

GASB Statements No. 74 and 75
Report for Fiscal Year 2019

Town of Medfield

Lawrence B. Stone



stoneconsulting,inc

5 West Mill Street, Suite 4
Medfield, Massachusetts 02052
T: 508.359.9600 • F: 508.359.0190
Lstone@stoneconsult.com

TABLE OF CONTENTS

	PAGE
Actuarial Certification	
SECTION I – ACTUARIAL RESULTS.....	1
Summary of Results.....	1
GASB Statement No. 74 – Net OPEB Liability.....	3
Changes from Prior Report	4
Distribution of the Member Population	4
Development of Exhibits.....	5
Discount Sensitivity.....	6
Trend Sensitivity.....	6
Long-Term Expected Real Rate of Return.....	7
Schedule of Changes in the Town of Medfield’s Net OPEB Liability and Related Ratios – GASB 74.....	8
Schedule of Plan Contributions - GASB 74.....	9
GASB Statement No. 74, Paragraph 34 b. (3) - Money-Weighted Rate of Return.....	10
Changes in the Net OPEB Liability [GASB 75, Paragraph 55].....	11
Projection of the Net OPEB Liability.....	12
OPEB Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB [GASB 75, Paragraph 56 h.].....	13
Components of the Town of Medfield’s OPEB Expense.....	14
Increase / (Decrease) in OPEB Expense Arising from the Recognition of Gains and Losses – GASB 75 ...	16
Deferred Outflows and Deferred Inflows of Resources Arising from Gains and Losses.....	17
SECTION II - ACTUARIAL VALUATION DETAILS.....	18
Population Data	18
SECTION III – APPENDICES.....	21
Actuarial Methods.....	21
Actuarial Assumptions	21
Principal Plan Provisions Recognized in Valuation.....	31
Glossary.....	31

October 17, 2019

Ms. Joy A. Ricciuto, C.G.A.
Town Accountant
Town of Medfield
459 Main Street
Medfield, MA 02052

Dear Ms. Ricciuto:

For the purpose of satisfying the requirements of the Government Accounting Standards Board (GASB) Statements No. 74 and 75, Stone Consulting, Inc. has prepared a set of illustrative tables and other Required Supplementary Information (RSI) based on the January 1, 2019 actuarial valuation of the Town of Medfield Other Post-employment Benefits (OPEB) plan performed by Stone Consulting, Inc. The valuation and this report were prepared using generally accepted actuarial principles and practices and meet the parameters set by the Governmental Accounting Standards Board (GASB).

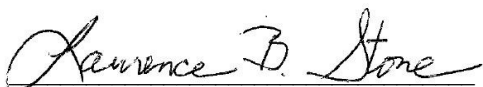
For GASB 74, the results are as of a valuation date of January 1, 2019, and an OPEB plan fiscal year-end of June 30, 2019. For GASB 75, the results are as of a valuation date of January 1, 2019, a measurement date of June 30, 2019, and a reporting date of June 30, 2019. To the best of our knowledge, this report is complete and accurate, and the assumptions used represent our best estimate of anticipated experience of the system unless required by statute or by the GASB standard.

We are pleased to present these exhibits. If the Town of Medfield or the Town of Medfield OPEB Trust has any questions on the content of this report, we would be glad to respond. Please note that this report is meant to be used in its entirety. Use of excerpts of this report may result in a misleading or inaccurate understanding of the results.

Stone Consulting, Inc. is completely independent of the Town of Medfield or the Town of Medfield OPEB Trust, including any of their officers and key personnel. Neither we or anyone else closely associated with us has any relationship with the Town of Medfield or the Town of Medfield OPEB Trust which would impair our independence, other than this or related assignments.

The undersigned are consultants for Stone Consulting, Inc. and members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Respectfully submitted,
STONE CONSULTING, INC.


Lawrence B. Stone
Member, American Academy of Actuaries


Kevin K. Gabriel, FSA
Member, American Academy of Actuaries

SECTION I – ACTUARIAL RESULTS

Summary of Results

The most recent actuarial OPEB valuation performed by Stone Consulting for the Town of Medfield was on January 1, 2019. Participant census data as of January 1, 2019 was supplied by the Town of Medfield and liabilities were first determined as of that date. Update procedures were used to roll the Total OPEB Liability from the valuation date to June 30, 2019, the OPEB plan’s fiscal year-end (GASB 74) and the measurement date (GASB 75).

The key results as of June 30, 2019 were:

Total OPEB Liability	\$ 38,925,805
Plan Fiduciary Net Position	<u>3,470,967</u>
Net OPEB Liability	\$ 35,454,838

- “Total OPEB Liability” is the total liability for all benefits as of the reporting date and is based on a projection of future liabilities based on the Town of Medfield’s actuarial assumptions.
- “Plan Fiduciary Net Position” is the amount of assets available and in the OPEB trust as of the end of the 2019 Fiscal Year, 06/30/2019.
- “Net OPEB Liability” is the difference between the above two figures and is the amount of the future liability not funded as of the reporting date.

These amounts are calculated by using what is referred to as the “Entry Age Normal” actuarial cost method, which is the method required by GASB. Note, also, that these figures are intended for financial reporting and are not intended to be used to determine funding of the OPEB plan.

Normal Cost

The “Normal” (or “Service”) Cost is the cost of benefits accruing in each year.

Normal Cost for FY 2019	\$ 1,573,811
-------------------------	--------------

The figure above comes from the prior year valuation, which used a discount rate of 5.47%.

The discount rate for the 2019 valuation is 5.94%; the effect of this and other assumption changes are shown in the “Change in assumptions” figure in the chart on page 3 which displays changes in the Net OPEB Liability. Assumption changes and their effects are discussed in more detail on page 4, under “changes from prior valuation”.

The 5.94% rate was based on an assessment of the Town of Medfield's investment strategy and should be thought of as the expected net long-term rate of return on the Town of Medfield's invested assets. The rate is determined based on a projection of future cash flows and assumes that the Town of Medfield makes additional contributions of \$425,00 per year. Should the future contribution amount schedule change or the target asset allocation change, the valuation discount rate could change.

Funding

Valuations performed for GASB74/75 purposes are not intended to be funding valuations. Rather, they are intended for use by accountants in developing financial statements. The rules set forth by GASB are designed to ensure that all entities report on a comparable basis. Development of a funding schedule requires additional assumptions and a separate actuarial valuation. Should an entity such as the Town of Medfield wish to develop a plan to fund its liability on an actuarial basis in total or in part, it is free to choose:

- The actuarial cost method used in determining the liability
- The length and amortization of the funding schedule, including establishment of various bases
- Actuarial assumptions, such as the discount rate (this rate would not need to tie into a cash flow analysis such as in Statements 74 and 75)

In general, the funding amount is an amount to cover the Normal Cost for the year plus an amount to amortize the unfunded liability over a period of time.

