING FISCAL YEAR 2013

	Expected Loss Cost (1)	Exposure (Payroll \$00) (2)	Expected Losses (3)=(1)x(2)
Non-Pension Claims Indemnity Medical Only Total	\$2.60 <u>\$0.14</u> \$2.74	\$438,957 \$438,957	1,141,288 <u>61,454</u> 1,202,742
Pension Claims			106,764
TOTAL	\$2.98		1,309,506

<sup>(1)</sup> Exhibits 3.1 and 3.2

<sup>(2)</sup> Exhibit 6

WORKERS COMPENSATION INDEMNITY INDICATED OUTSTANDING LOSSES FISCAL YEARS 1988-2012

		Initial				
		Expected	Initial	Expected		
Fiscal		Pure	Expected	Percent of	Paid I	osses
Year	Exposure	Premium	Losses	Losses Paid	Actual	Expected
(1)	(2)	(3)	(4)=(2)x(3)	(5)	(6)	(7)=(4)x(5)
1988	\$207,265	\$4.90	\$1,015,599	100.0%	\$731,803	\$1,015,599
1989	217,129	5.16	1,120,386	100.0%	550,947	1,120,386
1990	220,084	5.39	1,186,253	100.0%	403,358	1,186,253
1991	222,813	5.00	1,114,065	100.0%	1,043,766	1,114,065
1992	226,774	4.63	1,049,964	100.0%	525,993	1,049,964
1993	233,157	4.74	1,105,164	100.0%	361,292	1,105,164
1994	253,882	4.22	1,071,382	100.0%	362,024	1,071,382
1995	256,823	4.41	1,132,589	100.0%	496,346	1,132,589
1996	270,263	4.04	1,091,863	100.0%	356,685	1,091,863
1997	282,380	2.58	728,540	100.0%	727,631	728,540
1998	287,177	2.73	783,993	100.0%	429,643	783,993
1999	309,695	2.56	792,819	100.0%	310,631	792,819
2000	314,406	1.85	581,651	100.0%	688,104	581,651
2001	322,083	1.89	608,737	100.0%	506,773	608,737
2002	354,569	1.80	638,224	99.8%	602,970	636,948
2003	362,190	1.94	702,649	99.5%	1,231,044	699,136
2004	362,318	1.85	670,288	98.9%	841,749	662,915
2005	365,553	2.00	731,106	98.0%	565,101	716,484
2006	378,519	2.01	760,823	95.5%	423,686	726,586
2007	405,875	2.02	819,868	92.3%	660,715	756,738
2008	415,644	2.13	885,322	88.5%	725,758	783,510
2009	414,492	2.13	882,868	82.0%	1,143,786	723,952
2010	420,324	2.36	991,965	73.2%	594,500	726,118
2011	416,654	2.58	1,074,967	56.1%	695,274	603,056
2012	413,666	2.60	1,075,532	24.6%	436,637	264,581
Total	¢7 022 725				ŕ	,
Total	\$7,933,735		\$22,616,617		\$15,416,216	\$20,683,029

	Expected	Expected	Indicated	Indicated
Fiscal	Percent of	Unpaid	Ultimate	Ultimate
Year	Losses Unpaid	Losses	Losses	Pure Premium
(1)	(8)=1.0-(5)	(9)=(8)x(4)	(10)=(6)+(9)	(11)=(10)/(2)
1988	0.0%	\$0	\$731,803	\$3.53
1989	0.0%	0	550,947	2.54
1990	0.0%	0	403,358	1.83
1991	0.0%	0	1,043,766	4.68
1992	0.0%	0	525,993	2.32
1993	0.0%	0	361,292	1.55
1994	0.0%	0	362,024	1.43
1995	0.0%	0	496,346	1.93
1996	0.0%	0	356,685	1.32
1997	0.0%	0	727,631	2.58
1998	0.0%	0	429,643	1.50
1999	0.0%	0	310,631	1.00
2000	0.0%	0	688,104	2.19
2001	0.0%	0	506,773	1.57
2002	0.2%	1,276	604,246	1.70
2003	0.5%	3,513	1,234,557	3.41
2004	1.1%	7,373	849,122	2.34
2005	2.0%	14,622	579,723	1.59
2006	4.5%	34,237	457,923	1.21
2007	7.7%	63,130	723,845	1.78
2008	11.5%	101,812	827,570	1.99
2009	18.0%	158,916	1,302,702	3.14
2010	26.8%	265,847	860,347	2.05
2011	43.9%	471,911	1,167,185	2.80
2012	75.4%	810,951	1,247,588	3.02
Total		\$1,933,588	\$17,349,804	\$2.19

<sup>(2)</sup> Exhibit 6
(3) Exhibit 3.2 for 2011 and 2012. Prior years from 6/30/11 analysis.
(5) Reciprocal of cumulative factors from Exhibits 5.1 and 5.2.

CITY OF NEWTON Exhibit 2.2

WORKERS COMPENSATION MEDICAL ONLY INDICATED OUTSTANDING LOSSES

			Indicated	Indicated
Fiscal	Paid	Development	Ultimate	Outstanding
Year	Losses	<u>Factor</u>	Losses	Losses
(1)	(2)	(3)	(4)=(2)x(3)	(5)=(4)-(2)
( )	(-/	(=)	( ) (=) ! (0)	(*) ( ·) (=)
1992	\$50,185	1.000	\$50,185	\$0
1993	55,048	1.000	55,048	0
1994	41,715	1.000	41,715	0
1995	30,253	1.000	30,253	0
1996	38,256	1.000	38,256	0
1997	52,656	1.000	52,656	0
1998	21,654	1.000	21,654	0
1999	26,186	1.000	26,186	0
2000	29,828	1.000	29,828	0
2001	52,518	1.000	52,518	0
2002	57,813	1.000	57,813	0
2003	48,175	1.000	48,175	0
2004	97,765	1.000	97,765	0
2005	54,109	1.000	54,109	0
2006	45,839	1.000	45,839	0
2007	63,186	1.002	63,312	126
2008	54,171	1.005	54,442	271
2009	42,316	1.012	42,824	508
2010	18,078	1.037	18,747	669
2011	36,672	1.084	39,752	3,080
2012	31,718	1.626	51,573	19,855
TOTAL	\$948,141		\$972,650	\$24,509

