

GASB Statements No. 74 and 75
Report for Fiscal Year 2021

Town of Medfield

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October 21, 2021

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 No. 75, Stone Consulting, Inc. has prepared a set of illustrative tables and other Required Supplementary Information (RSI) based on the January 1, 2021 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, 2021, and an OPEB plan Fiscal Year-end of June 30, 2021. For GASB 75, the results are as of a valuation date of January 1, 2021, a measurement date of June 30, 2021, and a reporting date of June 30, 2021. 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.



Joan H. Moreau, ASA
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, 2021. Participant census data as of January 1, 2021 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, 2021, the OPEB plan’s Fiscal Year-end (GASB 74) and the measurement date (GASB 75).

The key results as of June 30, 2021 were:

Total OPEB Liability	\$ 32,179,607
Plan Fiduciary Net Position	<u>5,674,059</u>
Net OPEB Liability	\$ 26,505,548

- “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 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 2021 Fiscal Year, June 30, 2021.
- “Net OPEB Liability” is the difference between the above two figures and is the amount of the future liability not funded as of the measurement 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.

Service Cost

Service Cost for Plan Year 2021	\$ 1,057,821
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Service Cost is the cost of benefits accruing in each year. This figure is based on an interest rate of 7.25% and the Entry Age Normal Cost Method. Because the Service Cost used for Plan Year 2021 is a beginning-of-year number, it is calculated using the discount rate, assumptions, and participant data used in the prior GASB 74/75 report. Changes due to assumptions and experience are then calculated at the end of the measurement period.

Discount Rate at June 30, 2021

Results at June 30, 2021 use a discount rate of 7.10%. The 7.10% is based on an assessment of the Town of Medfield OPEB Trust's investment strategy and should be thought of as a blend of the expected long-term rate of return on Trust assets and the municipal bond rate. The rate is determined based on a projection of future cash flows and assumes that the Town of Medfield makes additional monthly cash contributions of \$38,958 per month (\$467,500 annual) in Fiscal Year 2022, increasing by 10% per year thereafter. Should the future contribution amount schedule decrease significantly or the target asset allocation change, the valuation discount rate would likely change. A brief analysis of contribution sensitivity is included on page 6 of this report.

The 7.10% long-term rate of return used at June 30, 2021 was selected by the Town of Medfield with guidance from Stone Consulting, Inc. The long-term rate of return used for Fiscal Year 2020 was 7.25%.

Funding

Valuations performed for GASB 74/75 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 (the cost of benefits accruing in each year) for the year plus an amount to amortize the unfunded liability over a period of time using a particular pattern (level, increasing, etc.). This would be done at a discount rate closer to the expected net long-term rate of return of 7.10%.

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.

GASB Statement No. 74 – Net OPEB Liability

The components of the Net OPEB Liability for the Town of Medfield OPEB Trust as of an OPEB plan Fiscal Year-end of June 30, 2021 were as follows:

	FY 2021	FY 2020
Total OPEB Liability		
Service Cost	\$ 1,057,821	\$ 1,467,327
Interest	2,685,902	2,358,216
Changes in Benefit Terms	0	0
Differences between expected and actual experience	(7,383,628)	0
Changes of assumptions	505,522	(4,702,807)
Benefit payments	(1,350,223)	(1,385,050)
Net change in Total OPEB liability	\$ (4,484,606)	\$ (2,261,593)
Total OPEB Liability – beginning (7.25%)	36,664,212	38,925,805
Total OPEB Liability – ending (7.10%) (a)	\$ 32,179,607	\$ 36,664,212
Plan Fiduciary Net Position		
Contributions – employer*	\$ 1,775,223	\$ 1,810,050
Net Investment Income	1,276,592	76,500
Benefit payments	(1,350,223)	(1,385,050)
Administrative expenses	0	0
Net change in Plan Fiduciary Net Position	\$ 1,701,592	\$ 501,500
Plan Fiduciary Net Position – beginning	3,972,467	3,470,967
Plan Fiduciary Net Position – ending (b)	\$ 5,674,059	\$ 3,972,467
Net OPEB Liability – ending (a) – (b)	\$ 26,505,548	\$ 32,691,745
Plan Fiduciary Net Position as a percentage of Total OPEB Liability	17.6%	10.8%

*Employer contribution of \$1,350,223 of Pay-As-You-Go and a \$425,000 cash contribution for FY2021.