The amortization amount, using the same actuarial cost method and discount rate, would be the amount required to pay off the unfunded liability of \$35,454,838 over a given period of time and using a particular pattern (level, increasing, etc.).

Use of a different cost method, discount rate, or other assumptions would give a different number for the Normal Cost, the unfunded OPEB Liability, and amortization amount.

The Town of Medfield has not asked Stone Consulting to prepare a funding schedule for them.

GASB Statement No. 74 – Net OPEB Liability

The components of the Net OPEB Liability for the Town of Medfield as of an OPEB plan fiscal year-end of June 30, 2019 were as follows:

	FY 2019	FY 2018
Total OPEB Liability		
Service Cost	\$ 1,573,811	\$ 1,591,851
Interest	2,456,470	2,143,436
Changes in Benefit Terms	0	0
Differences between expected and actual experience	(5,360,645)	0
Changes of assumptions	(2,381,294)	(248,102)
Benefit payments	(1,393,557)	(1,466,077)
Net change in Total OPEB liability	\$ (5,105,214)	\$ 2,021,108
Total OPEB Liability – beginning (5.47%)	44,031,020	42,009,912
Total OPEB Liability – ending (5.94%) (a)	\$ 38,925,805	\$ 44,031,020
Plan Fiduciary Net Position		
Contributions – employer*	\$ 1,793,557	\$ 1,866,077
Net Investment Income	181,475	251,319
Benefit payments	(1,393,557)	(1,466,077)
Administrative expenses	0	0
Net change in Plan Fiduciary Net Position	\$ 581,475	\$ 651,319
Plan Fiduciary Net Position – beginning	2,889,492	2,238,173
Plan Fiduciary Net Position – ending (b)	\$ 3,470,967	\$ 2,889,492
Net OPEB Liability – ending (a) – (b)	\$ 35,454,838	\$ 41,141,528
Plan fiduciary net position as a percentage of total OPEB liability	8.9%	6.6%

*Employer contribution of \$1,393,557 of Pay-As-You-Go and a \$400,000 cash contribution for FY2019.

Update procedures were used to roll the Total OPEB Liability from the valuation date (01/01/2019) to the OPEB plan's fiscal year-end (06/30/2019). [GASB Statement No. 74, Paragraph 35(c)]

Note: Charts in this report may not total due to rounding.

Changes from Prior Report

The following is a discussion of the reasons for some of the changes from the prior report:

- 1) Assumption change: The assumption change of \$(2,381,294) is due to:
 - a. An increase in the discount rate, which decreased liabilities by \$1,418,943.
 - b. A change in the mortality assumption, which decreased liabilities by \$784,917.
 - c. A change in the morbidity assumption to calculate age-graded claim rates based on Health Care Costs – From Birth to Death, published by the Society of Actuaries in June, 2013, which decreased liabilities by \$1,051,793.
 - d. A change in withdrawal, disability and retirement assumptions for teachers. The new assumptions are based on the 2014 Massachusetts Teachers Retirement System experience study conducted by PERAC. These assumption changes increased liabilities by \$874,359.

Note: The individual assumption changes do not total to the overall assumption amount. The reason is that the individual assumption changes interact with each other which is not captured in the measurement of the assumption changes.

- 2) Experience change:
 - a. There was a 9% decrease in liabilities due to lower than expected claims and trends.
 - b. There was a 6% decrease in liabilities due to a shift in population data. About 2% of this decrease was due to a decrease in the percentage of retirees choosing family coverage.

Distribution of the Member Population

Town of Medfield OPEB Trust – Membership as of June 30, 2019

	2019
Retired, Disabled, Survivors and Beneficiaries receiving benefits	229
Inactive plan members entitled to but not yet receiving benefit payments	4
Active plan members	522
Total	755

These numbers are based on the data supplied by the Town of Medfield as of June 30, 2019. Note that these membership numbers count a retiree and a spouse as only one member, even if they have separate policies.

Development of Exhibits

DISCOUNT RATE

Total OPEB Liability as of the plan's fiscal year-end (June 30, 2019) is calculated using a discount rate assumption of 5.94%. To calculate this rate, Stone Consulting has conducted a cash flow study of the Trust assets and liabilities. Using a rate consistent with the Town of Medfield's investment strategy (7.50%), we determine the length of time for which the assets would support OPEB benefit payments for current and projected new employees. For the Town of Medfield, the depletion point comes after approximately 41 years. The present value of OPEB benefits is then calculated using a rate consistent with the Town of Medfield's investment strategy (7.50%) before the depletion point and a rate based on 20-year Municipal General Obligation bonds as shown in the Bond Buyer 20 Bond Index (3.50% as of June, 2019) after the depletion point. Finally, a single rate producing an equivalent present value of benefits is calculated. This is the 5.94% rate we have used for the Town of Medfield. One of the objectives of the provisions introduced by GASB 74 and 75 is to examine how benefit payments and plan contributions and investment earnings interact on a cash flow basis. GASB 74 and 75 require that these amounts be calculated with the Fair Value of Assets and using the Entry Age Normal cost method.

Projected contributions for each year are the sum of cash payments of \$400,000 and the pay-as-you-go funding of the retirees' benefits. Consistent with the requirements of GASB Statement No. 74 and 75, we have first assigned the contribution to the cost of projected new entrants prior to allocating the remainder to cover existing active and inactive employees.

In the future, if there are enough assets to cover the cost of new entrants for the entire period of our projection, we will use the long-term rate of return for that period (currently 7.50%).

The long-term rate of return which was used to develop the discount rate of 5.94% includes the effect of inflation (not subtracted out as in the real rates of return). It is based on a combination of expected rates of return on the mix of current and expected investments over a long-term period. These expectations are based on current market conditions, historical experience and future expectations. It assumes a rebalancing of assets on an ongoing basis as well as a constant monitoring of asset allocation and manager performance. Since Medfield's OPEB plan is in an asset accumulation phase, we believe that it is reasonable to use a longer-term outlook than what is used for most Massachusetts public pension systems.

GASB Statement No. 74, Paragraph 34(b)(3) requires that an annual money-weighted rate of return be developed using the market value of assets at the beginning of the Plan Year, along with monthly cash flows. This has been done for the 2019 Fiscal year, and is shown below:

Fiscal Year	2019
Money-Weighted Rate of Return	5.57%

For detailed calculations of this amount, see the schedule on page 10.