<sup>(2), (3)</sup> Exhibit 5.3

CITY OF NEWTON Exhibit 2.3

# WORKERS COMPENSATION PENSION CLAIMS

<b>Permanent Total Disabil</b>	ermanent Total Disability Claims					
				Net		Present
Claimant		Date Of	Nearest	Weekly	Annuity	Value Of
<u>Name</u>	<u>Sex</u>	<u>Birth</u>	<u>Age</u>	<u>Benefit</u>	<u>Factor</u>	<u>Benefit</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Baccari, Costanzo*	М	09/15/48	64	\$0.00		\$0
Brennan, Lawrence	M	12/29/51	61	\$814.16	15.836	\$670,438
Forte, Salvatore*	M	08/19/32	80	\$0.00		0
Gentile, Joseph	M	08/24/25	87	\$937.36	4.609	224,655
Hayes, Thomas	M	08/27/49	63	\$1,127.31	14.780	866,405
Kelly, Stephen	M	12/07/27	85	\$1,123.78	5.179	302,643
Marchand, Kathleen*	F	07/02/21	91	\$0.00		0
McMahon, Robert	M	09/14/44	68	\$1,102.01	12.229	700,777
Pacius, Joseph	M	03/26/50	62	\$597.94	15.304	475,845
Piselli, Lawrence	М	10/03/26	86	\$980.91	4.886	249,222
TOTAL						\$3,489,985

Widow Claims						
				Net		Present
Claimant		Date Of	Nearest	Weekly	Annuity	Value Of
<u>Name</u>	Sex	<u>Birth</u>	Age	<b>Benefit</b>	Factor	<b>Benefit</b>
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Adams, Barbara	F	12/03/38	74	\$795.01	11.165	461,567
Cardarelli, Catherine	F	08/07/48	64	\$667.67	16.504	573,000
TOTAL						\$1,034,567

<b>Temporary Disability C</b>	laims					
				Net		Present
Claimant		Date Of	Nearest	Weekly	Annuity	Value Of
<u>Name</u>	<u>Sex</u>	<u>Birth</u>	<u>Age</u>	<b>Benefit</b>	<u>Factor</u>	<b>Benefit</b>
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Delgado, Adalberto	М	06/03/59	53	\$0.00	1.000	0
Hooker, Michael	М	12/12/61	51	\$467.55	1.000	6,546
TOTAL						\$6,546

GRAND TOTAL PENSION CASES	\$4,531,098

<sup>(1) \*</sup>Deceased in 2011-2012 year

CITY OF NEWTON Exhibit 3.1

WORKERS COMPENSATION INDEMNITY PROJECTED PURE PREMIUMS

	Initial		5	Benefit	<b>-</b> .	0 1 1
	Projected		Developed	Level	Trend	On Level
Fiscal	Ultimate	_	Pure	Adjust.	Factor To	Pure
<u>Year</u>	Losses	<u>Exposure</u>	<u>Premium</u>	<u>Factor</u>	<u>1/1/13</u>	<u>Premium</u>
(1)	(2)	(3)	(4)=(2)/(3)	(5)	(6)	(7)
2002	604,176	354,569	1.70	1.064	1.000	1.81
2003	1,237,199	362,190	3.42	1.061	1.000	3.63
2004	851,008	362,318	2.35	1.062	1.000	2.50
2005	576,403	365,553	1.58	1.055	1.000	1.67
2006	443,599	378,519	1.17	1.044	1.000	1.22
2007	716,215	405,875	1.76	1.032	1.000	1.82
2008	820,106	415,644	1.97	1.021	1.000	2.01
2009	1,395,419	414,492	3.37	1.009	1.000	3.40
2010	812,087	420,324	1.93	1.006	1.000	1.94
2011	1,239,674	416,654	2.98	1.008	1.000	3.00
2012	1,774,930	413,666	4.29	1.000	1.000	4.29
8. MEAN						2.48
9. LATEST	5					2.93
10. LATEST	3					3.08
11. BEST 3						2.80
12. SELECT	ED					2.60
				(13)	(14)	(15)
			<b>-</b>		ON LEVEL	TRENDED
	ED PURE PREM	ИIUM		SELECTED	FACTOR	ON LEVEL
2011				2.60	1.008	2.58
2012				2.60	1.000	2.60
2013				2.60	1.000	2.60

<sup>(2)</sup> Exhibit 4.1

<sup>(3)</sup> Exhibit 6

<sup>(5)</sup> Based on Massachusetts benefit level changes

<sup>(6) 0.0%</sup> annual trend based on 2012 WCRIB MA filing

<sup>(7) (4)</sup> x (5) x (6)

<sup>(14) (5)</sup> x (6)

<sup>(15) (13)/(14)</sup> 

CITY OF NEWTON Exhibit 3.2

WORKERS COMPENSATION MEDICAL ONLY PROJECTED PURE PREMIUMS

Fiscal	Initial Projected Ultimate		Developed Pure	Benefit Level Adjust.	Trend Factor To	On Level Pure
<u>Year</u>	Losses	Exposure	Premium	Factor	1/1/13	Premium
(1)	(2)	(3)	(4)=(2)/(3)	(5)	(6)	(7)
	. ,	. ,	.,.,,,	` ,	. ,	` ,
2002	57,813	354,569	0.16	1.101	1.066	0.19
2003	48,175	362,190	0.13	1.068	1.060	0.15
2004	97,765	362,318	0.27	1.046	1.054	0.30
2005	54,109	365,553	0.15	1.034	1.048	0.16
2006	45,839	378,519	0.12	1.032	1.042	0.13
2007	63,312	405,875	0.16	1.032	1.036	0.17
2008	54,442	415,644	0.13	1.032	1.030	0.14
2009	42,824	414,492	0.10	1.024	1.024	0.10
2010	18,747	420,324	0.04	1.000	1.018	0.04
2011	39,752	416,654	0.10	1.000	1.012	0.10
2012	51,573	413,666	0.12	1.000	1.006	0.12
8. MEAN						0.15
9. LATEST 5						0.10
10. LATEST 3						0.09
11. BEST 3						0.11
12. SELECTED	)					0.14
				(4.5)	(4.4)	(4.7)
				(13)	(14)	(15)
FOREOVETER	- DUDE DE -	411.18.4	1	2013	ON LEVEL	TRENDED
FORECASTED	) PURE PREM	/IIUM		SELECTED	FACTOR	ON LEVEL
2013				0.14	1.000	0.14