Update procedures were used to roll the Total OPEB Liability from the valuation date (01/01/2021) to the OPEB plan's Fiscal Year-end (06/30/2021). [GASB Statement No. 74, Paragraph 35(c)]

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

Changes from Prior Report

1. The assumption change of \$505,522 is broken into
 - a. An increase of \$555,119 due to the change in the long-term rate of return from 7.25% to 7.10%.
 - b. An increase of \$665,234 due to a change in the mortality assumption.
 - The base mortality table has been changed from the RP-2014 Mortality Tables to the Pub-2010 Public Retirement Plans Mortality Tables (general employees, safety employees, and teachers).
 - The scale used to project mortality generationally was changed from MP-2016 to MP-2020, the most recent scale published by the Society of Actuaries.
 - Mortality tables may be weighted by amount or by headcount. The amount-weighted tables are appropriate when the amount of the benefit is correlated to mortality (for example, pension benefits, where higher benefits often correlate to longevity). This valuation uses headcount-weighting since we believe headcount-weighting to be more appropriate for the measurement of OPEB plan obligations.
 - c. A decrease of \$618,282 due to a change in medical participation from 67.5% to 65%.
 - d. A decrease of \$96,549 due to changes in the medical trend assumption. Trend assumptions are based on the Society of Actuaries' Getzen model of medical inflation but have been modified by Stone Consulting to account for the cost-shifting which happens from Medicare to commercial plans and from managed care to indemnity plans. The point at which this cost-shifting ends is reached sooner in the new trend assumptions.

2. Differences between expected and actual experience of \$(7,383,628) is broken into
 - a. An 11% decrease in liabilities due to changes in claims and trends. Premiums had been expected to go up 10-15% from the prior valuation; instead, they remained relatively flat.
 - b. A 5% decrease in liabilities due to changes in spousal and family coverage.
 - c. A 4% decrease in liabilities due to population changes which shifted age-graded claims to younger (active employee) ages and reduced the related retiree claims.

Distribution of the Member Population

Town of Medfield OPEB Trust – Membership as of June 30, 2021

	2021	2020
Retired, Disabled, Survivors and Beneficiaries receiving benefits	244	253
Inactive plan members entitled to but not yet receiving benefit payments *	6	5
Active plan members	592	513
Total	842	817

These numbers are based on the data supplied by the Town of Medfield as of June 30, 2021. Note that these membership numbers count a retiree and a spouse as only one member, even if they have separate policies.

* The number of inactive plan members was not available from the MTRS as of June 30, 2021. The inactive count shown here represents inactives for the Town of Medfield only. MTRS inactive data is unavailable, but we believe it is immaterial.

Development of Exhibits

DISCOUNT RATE

Total OPEB Liability as of the plan's Fiscal Year-end (June 30, 2021) is calculated using a discount rate assumption of 7.10%. To calculate this rate, Stone Consulting has conducted a cash flow study of the Trust assets and liabilities. Using a rate consistent with the Trust's investment strategy (7.10%), 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 OPEB Trust, there is no depletion point. The present value of OPEB benefits is then calculated using a rate consistent with the Trust's investment strategy (7.10%) before the depletion point and a rate based on 20-year Municipal General Obligation bonds as shown in the Bond Buyer 20 Bond Index (2.16% as of June 30, 2021) after the depletion point. Finally, a single rate producing an equivalent present value of benefits is calculated. This is the 7.10% rate we have used for the Town of Medfield (GASB 75) and the Town of Medfield OPEB Trust (GASB 74). 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 and the pay-as-you-go funding of the retirees. 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 actives and inactive employees.