Discount Sensitivity

The following presents the Town of Medfield’s Net OPEB Liability calculated at the valuation discount rate of 5.94%, as well as at discount rates one percent higher (6.94%) and one percent lower (4.94%).

OPEB Plan Fiscal Year-End	1% Decrease (4.94%)	Current Discount Rate (5.94%)	1% Increase (6.94%)
06/30/2019	\$ 40,484,707	\$ 35,454,838	\$ 31,293,396

Sensitivity of Current Valuation to Funding Level

To give the Town of Medfield some idea of the sensitivity of the discount rate employed in the GASB valuation to the assumed funding level, Stone Consulting has performed depletion analysis under various funding scenarios. For example, if the Town of Medfield were to cease making the assumed contributions to the OPEB trust of \$400,000 per year, the discount rate employed would be lowered by 154 basis points from 5.94% to 4.40%. Lower returns than 7.25% per annum will increase the number of years the Town of Medfield needs to contribute and lower the blended discount rate. Changes in the 20-year Municipal General Obligation bond rate will also impact the blended discount rate. We have not calculated liabilities at the 4.40% rate; however, as shown above, a 4.94% discount rate increases the Net OPEB Liability from \$35,454,838 to \$40,484,707.

These sensitivity calculations assume the same assumptions and methods as used in the original valuation with only a change in the amount the Town of Medfield plans to contribute. They also assume no change in the Town of Medfield investment strategy. A change in such strategy would also impact the discount rate determined.

Trend Sensitivity

For postretirement medical plans, the calculated actuarial values are highly sensitive to the assumed rate of health care cost trend. This is due to the compounding effect of the annual trend rates assumed for medical costs, as opposed to pension valuations where benefit levels typically remain fixed.

The following table illustrates the effect on our valuation results of a 1% increase or decrease in the assumed rates of health care cost trend in each year.

OPEB Plan Fiscal Year-End	1% Decrease	Base Trend *	1% Increase
06/30/2019	\$ 30,308,713	\$ 35,454,838	\$ 41,890,005

* Base trend rates are found in Actuarial Assumptions and Methods, page 29.

Long-Term Expected Real Rate of Return

The long-term expected real rate of return reflects the expected rate of return on plan assets adjusted for the expected rate of inflation. Note that the discount rate includes the effect of inflation. The long-term real rate of return removes the effect of inflation on the return amounts. It is a long-term assumption and is meant to reflect a best estimate of future experience, based on the expected asset allocation. The allocation percentages are based on information provided by the Town of Medfield and PRIT’s asset consultant, NEPC. The real rates of return below are based on 30-year return estimates provided by NEPC through the Pension Reserve Investment Trust, adjusted using NEPC’s 2.25% inflation assumption.

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return (Geometric Average)
US Equity	13%	5.25%
International Equities	13%	5.43%
Emerging Equities	5%	6.90%
Hedged Equity	8%	4.54%
Core Bonds	6%	2.07%
Short-Term Fixed Income	2%	1.72%
20+ Yr. Treasury STRIPS	3%	1.22%
TIPS	4%	1.71%
Value-Added Fixed Income	8%	5.21%
Private Equity	13%	8.70%
Real Estate	10%	4.09%
Timberland	4%	4.65%
Portfolio Completion (PCS)	11%	4.41%

Schedule of Changes in the Town of Medfield's Net OPEB Liability and Related Ratios – GASB 74

(Amounts in Thousands)

Fiscal Year *	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
TOTAL OPEB LIABILITY										
Service cost	1,574	1,592	1,532							
Interest	2,456	2,143	2,034							
Change of benefit terms	0	0	0							
Differences between expected and actual experience	(5,361)	0	0							
Change of assumptions	(2,381)	(248)	0							
Benefit payments	(1,394)	(1,466)	(1,408)							
Net change in total OPEB liability	(5,105)	2,021	2,159							
Total OPEB liability - beginning	44,031	42,010	39,851							
Total OPEB liability - ending	38,926	44,031	42,010							
PLAN FIDUCIARY NET POSITION										
Contributions - employer	1,794	1,866	1,853							
Contributions - employee	0	0	0							
Net Investment Income	181	251	253							
Benefit payments	(1,394)	(1,466)	(1,408)							
Administrative expense	0	0	0							
Other	0	0	0							
Net change in plan fiduciary net position	581	651	699							
Plan fiduciary net position - beginning	2,889	2,238	1,539							
Plan fiduciary net position - end	3,471	2,889	2,238							
Town of Medfield Net OPEB Liability – ending	35,455	41,142	39,772							
Plan fiduciary net position as a percentage of the total OPEB liability	8.9%	6.6%	5.3%							
Money-Weighted Rate of Return	5.57%	11.15%	12.77%							

Schedule of Plan Contributions - GASB 74

Plan Year-End of June 30,	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Actuarially Determined Contribution	N/A	N/A	4,108							
Contributions in relation to the Actuarially Determined Contribution	N/A	N/A	(1,853)							
Contribution deficiency / (excess)	N/A	N/A	2,255							

There is no requirement that an actuarially determined contribution (ADC) be calculated. There is no statutory ADC, and the Town of Medfield is currently not funding the OPEB liability on an actuarial basis. Therefore, Stone Consulting, Inc. has not calculated an ADC for Fiscal 2019.

GASB Statement No. 74, Paragraph 34 b. (3) - Money-Weighted Rate of Return

NET EXTERNAL CASH FLOW					
	Beginning of month	Middle of Month	End of Month	Periods Invested**	Cash Flow with Return
Starting Value* (7/1/2018)	\$2,889,492.00			12	\$ 3,050,573.30
<u>Cash Flows:</u>					
July				11	0.00
August	400,000.00			10	420,394.12
September				9	0.00
October				8	0.00
November				7	0.00
December				6	0.00
January				5	0.00
February				4	0.00
March				3	0.00
April				2	0.00
May				1	0.00
June				0	<u>0.00</u>
Ending Value* (6/30/2019)	\$3,470,967.42			Sum:	\$ 3,470,967.42

* Value shown does not include any payables or receivables, except those related to investments.

** Middle of period cash flows are given an additional half period of interest, and beginning of period cash flows are given an additional full period.