<sup>(2)</sup> Exhibit 4.2

<sup>(3)</sup> Exhibit 6

<sup>(5)</sup> Based on Massachusetts benefit level changes

<sup>(6) +0.6%</sup> annual trend based on 2012 WCRIB MA filing

<sup>(7) (4)</sup> x (5) x (6)

<sup>(15) (13)/(14)</sup> 

WORKERS COMPENSATION INDEMNITY PROJECTED ULTIMATE LOSSES

Fiscal <u>Year</u> (1)	Paid <u>Losses</u> (2)	Paid LDF (3)	Initial Projected Ultimate Losses (4)=(2)x(3)
1998	429,643	1.000	429,643
1999	310,631	1.000	310,631
2000	688,104	1.000	688,104
2001	506,773	1.000	506,773
2002	602,970	1.002	604,176
2003	1,231,044	1.005	1,237,199
2004	841,749	1.011	851,008
2005	565,101	1.020	576,403
2006	423,686	1.047	443,599
2007	660,715	1.084	716,215
2008	725,758	1.130	820,106
2009	1,143,786	1.220	1,395,419
2010	594,500	1.366	812,087
2011	695,274	1.783	1,239,674
2012	436,637	4.065	1,774,930
TOTAL	9,856,372		12,405,967

<sup>(2),(3)</sup> Exhibits 5.1 and 5.2

WORKERS COMPENSATION MEDICAL ONLY PROJECTED ULTIMATE LOSSES

Fiscal <u>Year</u> (1)	Paid <u>Losses</u> (2)	Paid LDF (3)	Initial Projected Ultimate Losses (4)=(2)x(3)
1998	21,654	1.000	21,654
1999	26,186	1.000	26,186
2000	29,828	1.000	29,828
2001	52,518	1.000	52,518
2002	57,813	1.000	57,813
2003	48,175	1.000	48,175
2004	97,765	1.000	97,765
2005	54,109	1.000	54,109
2006	45,839	1.000	45,839
2007	63,186	1.002	63,312
2008	54,171	1.005	54,442
2009	42,316	1.012	42,824
2010	18,078	1.037	18,747
2011	36,672	1.084	39,752
2012	31,718	1.626	51,573
TOTAL	680,028		704,537