As of June 30, 2021, the Town of Medfield's Fiduciary Net Position was projected to be available to make all future benefit payments of current active and inactive employees per the methodology contained in GASB 75. Thus, the long-term expected rate of return on investments was applied for all benefit periods when calculating the Net OPEB Liability.

The long-term rate of return which was used to develop the discount rate of 7.10% 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.

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 2021 Fiscal Year, and is shown below:

Fiscal Year	2021
Money-Weighted Rate of Return	29.29%

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

Discount Sensitivity

The following presents Town of Medfield OPEB Trust’s Net OPEB Liability calculated at the valuation discount rate of 7.10%, as well as at discount rates one percent higher (8.10%) and one percent lower (6.10%).

OPEB Plan Fiscal Year-End	1% Decrease (6.10%)	Current Discount Rate (7.10%)	1% Increase (8.10%)
06/30/2021	\$ 30,638,623	\$ 26,505,548	\$ 23,077,425

Sensitivity of Current Valuation to Funding Level

To give Town of Medfield and the OPEB Trust 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 assuming the Town of Medfield makes contributions of \$467,500 in FY22 and \$500,000 in FY23, increasing by 5% thereafter. Under this scenario, the Town could continue to report liabilities at the long-term rate of return of 7.10%, and contributions would need to be made to the Trust for at least 17 years. Under the current funding policy (\$467,500 in FY22, increasing annually at 10% thereafter), contributions need to continue for at least 13 years in order to use the long-term rate of return. If the Town ceases making contributions to the OPEB trust, the discount rate employed would be lowered by 410 basis points from 7.10% to 3.00%.

Lower returns than 7.10% per annum will increase the number of years the Town of Medfield needs to contribute in order to use the fully funded discount rate for GASB 74 and 75. We have not calculated liabilities at the 3.00% rate; however, as required by GASB 74 and shown on page 6 of this report, a 6.10% discount rate increases the Net OPEB Liability from \$26,505,548 to \$30,638,623.

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 in particular, 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
06/30/2021	\$ 22,546,659	\$ 26,505,548	\$ 31,403,245

* Base trend rates are found in Actuarial Assumptions and Methods, page 28.

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 the Massachusetts Pension Reserves Investment Trust (PRIT) 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 their 2.0% inflation assumption.

US Equity	Target Allocation	Long-Term Expected Real Rate of Return (Geometric)
Global Equity	39%	4.6%
Core Fixed Income	15%	0.3%
Value Added Fixed Income	8%	4.1%
Private Equity	14%	8.0%
Real Estate	10%	3.9%
Timberland	4%	4.5%
Portfolio Completion	10%	3.1%

Schedule of Changes in OPEB Trust Net OPEB Liability and Related Ratios – GASB 74

(Amounts in Thousands)

Plan Year-End of June 30,	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
TOTAL OPEB LIABILITY										
Service cost	1,058	1,467	1,574	1,592	1,532					
Interest	2,686	2,358	2,456	2,143	2,034					
Change of benefit terms	0	0	0	0	0					
Differences between expected and actual experience	(7,384)	0	(5,361)	0	0					
Change of assumptions	506	(4,702)	(2,381)	(248)	0					
Benefit payments	(1,350)	(1,385)	(1,394)	(1,466)	(1,408)					
Net change in Total OPEB Liability	(4,485)	(2,262)	(5,105)	2,021	2,159					
Total OPEB Liability - beginning	36,664	38,926	44,031	42,010	39,851					
Total OPEB Liability - ending	32,180	36,664	38,926	44,031	42,010					
PLAN FIDUCIARY NET POSITION										
Contributions - employer	1,775	1,810	1,794	1,866	1,853					
Contributions - employee	0	0	0	0	0					
Net Investment Income	1,277	76	181	251	253					
Benefit payments	(1,350)	(1,385)	(1,394)	(1,466)	(1,408)					
Administrative expense	0	0	0	0	0					
Other	0	0	0	0	0					
Net change in Plan Fiduciary Net Position	1,702	501	581	651	699					
Plan Fiduciary Net Position - beginning	3,972	3,471	2,889	2,238	1,539					
Plan Fiduciary Net Position - end	5,674	3,972	3,471	2,889	2,238					
Town of Medfield Net OPEB Liability – ending	26,506	32,692	34,455	41,142	39,772					
Plan Fiduciary Net Position as a percentage of the Total OPEB Liability	17.6%	10.8%	8.9%	6.6%	5.3%					
Money-Weighted Rate of Return	29.29%	1.99%	5.57%	11.15%	12.77%					