Return Rate: 5.57%

Changes in the Net OPEB Liability [GASB 75, Paragraph 55]

	Total OPEB Liability at 5.47% (a)	Plan Fiduciary Net Position (b)	Net OPEB Liability (a) - (b)
Balances at beginning of Measurement Period (07/01/2018)	\$ 44,031,020	\$ 2,889,492	\$ 41,141,528
Changes for the Year:			
Service Cost	1,573,811		1,573,811
Interest	2,456,470		2,456,470
Change in benefit terms	0		0
Differences between expected and actual experience	(5,360,645)		(5,360,645)
Change in assumptions	(2,381,294)		(2,381,294)
Contributions - employer		1,793,557	(1,793,557)
Contributions - employee		0	0
Net investment income		181,475	(181,475)
Benefit payments, including refunds of employee contributions	(1,393,557)	(1,393,557)	0
Administrative expense		0	0
Other changes		0	0
Net Changes	<u>(5,105,214)</u>	<u>581,475</u>	<u>(5,686,690)</u>
Balances at end of Measurement Period (06/30/2019)	\$ 38,925,805	\$ 3,470,967	\$ 35,454,838

NOTE: Amounts shown in this report may not total due to rounding

Update procedures were used to roll the Total OPEB Liability from the valuation date (01/01/2019) to the measurement date (06/30/2019). [GASB Statement No. 75, Paragraph 28]

Plan Fiduciary Net Position as a percentage of Net OPEB Liability	8.9%
Covered Employee Payroll *	\$37,701,382
Net OPEB Liability as a percentage of payroll	94.0%

* Calendar Year 2018 pensionable payroll rolled forward with one-half year salary scale of 3.80%.

Projection of the Net OPEB Liability

TOTAL OPEB LIABILITY (TOL)

The Total OPEB Liability at the beginning of the measurement period (07/01/2018) is equal to the Actuarial Accrued Liability (AAL) rolled from 07/01/2017. Any differences between the projected amount and the actual value that are not the result of changes in assumptions or plan provisions are recognized as “Differences between expected and actual experience.” GASB Statement No. 75, Paragraph 42 requires that the AAL be calculated under the Entry Age Normal Cost Method. The components of the AAL (calculated as of 01/01/2019 at a discount rate of 5.94%) are as follows:

Actives	\$ 17,824,677
Retirees, Disabled, Beneficiaries, and Vested terminated	<u>18,788,971</u>
Total	\$ 36,613,648

The TOL is projected to the end of the measurement period (06/30/2019) by adding the changes resulting from experience, assumption changes, and changes to plan provisions. Interest is given to the TOL, Service Cost, and paid benefits, and added to the total, less the projected benefit payments for the year. Changes due to expected and actual gains on plan assets will be recognized over a five-year period [GASB Statement No. 75, Paragraph 43b], and liabilities arising from changes in plan structure or assumptions will be spread over the average of the expected remaining service lives of all employees that are provided with OPEB through the OPEB plan (active employees and inactive employees) [GASB Statement No. 75, Paragraph 43a]. Changes in Plan provisions are recognized immediately.

PLAN FIDUCIARY NET POSITION (FNP)

GASB Statement No. 75 requires that the Fair Value of Assets be used for the Fiduciary Net Position. We have used the Market Value of Assets, adjusted for payables and receivables. Net investment income is the portion of the change in assets during the measurement period that is not attributed to employee/employer contributions, benefits payments, administrative expense, or other changes.

The projected Net OPEB Liability (NOL) for the end of the year is the portion of the TOL not covered by the FNP.

OPEB Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB
[GASB 75, Paragraph 56 h.]

	Deferred Outflows Of Resources	Deferred Inflows Of Resources
Differences between expected and actual experience	\$ 0	\$ (4,556,950)
Changes of assumptions	0	(2,205,686)
Net difference between projected and actual earnings on plan investments	0	(87,630)
Total	\$ 0	\$ (6,850,267)

Year Ending June 30, *	Recognition
2020	\$ (1,222,436)
2021	(1,222,436)
2022	(1,222,436)
2023	(1,196,554)
2024	(1,194,058)
Thereafter	(792,349)

*The years are based on measurement date of June 30, 2019. For GASB 75, the reporting date is the same as the measurement date, so the year ending June 30, 2020 is Fiscal 2020.

Components of the Town of Medfield's OPEB Expense

Components of the Town of Medfield's OPEB Expense for the Fiscal Year ended June 30, 2019 [GASB 75, Paragraph 43] are shown below.

NOTE*	Description	Fiscal 2019	Fiscal 2018
A	Service Cost	\$ 1,573,811	\$ 1,591,851
A, B	Interest	2,456,470	2,143,436
C	Differences between Expected and Actual Experience	(803,695)	0
D	Changes of Assumptions	(390,363)	(33,347)
D	Changes to Benefit Provisions	0	0
E	Projected Earnings on Plan Investments	(168,995)	(121,909)
F	Differences between Projected and Actual Earnings on Plan Investments	(28,378)	(25,882)
A	Administrative Expense	0	0
A	Other Changes in Fiduciary Net Position	0	0
	Total OPEB Expense	\$ 2,638,851	\$ 3,554,149

* Notes shown on page 15. Amounts are based on the following dates:

- Valuation date: January 1, 2019
- Measurement date: June 30, 2019
- Reporting date: June 30, 2019

CHANGES IN METHODS, ASSUMPTIONS, AND PLAN PROVISIONS

Morbidity was changed to calculate age-graded claim rates based on Health Care Costs – From Birth to Death, published by the Society of Actuaries in June, 2013. Mortality was changed from the RP-2000 Mortality Tables, sex-distinct, for Employees projected using generational mortality to the RP-2014 Mortality Tables adjusted to 2006, sex-distinct, for Healthy Annuitants projected using generational mortality and scale MP-2016. Withdrawal, disability and retirement assumptions for teachers were changed to be based on the 2014 Massachusetts Teachers Retirement System experience study conducted by PERAC. The discount rate was changed from 5.47% to 5.94%.

There were no changes in plan provisions in the 01/01/2019 valuation used for Fiscal 2019.