<sup>(2),(3)</sup> Exhibit 5.3

**CITY OF NEWTON** Exhibit 5.1

WORKERS COMPENSATION INDEMNITY
LOSS DEVELOPMENT FACTORS

<u>Year</u>	10	24			d As Of (Mor	nths)		ne ne	100
	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>	<u>96</u>	<u>108</u>
1981									13,0
1982								50,271	79,8
1983							85,974	151,711	190,8
1984						104,034	131,996	136,739	141,5
1985					47,779	73,645	97,884	112,151	145,8
1986				162,488	213,185	253,463	291,687	355,426	372,2
1987			133,598	187,011	244,851	257,161	257,537	293,215	294,9
1988		309,658	422,764	500,503	574,645	703,346	731,742	731,742	731,7
	125,123	,	400,338	495,906		543,317			
1989		302,209			533,152		543,317 401,285	543,317 401,609	543,
1990	61,057	136,259	240,897	345,480	396,190	399,793		,	402,
1991	251,479	533,452	803,595	949,121	983,668	1,004,961	1,024,987	1,034,376	1,043,
1992	200,283	389,798	473,625	508,353	523,441	525,908	525,991	525,991	525,
1993	236,354	328,415	357,812	361,292	361,292	361,292	361,292	361,292	361,
1994	256,041	307,371	323,286	336,139	349,228	362,024	362,024	362,024	362,
1995	252,218	364,159	408,641	433,274	453,377	482,933	487,876	489,671	489,
1996	140,989	274,415	297,650	313,820	326,365	338,770	351,657	352,487	355,
1997	196,695	406,077	486,522	531,195	593,981	655,648	684,784	695,698	695,
1998	226,291	423,091	425,054	425,054	425,054	429,643	429,643	429,643	429,
1999	128,232	265,674	316,163	316,163	316,195	316,195	316,195	316,195	316,
2000	179,744	347,949	437,667	506,255	563,350	573,221	585,234	628,446	651,
2001	256,216	437,942	494,943	498,590	505,217	506,687	506,773	506,773	506,
2002	226,861	384,059	466,692	558,877	558,877	587,350	587,350	594,358	594,
2003	240,012	455,997	511,759	784,841	909,623	941,992	1,129,698	1,222,594	1,231,
2003									841,
	338,477	480,882	563,330	643,668	694,186	755,783	782,021	825,604	041,
2005	188,127	437,560	513,875	526,334	563,531	564,858	565,101	565,101	
2006	234,892	421,979	422,760	422,760	423,686	423,686	423,686		
2007	157,547	373,629	522,594	567,703	596,949	660,715			
2008	341,234	525,822	614,986	687,309	725,758				
2009	300,008	746,464	1,002,930	1,143,786					
2010	223,339	537,281	594,500						
2011	326,545	695,274							
2012	436,637								
Fiscal				Deve	lopment Fac	tors			
Year	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-1
1981									1.57
1982								1.589	1.32
1983							1.765	1.258	1.22
1984						1.269	1.036	1.035	1.24
1985					1.541	1.329	1.146	1.300	1.03
1986				1.312	1.189	1.151	1.219	1.047	1.000
1987			1.400	1.309	1.050	1.001	1.139	1.006	1.00
1988		1.365	1.184	1.148	1.224	1.040	1.000	1.000	1.00
1989	2.415	1.325	1.239	1.075	1.019	1.000	1.000	1.000	1.00
1990	2.232	1.768	1.434	1.147	1.009	1.004	1.001	1.002	1.00
1991	2.121	1.506	1.181	1.036	1.022	1.020	1.009	1.009	1.00
1992	1.946	1.215	1.073	1.030	1.005	1.000	1.000	1.000	1.00
1993	1.390	1.090	1.010	1.000	1.000	1.000	1.000	1.000	1.00
1001	1.200	1.052	1.040	1.039	1.037	1.000	1.000	1.000	1.00
1994	1.444	1.122	1.060	1.046	1.065	1.010	1.004	1.000	1.00
1995			1.054	1.040	1.038	1.038	1.002	1.008	1.00
1995 1996	1.946	1.085					1.016	1.000	
1995		1.085 1.198	1.092	1.118	1.104	1.044	1.010		1.02
1995 1996	1.946			1.118 1.000	1.104 1.011	1.044 1.000	1.000	1.000	
1995 1996 1997 1998	1.946 2.065 1.870	1.198 1.005	1.092 1.000	1.000	1.011	1.000	1.000	1.000	1.00
1995 1996 1997 1998 1999	1.946 2.065 1.870 2.072	1.198 1.005 1.190	1.092 1.000 1.000	1.000 1.000	1.011 1.000	1.000 1.000	1.000 1.000	1.000 1.000	1.00
1995 1996 1997 1998 1999 2000	1.946 2.065 1.870 2.072 1.936	1.198 1.005 1.190 1.258	1.092 1.000 1.000 1.157	1.000 1.000 1.113	1.011 1.000 1.018	1.000 1.000 1.021	1.000 1.000 1.074	1.000 1.000 1.036	1.00 1.00 1.01
1995 1996 1997 1998 1999 2000 2001	1.946 2.065 1.870 2.072 1.936 1.709	1.198 1.005 1.190 1.258 1.130	1.092 1.000 1.000 1.157 1.007	1.000 1.000 1.113 1.013	1.011 1.000 1.018 1.003	1.000 1.000 1.021 1.000	1.000 1.000 1.074 1.000	1.000 1.000 1.036 1.000	1.00 1.00 1.01 1.00
1995 1996 1997 1998 1999 2000 2001 2002	1.946 2.065 1.870 2.072 1.936 1.709 1.693	1.198 1.005 1.190 1.258 1.130 1.215	1.092 1.000 1.000 1.157 1.007 1.198	1.000 1.000 1.113 1.013 1.000	1.011 1.000 1.018 1.003 1.051	1.000 1.000 1.021 1.000 1.000	1.000 1.000 1.074 1.000 1.012	1.000 1.000 1.036 1.000 1.001	1.00 1.00 1.01 1.00 1.01