Schedule of Plan Contributions - GASB 74

Plan Year-End of June 30,	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Actuarially Determined Contribution	N/A	N/A	N/A	N/A	4,108					
Contributions in relation to the Actuarially Determined Contribution	N/A	N/A	N/A	N/A	(1,853)					
Contribution deficiency / (excess)	N/A	N/A	N/A	N/A	2,255					

Town of Medfield's plan to fund OPEB is to contribute \$425,000 per year to the OPEB Trust during Fiscal Year 2021, increasing by 10% thereafter.

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 2021.

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* (7/1/2020)	\$3,972,467.00			12	\$ 5,136,195.53
<u>Cash Flows:</u>					
July				11	0.00
August	425,000.00			10	537,863.09
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* (6/30/2021)	\$5,674,058.62			Sum:	\$ 5,674,058.62

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

Return Rate: 29.29%
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Changes in the Net OPEB Liability [GASB 75, Paragraph 55]

	Total OPEB Liability (a)	Plan Fiduciary Net Position (b)	Net OPEB Liability (a) - (b)
Balances at beginning of Measurement Period (07/01/2020)	\$ 36,664,212	\$ 3,972,467	\$ 32,691,745
Changes for the Year:			
Service Cost	1,057,821		1,057,821
Interest	2,685,902		2,685,902
Change in benefit terms	0		0
Differences between expected and actual experience	(7,383,628)		(7,383,628)
Change in assumptions	505,522		505,522
Contributions - employer		1,775,223	(1,775,223)
Contributions - employee		0	0
Net investment income		1,276,592	(1,276,592)
Benefit payments	(1,350,223)	(1,350,223)	0
Administrative expense		0	0
Other changes		0	0
Net Changes	<u>(4,484,606)</u>	<u>1,701,592</u>	<u>(6,186,197)</u>
Balances at end of Measurement Period (06/30/2021)	\$ 32,179,607	\$ 5,674,059	\$ 26,505,548

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 (01/01/2021) to the measurement date (06/30/2021). [GASB Statement No. 75, Paragraph 28]

Plan Fiduciary Net Position as a percentage of Total OPEB Liability	17.6%
Covered Employee Payroll *	\$39,397,841
Net OPEB Liability as a percentage of payroll	67.3%

* Fiscal year 2021 pensionable payroll.

Projection of the Net OPEB Liability

TOTAL OPEB LIABILITY (TOL)

The Total OPEB Liability at the beginning of the measurement period (07/01/2020) is equal to the Actuarial Accrued Liability (AAL) rolled from 01/01/2019. 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 01/01/2021 at a discount rate of 7.10%) are as follows:

Actives	\$ 15,554,164
Retirees, Disabled, Beneficiaries, and Vested Terminated	<u>15,705,576</u>
Total	\$ 31,259,740

The TOL is projected to the end of the measurement period (06/30/2021) 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 Components

Components of Town of Medfield's OPEB Expense for the Fiscal Year ended June 30, 2021 [GASB 75, Paragraph 43] are shown below.