NOTES

- A. See the RSI schedule of changes to the Net OPEB Liability, on page 11.
- B. Events that impact the Total OPEB Liability are assumed to happen evenly throughout the period. In addition, the amount of interest is calculated using an interest rate equal to the discount rate that was used to determine the service cost. The amount is determined as follows:

Description	Amount for Period (a)	Portion of Period (b)	Interest Rate (c)	Interest on the Total OPEB Liability (a) x (b) x (c)
Beginning Total OPEB Liability	\$ 44,031,020	100%	5.47%	\$ 2,408,497
Service cost	1,573,811	100%	5.47%	86,087
Benefit payments	\$ (1,393,557)	50%	5.47%	(38,114)
Interest				\$ 2,456,470

- C. Differences between expected and actual experience recognized in the current period in accordance with paragraph 43a of Statement 75. For the detailed calculation of this amount, see the schedule on page 16.
- D. Assumption and plan provision changes recognized in OPEB Expense in the current period in accordance with paragraph 43a of Statement 75. For detailed calculations of these amounts, see the schedule on page 16.
- E. Changes in the amounts invested are assumed to occur evenly throughout the period. In addition, the amount of projected earnings on plan investments is calculated using the assumed rate of return on plan investments as of the beginning of the period. The amount is determined as follows:

Description	Amount for Period (a)	Portion of Period (b)	Projected Rate of Return (c)	Projected Earnings (a) x (b) x (c)
Beginning plan Fiduciary Net Position	\$ 2,889,492	100%	5.47%	\$ 158,055
Employer contributions	1,793,557	50%	5.47%	49,054
Employee contributions	0	50%	5.47%	0
Benefit payments	(1,393,557)	50%	5.47%	(38,114)
Administrative expense	0	50%	5.47%	0
Total projected earnings				\$ 168,995
Actual earnings				181,475
Difference between projected and actual earnings				\$ (12,480)

- F. Differences between projected and actual earnings recognized in the current period in accordance with paragraph 43b of Statement 75. For detailed calculation of this amount, see the schedule on page 16.

Increase / (Decrease) in OPEB Expense Arising from the Recognition of Gains and Losses – GASB 75

Increase / (Decrease) in OPEB Expense Arising from the Recognition of the Effects of Differences between Expected and Actual Experience

Fiscal Year	Differences between actual and expected experience	Recognition period (years)	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
2018	\$ -	7.44	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2019	\$ (5,360,645)	6.67		\$ (803,695)	\$ (803,695)	\$ (803,695)	\$ (803,695)	\$ (803,695)	\$ (803,695)	\$ (538,476)	\$ -	\$ -
Net increase (decrease) in OPEB expense			\$ -	\$ (803,695)	\$ (803,695)	\$ (803,695)	\$ (803,695)	\$ (803,695)	\$ (803,695)	\$ (538,476)	\$ -	\$ -

Increase / (Decrease) in OPEB Expense Arising from the Recognition of the Effects of Changes of Assumptions

Fiscal Year	Change of assumptions	Recognition period (years)	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
2018	\$ (248,102)	7.44	\$ (33,347)	\$ (33,347)	\$ (33,347)	\$ (33,347)	\$ (33,347)	\$ (33,347)	\$ (33,347)	\$ (14,673)	\$ -	\$ -
2019	\$ (2,381,294)	6.67		\$ (357,016)	\$ (357,016)	\$ (357,016)	\$ (357,016)	\$ (357,016)	\$ (357,016)	\$ (239,200)	\$ -	\$ -
Net increase (decrease) in OPEB expense			\$ (66,694)	\$ (390,363)	\$ (390,363)	\$ (390,363)	\$ (390,363)	\$ (390,363)	\$ (390,363)	\$ (253,873)	\$ -	\$ -

Increase/ (Decrease) in OPEB Expense Arising from the Recognition of Differences between Expected and Actual Earnings on OPEB Plan Investments

Fiscal Year	Differences between projected and actual earnings on OPEB plan investments	Recognition period (years)	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
2018	\$ (129,411)	5	\$ (25,882)	\$ (25,882)	\$ (25,882)	\$ (25,882)	\$ (25,882)	\$ -	\$ -	\$ -	\$ -	\$ -
2019	\$ (12,480)	5		\$ (2,496)	\$ (2,496)	\$ (2,496)	\$ (2,496)	\$ (2,496)	\$ -	\$ -	\$ -	\$ -
Net increase (decrease) in OPEB expense			\$ (25,882)	\$ (28,378)	\$ (28,378)	\$ (28,378)	\$ (28,378)	\$ (2,496)	\$ -	\$ -	\$ -	\$ -

Deferred Outflows and Deferred Inflows of Resources Arising from Gains and Losses

Deferred Outflows and Deferred Inflows of Resources Arising from Differences between Expected and Actual Experience

				BALANCES AT JUNE 30, 2019	
Fiscal Year	Experience Losses (a)	Experience Gains (b)	Amounts Recognized in OPEB Expense through June 30, 2019 (c)	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2018	\$ -	\$ -	\$ -	\$ -	\$ -
2019	\$ -	\$ (5,360,645)	\$ (803,695)	\$ -	\$ (4,556,950)
TOTAL				\$ -	\$ (4,556,950)

Deferred Outflows and Deferred Inflows of Resources Arising from Changes of Assumptions

				BALANCES AT JUNE 30, 2019	
Fiscal Year	Increases in the Total OPEB Liability (a)	Decreases in the Total OPEB Liability (b)	Amounts Recognized in OPEB Expense through June 30, 2019 (c)	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2018	\$ -	\$ (248,102)	\$ (66,694)	\$ -	\$ (181,408)
2019	\$ -	\$ (2,381,294)	\$ (357,016)	\$ -	\$ (2,024,278)
TOTAL				\$ -	\$ (2,205,686)

Deferred Outflows and Deferred Inflows of Resources
 Arising from Differences between Expected and Actual Earnings on OPEB Plan Investments

				BALANCES AT JUNE 30, 2019	
Fiscal Year	Investment Earnings Less than Projected (a)	Investment Earnings More than Projected (b)	Amounts Recognized in OPEB Expense through June 30, 2019 (c)	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2018	\$ -	\$ (129,411)	\$ (51,764)	\$ -	\$ (77,646)
2019	\$ -	\$ (12,480)	\$ (2,496)	\$ -	\$ (9,984)
TOTAL				\$ -	\$ (87,630)
NET TOTAL					\$ (87,630)

SECTION II - ACTUARIAL VALUATION DETAILS

Population Data

A. DISTRIBUTION BY AGE: RETIREES, BENEFICIARIES, AND SURVIVORS (Includes retirees with life only)

Age	Total
0-19	0
20-24	0
25-29	0
30-34	0
35-39	0
40-44	0
45-49	0
50-54	1
55-59	7
60-64	20
65-69	83
70-74	107
75-79	61
80-84	28
85-89	18
90-94	13
95-99	2
100+	0
TOTAL	340

Includes retirees who are eligible for medical or with life coverage in addition to terminated vesteds, beneficiaries, and survivors with medical coverage.