1995 1996 1997 1998 1999 2000 2001 2002 2003	1.946 2.065 1.870 2.072 1.936 1.709 1.693 1.900	1.198 1.005 1.190 1.258 1.130 1.215 1.122	1.092 1.000 1.000 1.157 1.007 1.198 1.534	1.000 1.000 1.113 1.013 1.000 1.159	1.011 1.000 1.018 1.003 1.051 1.036	1.000 1.000 1.021 1.000 1.000 1.199	1.000 1.000 1.074 1.000 1.012 1.082	1.000 1.000 1.036 1.000 1.001 1.007	1.00 1.00 1.01 1.00 1.01
1995 1996 1997 1998 1999 2000 2001 2002 2003 2004	1.946 2.065 1.870 2.072 1.936 1.709 1.693 1.900 1.421	1.198 1.005 1.190 1.258 1.130 1.215 1.122 1.171	1.092 1.000 1.000 1.157 1.007 1.198 1.534 1.143	1.000 1.000 1.113 1.013 1.000 1.159 1.078	1.011 1.000 1.018 1.003 1.051 1.036 1.089	1.000 1.000 1.021 1.000 1.000 1.199 1.035	1.000 1.000 1.074 1.000 1.012 1.082 1.056	1.000 1.000 1.036 1.000 1.001	1.00 1.00 1.01 1.00 1.01
1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005	1.946 2.065 1.870 2.072 1.936 1.709 1.693 1.900 1.421 2.326	1.198 1.005 1.190 1.258 1.130 1.215 1.122 1.171 1.174	1.092 1.000 1.000 1.157 1.007 1.198 1.534 1.143 1.024	1.000 1.000 1.113 1.013 1.000 1.159 1.078	1.011 1.000 1.018 1.003 1.051 1.036 1.089 1.002	1.000 1.000 1.021 1.000 1.000 1.199 1.035 1.000	1.000 1.000 1.074 1.000 1.012 1.082	1.000 1.000 1.036 1.000 1.001 1.007	1.000 1.000 1.010 1.000 1.010
1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	1.946 2.065 1.870 2.072 1.936 1.709 1.693 1.900 1.421 2.326 1.796	1.198 1.005 1.190 1.258 1.130 1.215 1.122 1.171 1.174 1.002	1.092 1.000 1.000 1.157 1.007 1.198 1.534 1.143 1.024 1.000	1.000 1.000 1.113 1.013 1.000 1.159 1.078 1.071 1.002	1.011 1.000 1.018 1.003 1.051 1.036 1.089 1.002 1.000	1.000 1.000 1.021 1.000 1.000 1.199 1.035	1.000 1.000 1.074 1.000 1.012 1.082 1.056	1.000 1.000 1.036 1.000 1.001 1.007	1.000 1.000 1.010 1.000 1.010
1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007	1.946 2.065 1.870 2.072 1.936 1.709 1.693 1.900 1.421 2.326 1.796 2.372	1.198 1.005 1.190 1.258 1.130 1.215 1.122 1.171 1.174 1.002 1.399	1.092 1.000 1.000 1.157 1.007 1.198 1.534 1.143 1.024 1.000 1.086	1.000 1.000 1.113 1.013 1.000 1.159 1.078 1.071 1.002 1.052	1.011 1.000 1.018 1.003 1.051 1.036 1.089 1.002	1.000 1.000 1.021 1.000 1.000 1.199 1.035 1.000	1.000 1.000 1.074 1.000 1.012 1.082 1.056	1.000 1.000 1.036 1.000 1.001 1.007	1.000 1.000 1.010 1.000 1.010
1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	1.946 2.065 1.870 2.072 1.936 1.709 1.693 1.900 1.421 2.326 1.796	1.198 1.005 1.190 1.258 1.130 1.215 1.122 1.171 1.174 1.002	1.092 1.000 1.000 1.157 1.007 1.198 1.534 1.143 1.024 1.000	1.000 1.000 1.113 1.013 1.000 1.159 1.078 1.071 1.002	1.011 1.000 1.018 1.003 1.051 1.036 1.089 1.002 1.000	1.000 1.000 1.021 1.000 1.000 1.199 1.035 1.000	1.000 1.000 1.074 1.000 1.012 1.082 1.056	1.000 1.000 1.036 1.000 1.001 1.007	1.000 1.000 1.010 1.000 1.010
1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007	1.946 2.065 1.870 2.072 1.936 1.709 1.693 1.900 1.421 2.326 1.796 2.372	1.198 1.005 1.190 1.258 1.130 1.215 1.122 1.171 1.174 1.002 1.399	1.092 1.000 1.000 1.157 1.007 1.198 1.534 1.143 1.024 1.000 1.086	1.000 1.000 1.113 1.013 1.000 1.159 1.078 1.071 1.002 1.052	1.011 1.000 1.018 1.003 1.051 1.036 1.089 1.002 1.000	1.000 1.000 1.021 1.000 1.000 1.199 1.035 1.000	1.000 1.000 1.074 1.000 1.012 1.082 1.056	1.000 1.000 1.036 1.000 1.001 1.007	1.000 1.000 1.010 1.000 1.010
1995 1996 1997 1998 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	1.946 2.065 1.870 2.072 1.936 1.709 1.693 1.900 1.421 2.326 1.796 2.372 1.541 2.488	1.198 1.005 1.190 1.258 1.130 1.215 1.122 1.171 1.174 1.002 1.399 1.170 1.344	1.092 1.000 1.000 1.157 1.007 1.198 1.534 1.143 1.024 1.000 1.086 1.118	1.000 1.000 1.113 1.013 1.000 1.159 1.078 1.071 1.002 1.052	1.011 1.000 1.018 1.003 1.051 1.036 1.089 1.002 1.000	1.000 1.000 1.021 1.000 1.000 1.199 1.035 1.000	1.000 1.000 1.074 1.000 1.012 1.082 1.056	1.000 1.000 1.036 1.000 1.001 1.007	1.000 1.000 1.010 1.000 1.010