NOTE*	Description	Fiscal 2021	Fiscal 2020
A	Service Cost	\$ 1,057,821	\$ 1,467,327
A, B	Interest	2,685,902	2,358,216
C	Differences between Expected and Actual Experience	(1,662,256)	(803,695)
D	Changes of Assumptions	(1,036,542)	(1,095,323)
D	Changes to Benefit Provisions	0	0
E	Projected Earnings on Plan Investments	(303,410)	(218,798)
F	Differences between Projected and Actual Earnings on Plan Investments	(194,555)	82
A	Administrative Expense	0	0
A	Other Changes in Fiduciary Net Position	0	0
	Total OPEB Expense	\$ 546,960	\$ 1,707,809

* Notes shown on page 14. Amounts are based on the following dates:

- Valuation date: January 1, 2021
- Measurement date: June 30, 2021
- Reporting date: June 30, 2021

CHANGES IN METHODS, ASSUMPTIONS, AND PLAN PROVISIONS

The discount rate was changed from 7.25% to 7.10%.

Mortality was changed from the RP-2014 table, projected using MP-2016, to the Pub-2010 headcount-weighted tables, projected using MP-2020.

The participation assumption was changed from 67.5% to 65%.

Medical trends were updated using the most recent Getzen model.

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	\$ 36,664,212	100%	7.25%	\$ 2,658,155
Service cost	1,057,821	100%	7.25%	76,692
Benefit payments	\$ (1,350,223)	50%	7.25%	(48,946)
Interest				\$ 2,685,902

- 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	\$ 3,972,467	100%	7.25%	\$ 288,004
Employer contributions	1,775,223	50%	7.25%	64,352
Employee contributions	0	50%	7.25%	0
Benefit payments	(1,350,223)	50%	7.25%	(48,946)
Administrative expense	0	50%	7.25%	0
Total projected earnings				\$ 303,410
Actual earnings				1,276,592
Difference between projected and actual earnings				\$ (973,182)

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.

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	\$ (9,474,627)
Changes of assumptions	446,740	(4,717,127)
Net difference between projected and actual earnings on plan investments	0	(724,040)
Total	\$ 446,740	\$ (14,915,794)

Year Ending June 30, *	Recognition
2022	\$ (2,893,353)
2023	(2,867,471)
2024	(2,864,975)
2025	(2,491,725)
2026	(1,272,103)
Thereafter	(2,079,427)

*The years are based on measurement date of June 30, 2021. For GASB 75, the reporting date is the same as the measurement date.

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)	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
2018	\$ -	7.44	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2019	\$ (5,360,645)	6.67	\$ (803,695)	\$ (803,695)	\$ (803,695)	\$ (803,695)	\$ (803,695)	\$ (803,695)	\$ (538,476)	\$ -	\$ -	\$ -	\$ -
2020	\$ -	6.67		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2021	\$ (7,383,628)	8.6			\$ (858,561)	\$ (858,561)	\$ (858,561)	\$ (858,561)	\$ (858,561)	\$ (858,561)	\$ (858,561)	\$ (858,561)	\$ (515,137)
Net increase (decrease) in OPEB expense			\$ (803,695)	\$ (803,695)	\$ (1,662,256)	\$ (1,662,256)	\$ (1,662,256)	\$ (1,662,256)	\$ (1,397,037)	\$ (858,561)	\$ (858,561)	\$ (858,561)	\$ (515,137)

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

Fiscal Year	Change of assumptions	Recognition period (years)	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
2018	\$ (248,102)	7.44	\$ (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)	\$ -	\$ -	\$ -	\$ -
2020	\$ (4,702,087)	6.67		\$ (704,961)	\$ (704,961)	\$ (704,961)	\$ (704,961)	\$ (704,961)	\$ (704,961)	\$ (472,324)	\$ -	\$ -	\$ -
2021	\$ 505,522	8.6			\$ 58,782	\$ 58,782	\$ 58,782	\$ 58,782	\$ 58,782	\$ 58,782	\$ 58,782	\$ 58,782	\$ 35,269
Net increase (decrease) in OPEB expense			\$ (390,363)	\$ (1,095,323)	\$ (1,036,542)	\$ (1,036,542)	\$ (1,036,542)	\$ (1,036,542)	\$ (900,052)	\$ (413,542)	\$ 58,782	\$ 58,782	\$ 35,269