B. ACTIVE PARTICIPANTS

OF PARTICIPANTS*

Current Plan	Mandatory Medicare Eligible	Pre-Mandatory Medicare Eligible	Total
No Medical/ Unknown	246	0	246
Indemnity	0	0	0
Managed Care	256	8	264
TOTAL	502	8	510

* "Pre-Mandatory Medicare eligible" means hired March 31, 1986 or before. "Mandatory Medicare eligible" means hired after March 31, 1986. Employees hired March 31, 1986 or before do not contribute to Medicare.

C. PLAN DEFINITION TABLE⁽¹⁾

Name of Plan	Type of Plan	Ind Rate	Retirees Enrolled	Fam Rate	Retirees Enrolled	EE Cont %
HMO Blue New England Options	Commercial Managed Care	\$897.39	17	\$2,334.45	3	50.00%
Blue Care Elect Preferred	Commercial Managed Care	\$906.58	11	\$2,359.24	3	50.00%
Tufts Medicare Preferred	Medicare Managed Care	\$317.00	5	NA	NA	50.00%
Medex 2	Medicare Indemnity	\$335.38	265	NA	NA	50.00%
Life Insurance	Life Insurance	\$6.20	135	NA	NA	50.00%

⁽¹⁾ Rates at 01/01/2019. Only plans with retiree enrollment shown.

C. DISTRIBUTION BY AGE AND SERVICE: ACTIVE PARTICIPANTS

Age Group	0-4	5-9	10-15	15-19	20-24	25-29	30-34	35-39	40+	Total
0-19	0	0	0	0	0	0	0	0	0	0
20-24	8	0	0	0	0	0	0	0	0	8
25-29	45	4	0	0	0	0	0	0	0	49
30-34	30	15	8	1	0	0	0	0	0	54
35-39	26	12	18	4	1	0	0	0	0	61
40-44	17	10	13	13	1	0	0	0	0	54
45-49	27	18	13	11	14	2	0	0	0	85
50-54	27	8	11	5	7	7	1	0	0	66
55-59	13	9	22	10	2	4	3	1	0	64
60-64	5	6	4	15	10	2	1	1	1	45
65-69	2	1	3	3	2	1	2	1	0	15
70-74	0	1	1	1	0	2	1	0	1	7
75-79	0	0	0	0	1	0	1	0	0	2
80-84	0	0	0	0	0	0	0	0	0	0
85-89	0	0	0	0	0	0	0	0	0	0
90-94	0	0	0	0	0	0	0	0	0	0
95-99	0	0	0	0	0	0	0	0	0	0
100+	0	0	0	0	0	0	0	0	0	0
TOTAL	200	84	93	63	38	18	9	3	2	510

SECTION III – APPENDICES

Actuarial methods and assumptions were selected by the Town of Medfield, other than those required by statute or by GASB statements, with guidance from Stone Consulting, Inc.

Actuarial Methods

Actuarial Cost Method

Costs are attributed between past and future service using the Entry Age Normal cost method. For attribution purposes, benefits are assumed to accrue over all employee service until decrement.

Asset Valuation Method

Market value of assets with payables and receivables.

Actuarial Assumptions

Valuation Date

January 1, 2019

Interest Rate / Discount Rate

- 5.94% per year net of investment expenses as of 06/30/2019. In the calculation of the discount rate, the 20-year Municipal General Obligation bonds as shown in the Bond Buyer 20 Bond Index (3.50%) was used.
- 5.47% per year as of 07/01/2018.

Mortality

- **Actives:** The RP-2014 Mortality Tables adjusted to 2006, sex-distinct, for Employees projected using generational mortality and scale MP-2016.
- **Retirees:** The RP-2014 Mortality Tables adjusted to 2006, sex-distinct, for Healthy Annuitants projected using generational mortality and scale MP-2016.
- **Disabled:** The RP-2014 Mortality Tables adjusted to 2006, sex-distinct, for Healthy Annuitants projected using generational mortality and scale MP-2016. Set forward 2 years.

Prior mortality was the RP-2000 Mortality Tables, sex-distinct, for Employees projected using generational mortality.

No additional mortality projection is assumed other than as described above.

Actuarial Assumptions (Continued)

Salary Scale

- Groups 1, 2, 4 – increases by years of service 5.50%, 5.50%, 5.00%, 4.50%, 4.50%, 4.00%, 3.50%

Service	Increase
0	5.50%
1	5.50%
2	5.00%
3	4.50%
4	4.50%
5	4.00%
6+	3.50%

- Teachers – Increases are based on service as shown below.

Service	Teachers
0	7.50%
1	7.10%
2	7.00%
3	6.90%
4	6.80%
5	6.70%
6	6.60%
7	6.50%
8	6.30%
9	6.10%
10	5.90%
11	5.70%
12	5.20%
13	4.70%
14	4.35%
15-16	4.20%
17-19	4.10%
20+	4.00%

Overall payroll increase rate, including new entrants of 3.80% per year and 2.80% CPI-U.

Eligibility for Vested Post-Retirement Medical Benefits upon Withdrawal

10 years of Service; assumed that individuals who withdraw prior to age 40 will elect a return of pension contributions and therefore be ineligible for retiree medical coverage.

Actuarial Assumptions (Continued)

Withdrawal Prior to Retirement, Non-Teachers

Based on years of service. Same for both pre- and post-April 1, 2012 (Tier 1 and Tier 2) hires.

Years of Service	Groups 1,2	Group 4
0	15.00%	1.50%
1	12.00%	1.50%
2	10.00%	1.50%
3	9.00%	1.50%
4	8.00%	1.50%
5	7.60%	1.50%
6	7.50%	1.50%
7	6.70%	1.50%
8	6.30%	1.50%
9	5.90%	1.50%
10	5.40%	1.50%
11	5.00%	0.00%
12	4.60%	0.00%
13	4.10%	0.00%
14	3.70%	0.00%
15	3.30%	0.00%
16	2.00%	0.00%
17	2.00%	0.00%
18	2.00%	0.00%
19	2.00%	0.00%
20	2.00%	0.00%
21	1.00%	0.00%
22	1.00%	0.00%
23	1.00%	0.00%
24	1.00%	0.00%
25	1.00%	0.00%
26	1.00%	0.00%
27	1.00%	0.00%
28	1.00%	0.00%
29	1.00%	0.00%
30+	0.00%	0.00%

Actuarial Assumptions (Continued)

Withdrawal Prior to Retirement, Teachers

Same for both pre and post-April 1, 2012 hires.