1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	1.946 2.065 1.870 2.072 1.936 1.709 1.693 1.900 1.421 2.326 1.796 2.372 1.541	1.198 1.005 1.190 1.258 1.130 1.215 1.122 1.171 1.174 1.002 1.399 1.170	1.092 1.000 1.000 1.157 1.007 1.198 1.534 1.143 1.024 1.000 1.086 1.118	1.000 1.000 1.113 1.013 1.000 1.159 1.078 1.071 1.002 1.052	1.011 1.000 1.018 1.003 1.051 1.036 1.089 1.002 1.000	1.000 1.000 1.021 1.000 1.000 1.199 1.035 1.000	1.000 1.000 1.074 1.000 1.012 1.082 1.056	1.000 1.000 1.036 1.000 1.001 1.007	1.000 1.000 1.010 1.000 1.010
1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011	1.946 2.065 1.870 2.072 1.936 1.709 1.693 1.900 1.421 2.326 1.796 2.372 1.541 2.488 2.406 2.129	1.198 1.005 1.190 1.258 1.130 1.215 1.122 1.171 1.174 1.002 1.399 1.170 1.344 1.106	1.092 1.000 1.000 1.157 1.007 1.198 1.534 1.143 1.024 1.000 1.086 1.118	1.000 1.000 1.113 1.013 1.000 1.159 1.078 1.071 1.002 1.052	1.011 1.000 1.018 1.003 1.051 1.036 1.089 1.002 1.000 1.107	1.000 1.000 1.021 1.000 1.000 1.199 1.035 1.000 1.000	1.000 1.000 1.074 1.000 1.012 1.082 1.056 1.000	1.000 1.000 1.036 1.000 1.001 1.007 1.020	1.000 1.000 1.011 1.000 1.011 1.000
1995 1996 1997 1998 1999 2000 2001 2002 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011	1.946 2.065 1.870 2.072 1.936 1.709 1.693 1.900 1.421 2.326 1.796 2.372 1.541 2.488 2.406 2.129	1.198 1.005 1.190 1.258 1.130 1.215 1.122 1.171 1.174 1.002 1.399 1.170 1.344 1.106	1.092 1.000 1.000 1.157 1.007 1.198 1.534 1.143 1.024 1.000 1.086 1.118 1.140	1.000 1.000 1.113 1.013 1.000 1.159 1.078 1.071 1.002 1.052	1.011 1.000 1.018 1.003 1.051 1.036 1.089 1.002 1.000 1.107	1.000 1.000 1.021 1.000 1.000 1.199 1.035 1.000 1.000	1.000 1.000 1.074 1.000 1.012 1.082 1.056 1.000	1.000 1.000 1.036 1.000 1.001 1.007 1.020	1.000 1.000 1.011 1.000 1.011 1.000
1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011	1.946 2.065 1.870 2.072 1.936 1.709 1.693 1.900 1.421 2.326 1.796 2.372 1.541 2.488 2.406 2.129	1.198 1.005 1.190 1.258 1.130 1.215 1.122 1.171 1.174 1.002 1.399 1.170 1.344 1.106	1.092 1.000 1.000 1.157 1.007 1.198 1.534 1.143 1.024 1.000 1.086 1.118 1.140	1.000 1.000 1.113 1.013 1.000 1.159 1.078 1.071 1.002 1.052 1.056	1.011 1.000 1.018 1.003 1.051 1.036 1.089 1.002 1.000 1.107	1.000 1.000 1.021 1.000 1.000 1.199 1.035 1.000 1.000	1.000 1.000 1.074 1.000 1.012 1.082 1.056 1.000	1.000 1.000 1.036 1.000 1.001 1.007 1.020	1.000 1.001 1.011 1.000 1.011 1.000
1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011	1.946 2.065 1.870 2.072 1.936 1.709 1.693 1.900 1.421 2.326 1.796 2.372 1.541 2.488 2.406 2.129	1.198 1.005 1.190 1.258 1.130 1.215 1.122 1.171 1.174 1.002 1.399 1.170 1.344 1.106	1.092 1.000 1.000 1.157 1.007 1.198 1.534 1.143 1.024 1.000 1.086 1.118 1.140	1.000 1.000 1.113 1.013 1.000 1.159 1.078 1.071 1.002 1.052 1.056	1.011 1.000 1.018 1.003 1.051 1.036 1.089 1.002 1.000 1.107	1.000 1.000 1.021 1.000 1.000 1.199 1.035 1.000 1.000	1.000 1.000 1.074 1.000 1.012 1.082 1.056 1.000	1.000 1.000 1.036 1.000 1.001 1.007 1.020	1.000 1.001 1.011 1.000 1.011 1.000 1.000
1995 1996 1997 1998 1999 2000 2001 2002 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011	1.946 2.065 1.870 2.072 1.936 1.709 1.693 1.900 1.421 2.326 1.796 2.372 1.541 2.488 2.406 2.129	1.198 1.005 1.190 1.258 1.130 1.215 1.122 1.171 1.174 1.002 1.399 1.170 1.344 1.106	1.092 1.000 1.000 1.157 1.007 1.198 1.534 1.143 1.024 1.000 1.086 1.118 1.140	1.000 1.000 1.113 1.013 1.000 1.159 1.078 1.071 1.002 1.052 1.056	1.011 1.000 1.018 1.003 1.051 1.036 1.089 1.002 1.000 1.107	1.000 1.000 1.021 1.000 1.000 1.199 1.035 1.000 1.000	1.000 1.000 1.074 1.000 1.012 1.082 1.056 1.000	1.000 1.000 1.036 1.000 1.001 1.007 1.020	1.000 1.001 1.011 1.000 1.013 1.000 1.000
1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011	1.946 2.065 1.870 2.072 1.936 1.709 1.693 1.900 1.421 2.326 1.796 2.372 1.541 2.488 2.406 2.129	1.198 1.005 1.190 1.258 1.130 1.215 1.122 1.171 1.174 1.002 1.399 1.170 1.344 1.106	1.092 1.000 1.000 1.157 1.007 1.198 1.534 1.143 1.024 1.000 1.086 1.118 1.140	1.000 1.000 1.113 1.013 1.000 1.159 1.078 1.071 1.002 1.052 1.056	1.011 1.000 1.018 1.003 1.051 1.036 1.089 1.002 1.000 1.107	1.000 1.000 1.021 1.000 1.000 1.199 1.035 1.000 1.000	1.000 1.000 1.074 1.000 1.012 1.082 1.056 1.000	1.000 1.000 1.036 1.000 1.001 1.007 1.020	1.022 1.000 1.000 1.011 1.000 1.012 1.000 1.000 1.000