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)	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
2018	\$ (129,411)	5	\$ (25,882)	\$ (25,882)	\$ (25,882)	\$ (25,882)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2019	\$ (12,480)	5	\$ (2,496)	\$ (2,496)	\$ (2,496)	\$ (2,496)	\$ (2,496)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2020	\$ 142,298	5		\$ 28,460	\$ 28,460	\$ 28,460	\$ 28,460	\$ 28,460	\$ -	\$ -	\$ -	\$ -	\$ -
2021	\$ (973,182)	5			\$ (194,636)	\$ (194,636)	\$ (194,636)	\$ (194,636)	\$ (194,636)	\$ -	\$ -	\$ -	\$ -
Net increase (decrease) in OPEB expense			\$ (28,378)	\$ 82	\$ (194,555)	\$ (194,555)	\$ (168,673)	\$ (166,177)	\$ (194,636)	\$ -	\$ -	\$ -	\$ -

The methodology used to calculate Recognition Period has changed. The calculation no longer uses the average expected remaining service generated by the valuation software. Instead, expected remaining service by individual from the valuation software has been totaled and then averaged for all active and inactive employees.

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

Fiscal Year	Experience Losses (a)	Experience Gains (b)	Amounts Recognized in OPEB Expense through June 30, 2021 (c)	BALANCES AT JUNE 30, 2021	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2018	\$ -	\$ -	\$ -	\$ -	\$ -
2019	\$ -	\$ (5,360,645)	\$ (2,411,085)	\$ -	\$ (2,949,560)
2020	\$ -	\$ -	\$ -	\$ -	\$ -
2021	\$ -	\$ (7,383,628)	\$ (858,561)	\$ -	\$ (6,525,067)
TOTAL				\$ -	\$ (9,474,627)

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

Fiscal Year	Increases in the Total OPEB Liability (a)	Decreases in the Total OPEB Liability (b)	Amounts Recognized in OPEB Expense through June 30, 2021 (c)	BALANCES AT JUNE 30, 2021	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2018	\$ -	\$ (248,102)	\$ (133,388)	\$ -	\$ (114,714)
2019	\$ -	\$ (2,381,294)	\$ (1,071,047)	\$ -	\$ (1,310,247)
2020	\$ -	\$ (4,702,087)	\$ (1,409,921)	\$ -	\$ (3,292,166)
2021	\$ 505,522	\$ -	\$ 58,782	\$ 446,740	\$ -
TOTAL				\$ 446,740	\$ (4,717,127)

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

Fiscal Year	Investment Earnings Less than Projected (a)	Investment Earnings More than Projected (b)	Amounts Recognized in OPEB Expense through June 30, 2021 (c)	BALANCES AT JUNE 30, 2021	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2018	\$ -	\$ (129,411)	\$ (103,528)	\$ -	\$ (25,882)
2019	\$ -	\$ (12,480)	\$ (7,488)	\$ -	\$ (4,992)
2020	\$ 142,298	\$ -	\$ 56,919	\$ 85,379	\$ -
2021	\$ -	\$ (973,182)	\$ (194,636)	\$ -	\$ (778,545)
TOTAL				\$ 85,379	\$ (809,419)
			NET TOTAL		\$ (724,040)

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	1
40-44	0
45-49	0
50-54	1
55-59	6
60-64	15
65-69	66
70-74	129
75-79	64
80-84	34
85-89	21
90-94	10
95-99	4
100+	0
TOTAL	351

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	257	0	257
Indemnity	0	0	0
Managed Care	262	5	267
TOTAL	519	5	524

* "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	\$860.99	11	\$2,239.76	4	50.00%
Blue Care Elect Preferred	Commercial Managed Care	\$869.81	13	\$2,263.55	3	50.00%
Medex 2	Medicare Indemnity	\$335.38	281	NA	NA	50.00%
Life Insurance	Life Insurance	\$6.50	147	NA	NA	50.00%