		Service			
		Age	0	5	10
Male Teachers	25	12.00%	4.50%	1.00%	
	35	11.00	5.00	1.50	
	45	9.50	5.00	2.00	
	55	7.50	4.50	2.50	
Female Teachers	25	10.00%	9.00%	5.00%	
	35	12.00	8.40	4.10	
	45	8.90	4.70	2.40	
	55	8.00	3.20	2.00	

Disability Prior to Retirement

The rates shown at the following sample ages illustrate the assumption regarding the incidence of disability. Disability is assumed to be 55% ordinary and 45% accidental for Groups 1 and 2, 10% ordinary and 90% accidental for Group 4, and 55% ordinary and 45% accidental for Teachers.

Rate of Disability			
Age	Groups 1 and 2	Group 4	Teachers
20	0.01%	0.10%	0.004%
25	0.02%	0.20%	0.005%
30	0.03%	0.30%	0.006%
35	0.06%	0.30%	0.006%
40	0.10%	0.30%	0.010%
45	0.15%	1.00%	0.030%
50	0.19%	1.25%	0.050%
55	0.24%	1.20%	0.080%
60	0.28%	0.85%	0.100%

Medicare Eligibility

- **Employees:** 100% if hired March 31, 1986 or after; 85% if hired pre-March 31, 1986.
- **Spouses:** 100%

Actuarial Assumptions (Continued)

Rates of Retirement, Non-Teachers

Based on gender, group, and hire date.

Age	Hired Pre-April 2, 2012			Hired Post-April 1, 2012		
	Groups 1 and 2 Male	Groups 1 and 2 Female	Group 4	Groups 1 and 2 Male	Groups 1 and 2 Female	Group 4
50	1.00%	1.50%	2.00%	-	-	-
51	1.00%	1.50%	2.00%	-	-	-
52	1.00%	2.00%	2.00%	-	-	-
53	1.00%	2.50%	5.00%	-	-	-
54	2.00%	2.50%	7.50%	-	-	-
55	2.00%	5.50%	15.00%	-	-	10.00%
56	2.50%	6.50%	10.00%	-	-	7.00%
57	2.50%	6.50%	10.00%	-	-	20.00%
58	5.00%	6.50%	10.00%	-	-	10.00%
59	6.50%	6.50%	15.00%	-	-	15.00%
60	12.00%	5.00%	20.00%	25.00%	30.00%	20.00%
61	20.00%	13.00%	20.00%	20.00%	13.00%	20.00%
62	30.00%	15.00%	25.00%	30.00%	15.00%	25.00%
63	25.00%	12.50%	25.00%	25.00%	12.50%	25.00%
64	22.00%	18.00%	30.00%	22.00%	18.00%	30.00%
65	40.00%	15.00%	100.00%	40.00%	15.00%	100.00%
66	25.00%	20.00%	NA	25.00%	20.00%	NA
67	25.00%	20.00%	NA	25.00%	20.00%	NA
68	30.00%	25.00%	NA	30.00%	25.00%	NA
69	30.00%	20.00%	NA	30.00%	20.00%	NA
70	100.00%	100.00%	NA	100.00%	100.00%	NA

Actuarial Assumptions (Continued)

Rates of Retirement, Teachers

Based on gender, years of service, and hire date.

Age	Hired Pre-April 2, 2102						Hired Post-April 1, 2012					
	<20 years service		20-29 years service		>29 years service		<20 years service		20-29 years service		>29 years service	
	M	F	M	F	M	F	M	F	M	F	M	F
50	N/A	N/A	1%	1.5%	2%	2%	N/A	N/A	N/A	N/A	N/A	N/A
51	N/A	N/A	1	1.5	2	2	N/A	N/A	N/A	N/A	N/A	N/A
52	N/A	N/A	1	1.5	2	2	N/A	N/A	N/A	N/A	N/A	N/A
53	N/A	N/A	1	1.5	2	2	N/A	N/A	N/A	N/A	N/A	N/A
54	N/A	N/A	1	1.5	2	2	N/A	N/A	N/A	N/A	N/A	N/A
55	3%	2%	3	3	6	6	3%	0%	0%	0%	0%	0%
56	8	2	5	3	20	15	8	0	0	0	0	0
57	15	8	8	7	35	30	15	0	0	0	0	0
58	15	10	10	7	50	35	15	0	0	0	0	0
59	20	15	20	11	50	35	20	0	0	0	0	0
60	15	20	20	16	50	35	25	25	35	23	45	45
61	30	20	25	20	50	35	35	30	35	30	45	45
62	20	25	30	30	40	40	30	25	30	25	45	45
63	30	24	30	30	40	30	35	25	30	25	45	45
64	40	20	30	30	40	35	40	30	35	30	45	45
65	40	30	40	30	50	35	40	30	35	30	45	45
66	40	30	30	30	50	35	40	30	40	30	45	45
67	40	30	30	30	50	30	50	35	45	35	55	45
68	40	30	30	30	50	30	50	35	45	35	55	45
69	40	30	30	30	50	30	55	35	45	35	55	45
70	100	100	100	100	100	100	100	100	100	100	100	100

Actuarial Assumptions (Continued)

Plan Enrollment Rates

These are the rates which retirees select medical plans, given that they enroll in a medical plan. The selection patterns follow the table below.

Participant Behavior at Key Ages

Status	Age	Pre-65 Retirement	65+ Retirement
Active	Under 65	Commercial Managed Care: 100% Commercial Indemnity: 0%	Medicare Managed Care: 2% Medicare Indemnity: 97% Commercial Managed Care: <1%
Active	65+	NA	Medicare Managed Care: 2% Medicare Indemnity: 97% Commercial Managed Care: <1%
Retired	Under 65	Current Plan	Medicare Managed Care: 2% Medicare Indemnity: 97% Commercial Managed Care: <1% Or Actual Plan if already in Medicare
Retired	65+	NA	Current Plan

Sample Claim Costs

Age	Commercial Managed Care Individual	Commercial Managed Care Blended ⁽¹⁾	Commercial Indemnity Individual	Commercial Indemnity Blended ⁽¹⁾	Medicare Managed Care	Medicare Indemnity
55	\$11,756.45	\$18,882.52	NA	NA	\$2,047.29	\$3,493.73
60	\$14,437.01	\$23,203.37	NA	NA	\$2,047.29	\$3,493.73
65	\$18,094.44	\$22,808.89	NA	NA	\$2,047.29	\$3,493.73
70	\$21,847.91	\$27,540.34	NA	NA	\$2,396.71	\$3,875.30
75	\$26,122.59	\$32,928.98	NA	NA	\$2,897.71	\$4,190.09
80	\$31,096.42	\$39,198.74	NA	NA	\$3,459.36	\$4,417.83
85	\$31,096.42	\$39,198.74	NA	NA	\$4,081.64	\$4,548.84

⁽¹⁾ Blended rates below 65 are 35% Family and 65% Individual. Blended rates 65 and higher are 15% Family and 85% Individual. The prior year assumption was 52.5% Family pre-65 and 20% Family post-65. Individual rates are used for all participants 81 and higher.