WORKERS COMPENSATION INDEMNITY LOSS DEVELOPMENT FACTORS

Fiscal							Adjusted		e Paid Loss Of (Months				
<u>Year</u>	<u>120</u>	132	144	<u>156</u>	<u>168</u>	<u>180</u>	<u>192</u>	204	216	228 228	<u>240</u>	<u>252</u>	<u>264</u>
1978			21,834	21,834	21,834	21,834	21,834	21,834	21,834	21,834	21,834	21,834	21,834
1979		48,767	73,098	110,017	132,877	144,057	145,357	145,357	145,357	145,357	145,357	145,357	145,357
1980	35,296	54,135	73,763	94,286	110,435	110,435	110,435	110,435	110,435	110,435	110,435	110,435	110,435
1981	20,529	27,144	33,759	40,405	42,640	44,884	47,119	49,354	51,589	53,824	56,059	58,294	60,529
1982	106,029	122,456	140,818	159,999	160,887	160,887	160,887	160,887	160,887	160,887	160,887	160,887	160,887
1983	233,090	249,208	260,364	269,481	278,497	287,513	298,111	302,775	307,239	311,703	316,167	320,631	325,295
1984	175,886	181,486	185,599	186,549	186,549	186,549	186,549	186,549	186,549	186,549	186,549	186,549	186,549
1985	150,852	150,852	150,852	150,852 372,283	150,852	150,852 372,283	150,852	150,852	150,852	150,852	150,852	150,852	150,852 372,283
1986 1987	372,283 296,657	372,283 297,654	372,283 297,654	297,654	372,283 297,654	297,654	372,283 297,654	372,283 297,654	372,283 297,654	372,283 297,654	372,283 297,654	372,283 297,654	297,654
1988	731,742	731,742	731,742	731,742	731,742	731,742	731,803	731,803	731,803	731,803	731,803	731,803	731,803
1989	543,317	543,317	543,317	543,317	543,317	543,317	543,317	543,317	543,317	550,947	550,947	550,947	550,947
1990	402,383	403,358	403,358	403,358	403,358	403,358	403,358	403,358	403,358	403,358	403,358	403,358	403,358
1991		1,043,766	1,043,766	1,043,766					1,043,766				
1992	525,993	525,993	525,993	525,993	525,993	525,993	525,993	525,993	525,993	525,993	525,993	525,993	.,,
1993	361,292	361,292	361,292	361,292	361,292	361,292	361,292	361,292	361,292	361,292	361,292	•	
1994	362,024	362,024	362,024	362,024	362,024	362,024	362,024	362,024	362,024	362,024			
1995	489,857	489,857	489,857	489,913	489,969	489,969	490,317	492,048	496,346				
1996	356,685	356,685	356,685	356,685	356,685	356,685	356,685	356,685					
1997	711,015	711,075	711,212	711,712	727,631	727,631	727,631						
1998	429,643	429,643	429,643	429,643	429,643	429,643							
1999	316,195	316,195	316,195	310,631	310,631								
2000	663,048	677,135	684,201	688,104									
2001	506,773	506,773	506,773										
2002 2003	602,970	602,970											
2003	1,231,044												
Fiscal									nent Factors				
<u>Year</u>	<u>120-132</u>	<u>132-144</u>	<u>144-156</u>	<u>156-168</u>	<u>168-180</u>	<u>180-192</u>	<u>192-204</u>	<u>204-216</u>	<u>216-228</u>	<u>228-240</u>	<u>240-252</u>	<u>252-264</u>	<u>264-Ult.</u>
1978			1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1979		1.499	1.505	1.208	1.084	1.009	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1980	1.534	1.363	1.278	1.171	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1981	1.322	1.244	1.197	1.055	1.053	1.050	1.047	1.045	1.043	1.042	1.040	1.038	1.028
1982	1.155	1.150	1.136	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1983	1.069	1.045	1.035	1.033	1.032	1.037	1.016	1.015	1.015	1.014	1.014	1.015	1.000
1984	1.032	1.023	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1985	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1986	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1987	1.003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1988 1989	1.000 1.000	1.000 1.014	1.000 1.000	1.000 1.000	1.000 1.000	1.000 1.000							
1969	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.014	1.000	1.000	1.000	1.000
1991	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1992	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
1993	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
1994	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
1995	1.000	1.000	1.000	1.000	1.000	1.001	1.004	1.009					
1996	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
1997	1.000	1.000	1.001	1.022	1.000	1.000							
1998	1.000	1.000	1.000	1.000	1.000								
1999	1.000	1.000	0.982	1.000									
2000	1.021	1.010	1.006										
2001 2002	1.000 1.000	1.000											
		1.050	1.050	1.022	1 000	1.005	1.004	1.004	1.004	1.002	1.004	1 004	1.002
Mean 3 Yr. Mean	1.050 1.007	1.058 1.003	1.050 0.996	1.023 1.007	1.008 1.000	1.005 1.000	1.004 1.001	1.004 1.003	1.004 1.000	1.003 1.000	1.004 1.000	1.004 1.000	1.002 1.000
Yr. Mean	1.007	1.003	0.998	1.007	1.000	1.000	1.001	1.003	1.000	1.000	1.000	1.000	1.000
Best 3	1.004	1.002	1.000	1.004	1.000	1.000	1.001	1.002	1.000	1.000	1.000	1.000	1.000
2-1/			4.000		4.000	4.000	4.000				4.000		
Selected Cumulative	1.003 1.005	1.002 1.002	1.000 1.000	1.000 1.000	1.000 1.000	1.000 1.000	1.000 1.000						
Junulative	1.005	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