Actuarial Assumptions (Continued)

Trend Rates by Plan

Year	Commercial Managed Care	Medicare Indemnity	Medicare Managed Care
2019	-2.30%	8.50%	7.50%
2020	8.00%	8.00%	7.00%
2021	7.50%	7.50%	6.50%
2022	7.00%	7.00%	6.00%
2023	6.50%	6.50%	5.50%
2024	6.00%	6.00%	5.00%
2025	5.50%	6.00%	5.00%
2026	5.00%	6.00%	5.00%
2027	5.00%	6.00%	5.00%
2028	5.00%	6.00%	5.00%
2029	5.00%	5.75%	5.00%
2030	5.00%	5.75%	5.00%
2031	5.00%	5.75%	5.00%
2032	5.00%	5.50%	5.00%
2033	5.00%	5.50%	5.00%
2034	5.00%	5.50%	5.00%
2035	5.00%	5.25%	5.00%
2036	5.00%	5.25%	5.00%
2037	5.00%	5.00%	5.00%
2038	5.00%	5.00%	5.00%
2039	5.00%	5.00%	5.00%
2040	5.00%	5.00%	5.00%
2041	5.00%	5.00%	5.00%
2042	5.00%	5.00%	5.00%
2043	5.00%	5.00%	5.00%
2044	5.00%	5.00%	5.00%
2045	5.00%	5.00%	5.00%
2046	5.00%	5.00%	5.00%

Expenses

Administrative expenses are assumed to increase at 5% per annum.

Actuarial Assumptions (Continued)

Participation Rates

Current retirees and spouses are assumed to continue the same coverage they have as of the valuation date. No future election of coverage is assumed for those retirees and spouses who currently have not elected coverage.

Medical All Retirees: 67.5% of the active Town of Medfield employees eligible for post-employment medical benefits are assumed to elect Medical Coverage immediately upon retirement.

Life All Retirees: 60% of active Town of Medfield employees eligible for post-employment medical benefits are assumed to elect Life Insurance coverage immediately upon retirement.

For all Retirees: For the Town of Medfield plans 60% of spouses are assumed to participate.

Participants with no or unknown current coverage (e.g. active employees who do not currently participate in the Town of Medfield's medical plans) are assumed to elect retiree coverage at the same rates as currently covered active employees. Medicare-eligible retirees currently under age 65 are assumed to elect a Medicare plan option at age 65.

PPACA

OPEB liabilities as of June 30, 2019 include an estimate of the impact from the Patient Protection and Affordable Care Act (PPACA) as it is written as of the valuation date, including the so-called "Cadillac Tax" on high-cost health plans. The Cadillac Tax on plans whose richness exceeds set levels will begin in 2022 and the valuation reflects such implementation beginning in 2022. Prior to this time, the law may be amended or changes may be made in the benefit plan such that the law will not be applicable.

Principal Plan Provisions Recognized in Valuation

ELIGIBILITY FOR BENEFITS

Current retirees, beneficiaries and spouses of the Town of Medfield are eligible for medical benefits, as are current employees or spouses who retire with a benefit from the Town of Medfield. Survivors of Town of Medfield employees and retirees are also eligible for medical benefits.

MEDICAL BENEFITS

Various medical plans offered by the Town of Medfield to its own employees.

LIFE INSURANCE

Town of Medfield retirees are eligible for a \$5,000 life insurance benefit offered by the Town of Medfield. Retirees pay 50% of the \$6.20 cost.

RETIREE CONTRIBUTIONS

Based on data provided by the Town of Medfield.

Glossary

- **Actuarial Accrued Liability:** The portion, as determined by a particular Actuarial Cost Method, of the present value of benefits which is not provided for by future Normal Costs.
- **Actuarial Assumptions:** Assumptions as to the occurrence of future events affecting Other Post-employment Benefits such as: mortality rates, disability rates, withdrawal rates, and retirement rates, the discount assumption, and the trend rates.
- **Actuarial Cost Method:** A procedure for determining the Actuarial Present Value of Total Projected benefits and for developing an actuarially equivalent allocation of such value to time periods, usually in the form of a Normal and an Actuarial Accrued Liability.
- **Amortization Payment:** The portion of the OPEB contribution designed to pay interest and to amortize the Unfunded Actuarial Accrued Liability.
- **Actuarially Determined Contribution (ADC):** The employer's periodic contributions to a defined benefit OPEB plan, calculated in accordance with the Actuarial Standards of Practice.

- **Cadillac Tax:** Under the Affordable Care Act and starting in 2022, a 40% excise tax on the value of employer-sponsored health benefits exceeding specified thresholds.
- **Commercial Plans:** Plans designed to cover the medical expenses of those not otherwise covered by Medicare.
- **GASB:** The Governmental Accounting Standards Board is the organization that establishes financial reporting standards for state and local governments.
- **Investment return Assumptions (Discount Rate):** The rate used to adjust a series of future benefit payments to reflect the time value of money.
- **Healthcare Cost Trend Rate:** The rate of change in per capita health claims costs over time as a result of factors such as medical inflation, utilization of healthcare services, the intensity of the delivery of services, technological developments, and cost-shifting.
- **Medicare Plans:** Medical plans sold to those over 65 who are also covered by Medicare. These plans are supplemental to the Medicare plan, which is considered primary.
- **Normal Cost:** The portion of the Actuarial Present value of plan benefits that is allocated to a valuation year by the Actuarial Cost Method.
- **OPEB:** Other Post-Employment Benefits, other than pensions. This does not include plans such as severance plans or sick-time buyouts.
- **Pay-As-You-Go:** The amount of benefits (claims) paid out to plan participants during the year.
- **Per Capita Claims Cost:** The current average annual cost of providing postretirement health care benefits per individual.
- **Unfunded Actuarial Accrued Liability:** The portion of the Actuarial Accrued Liability that is not covered by plan assets. For a plan that is completely unfunded, this amount is equivalent to the Actuarial Accrued Liability.
- **Valuation Date:** The point from which all future plan experience is projected and as of which all present values are calculated.