WORKERS COMPENSATION MEDICAL ONLY HISTORICAL LOSS DATA

Fiscal					Value	d As Of (Mo					
<u>Year</u>	<u>12</u>	<u>24</u>	<u>36</u>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>	<u>96</u>	<u>108</u>	<u>120</u>	<u>132</u>
1989	16,707	23,305	23,305	23,305	23,305	23,905	23,905	23,905	23,905	23,905	23,9
1990	23,114	29,040	29,646	29,646	29,646	29,646	29,646	29,646	29,646	29,646	29,6
1991	2,960	3,346	12,650	41,187	41,187	41,187	41,187	41,187	41,187	41,187	41,1
1992	33	17,928	50,185	50,185	50,185	50,185	50,185	50,185	50,185	50,185	50,1
1993	10,419	54,025	55,048	55,048	55,048	55,048	55,048	55,048	55,048	55,048	55,0
1994	18,509	41,202	41,715	41,715	41,715	41,715	41,715	41,715	41,715	41,715	41,7
1995	22,975	30,235	30,253	30,253	30,253	30,253	30,253	30,253	30,253	30,253	30,2
1996	23,877	37,491	37,710	38,256	38,256	38,256	38,256	38,256	38,256	38,256	38,2
1997	24,696	36,216	52,656	52,656	52,656	52,656	52,656	52,656	52,656	52,656	52,6
1998	15,742	20,874	21,654	21,654	21,654	21,654	21,654	21,654	21,654	21,654	21,0
1999	21,591	25,809	26,098	26,098	26,164	26,164	26,186	26,186	26,186	26,186	26,
2000	18,865	29,410	29,504	29,828	29,828	29,828	29,828	29,828	29,828	29,828	29,8
2001	30,657	48,528	48,754	52,518	52,518	52,518	52,518	52,518	52,518	52,518	52,5
2002	38,981	56,866	56,866	57,332	57,392	57,392	57,813	57,813	57,813	57,813	57,8
2003	40,915	47,993	48,175	48,175	48,175	48,175	48,175	48,175	48,175	48,175	,
2004	50,291	83,306	85,102	93,370	96,404	97,277	97,765	97,765	97,765	-, -	
2005	35,622	50,864	54,109	54,109	54,109	54,109	54,109	54,109	- ,		
2006	29,844	45,820	45,820	45,820	45,839	45,839	45,839	,			
2007	50,432	63,186	63,186	63,186	63,186	63,186	10,000				
2008	49,696	53,830	53,967	54,171	54,171	,					
2009	23,767	36,677	42,316	42,316	o .,						
2010	16,700	18,078	18,078	,							
2011	30,937	36,672	,								
2012	31,718	00,012									
<u>Year</u>	<u>12-24</u>	<u>24-36</u>	<u>36-48</u>	<u>48-60</u>	60-72	72-84	<u>84-96</u>	<u>96-108</u>	108-120	120-132	<u>132-l</u>
1989	1.395	1.000	1.000	1.000	1.026	1.000	1.000	1.000	1.000	1.000	
1990	1.256	1.021	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1990 1991	1.256 1.130	1.021 3.781	1.000 3.256	1.000 1.000	1.000 1.000	1.000 1.000	1.000 1.000	1.000 1.000	1.000 1.000	1.000 1.000	
1990 1991 1992	1.256 1.130 543.273	1.021 3.781 2.799	1.000 3.256 1.000	1.000 1.000 1.000	1.000 1.000 1.000	1.000 1.000 1.000	1.000 1.000 1.000	1.000 1.000 1.000	1.000 1.000 1.000	1.000 1.000 1.000	
1990 1991 1992 1993	1.256 1.130 543.273 5.185	1.021 3.781 2.799 1.019	1.000 3.256 1.000 1.000	1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000	
1990 1991 1992 1993 1994	1.256 1.130 543.273 5.185 2.226	1.021 3.781 2.799 1.019 1.012	1.000 3.256 1.000 1.000	1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000	
1990 1991 1992 1993 1994 1995	1.256 1.130 543.273 5.185 2.226 1.316	1.021 3.781 2.799 1.019 1.012 1.001	1.000 3.256 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000	
1990 1991 1992 1993 1994 1995 1996	1.256 1.130 543.273 5.185 2.226 1.316 1.570	1.021 3.781 2.799 1.019 1.012 1.001 1.006	1.000 3.256 1.000 1.000 1.000 1.000 1.014	1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000	
1990 1991 1992 1993 1994 1995 1996 1997	1.256 1.130 543.273 5.185 2.226 1.316 1.570 1.466	1.021 3.781 2.799 1.019 1.012 1.001 1.006 1.454	1.000 3.256 1.000 1.000 1.000 1.000 1.014 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	
1990 1991 1992 1993 1994 1995 1996 1997 1998	1.256 1.130 543.273 5.185 2.226 1.316 1.570 1.466 1.326	1.021 3.781 2.799 1.019 1.012 1.001 1.006 1.454 1.037	1.000 3.256 1.000 1.000 1.000 1.000 1.014 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	
1990 1991 1992 1993 1994 1995 1996 1997 1998 1999	1.256 1.130 543.273 5.185 2.226 1.316 1.570 1.466 1.326 1.195	1.021 3.781 2.799 1.019 1.012 1.001 1.006 1.454 1.037	1.000 3.256 1.000 1.000 1.000 1.000 1.014 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	
1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000	1.256 1.130 543.273 5.185 2.226 1.316 1.570 1.466 1.326 1.195 1.559	1.021 3.781 2.799 1.019 1.012 1.001 1.006 1.454 1.037 1.011 1.003	1.000 3.256 1.000 1.000 1.000 1.000 1.014 1.000 1.000 1.000 1.011	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.003 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	
1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	1.256 1.130 543.273 5.185 2.226 1.316 1.570 1.466 1.326 1.195 1.559 1.583	1.021 3.781 2.799 1.019 1.012 1.001 1.006 1.454 1.037 1.011 1.003 1.005	1.000 3.256 1.000 1.000 1.000 1.000 1.014 1.000 1.000 1.000 1.011 1.077	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	
1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	1.256 1.130 543.273 5.185 2.226 1.316 1.570 1.466 1.326 1.195 1.559 1.583 1.459	1.021 3.781 2.799 1.019 1.012 1.001 1.006 1.454 1.037 1.011 1.003 1.005 1.000	1.000 3.256 1.000 1.000 1.000 1.000 1.014 1.000 1.000 1.000 1.011 1.077 1.008	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	
1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003	1.256 1.130 543.273 5.185 2.226 1.316 1.570 1.466 1.326 1.195 1.559 1.583 1.459 1.173	1.021 3.781 2.799 1.019 1.012 1.001 1.006 1.454 1.037 1.011 1.003 1.005 1.000	1.000 3.256 1.000 1.000 1.000 1.000 1.014 1.000 1.000 1.000 1.011 1.077 1.008 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	
1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004	1.256 1.130 543.273 5.185 2.226 1.316 1.570 1.466 1.326 1.195 1.559 1.583 1.459 1.173 1.656	1.021 3.781 2.799 1.019 1.012 1.001 1.006 1.454 1.037 1.011 1.003 1.005 1.000 1.004	1.000 3.256 1.000 1.000 1.000 1.000 1.014 1.000 1.000 1.000 1.011 1.077 1.008 1.000 1.097	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	
1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005	1.256 1.130 543.273 5.185 2.226 1.316 1.570 1.466 1.326 1.195 1.559 1.583 1.459 1.173 1.656 1.428	1.021 3.781 2.799 1.019 1.012 1.001 1.006 1.454 1.037 1.011 1.003 1.005 1.000 1.004 1.022 1.064	1.000 3.256 1.000 1.000 1.000 1.000 1.014 1.000 1.000 1.000 1.011 1.077 1.008 1.000 1.097	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	
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CITY OF NEWTON Exhibit 6

WORKERS COMPENSATION EXPOSURE INFORMATION

Fiscal Year Ending	Covered Payroll	
<u>June 30,</u>	<u>(\$00)</u>	
(1)	(2)	
1992	226,774	
1993	233,157	
1994	253,882	
1995	256,823	
1996	270,263	
1997	282,380	
1998	287,177	
1999	309,695	
2000	314,406	
2001	322,083	
2002	354,569	
2003	362,190	
2004	362,318	
2005	365,553	
2006	378,519	
2007	405,875	
2008	415,644	
2009	414,492	
2010	420,324	
2011	416,654	
2012	413,666	
2013	438,957	

Provided by the City