⁽¹⁾ Rates at 01/01/2021. 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	2	0	0	0	0	0	0	0	0	2
20-24	8	0	0	0	0	0	0	0	0	8
25-29	41	5	0	0	0	0	0	0	0	46
30-34	23	30	1	1	0	0	0	0	0	55
35-39	19	15	15	7	0	0	0	0	0	56
40-44	20	10	9	14	4	0	0	0	0	57
45-49	24	17	9	12	9	0	0	0	0	71
50-54	35	26	7	13	5	13	2	0	0	101
55-59	12	10	7	14	6	5	1	3	0	58
60-64	4	4	10	13	8	4	2	0	1	46
65-69	1	3	2	2	6	2	1	0	0	17
70-74	0	0	1	1	0	2	0	0	1	5
75-79	0	1	0	0	0	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	189	121	61	77	38	26	7	3	2	524

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, 2021

Interest Rate / Discount Rate

- 7.10% per year net of investment expenses as of 06/30/2021. In the calculation of the discount rate, the 20-year Municipal General Obligation bonds as shown in the Bond Buyer 20 Bond Index (2.16%) was used.
- 7.25% per year as of 07/01/2020.

Mortality

- **Actives:** The Pub-2010 Headcount-weighted Mortality Tables, sex-distinct, for Employees projected using generational mortality and scale MP-2020; General (Groups 1&2 and Spouses), Safety (Group 4), and Teachers.
- **Retirees:** The Pub-2010 Headcount-weighted Mortality Tables, sex-distinct, for Healthy Retirees projected using generational mortality and scale MP-2020; General (Groups 1&2 and Spouses), Safety (Group 4), and Teachers.
- **Disabled:** The Pub-2010 Headcount-weighted Mortality Tables, sex-distinct, for Healthy Retirees projected using generational mortality and scale MP-2020; General (Groups 1&2 and Spouses), Safety (Group 4), and Teachers. Set forward 2 years.

Actuarial Assumptions (Continued)

The prior year tables were:

- **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.

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

Salary Scale

- **Groups 1, 2, 4** – increases by years of service: 5.50%, 5.50%, 5.00%, 4.50%, 4.50%, 4.00%, and 3.50% thereafter
- **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 of 3.00% per year.

Inflation

- CPI-U of 2.50% per year.

Actuarial Assumptions (Continued)

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.

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		13.00%	5.50%	1.50%
	35		13.30	5.30	1.50
	45		14.00	7.00	2.20
	55		24.60	6.50	2.50
Female Teachers	25		10.00%	7.00%	5.00%
	35		11.00	7.00	3.00
	45		9.80	4.00	2.10
	55		13.80	6.00	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 50% ordinary and 50% 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%	2%	1.5%	N/A	N/A	N/A	N/A	N/A	N/A
51	N/A	N/A	1	1	2	1.5	N/A	N/A	N/A	N/A	N/A	N/A
52	N/A	N/A	1	1	2	1.5	N/A	N/A	N/A	N/A	N/A	N/A
53	N/A	N/A	1.5	1	2	1.5	N/A	N/A	N/A	N/A	N/A	N/A
54	N/A	N/A	2.5	1	2	2	N/A	N/A	N/A	N/A	N/A	N/A
55	5%	3%	3	3	6	5	N/A	N/A	N/A	N/A	N/A	N/A
56	5	3	6	3	20	15	N/A	N/A	N/A	N/A	N/A	N/A
57	5	4	10	8	40	35	N/A	N/A	N/A	N/A	N/A	N/A
58	5	8	15	10	50	35	N/A	N/A	N/A	N/A	N/A	N/A
59	10	8	20	15	50	35	N/A	N/A	N/A	N/A	N/A	N/A
60	10	10	25	20	40	35	10%	10%	25%	20%	40%	35%
61	20	12	30	25	40	35	20	12	30	25	40	35
62	20	12	35	30	35	35	20	12	35	30	35	35
63	25	15	40	30	35	35	25	15	40	30	35	35
64	25	20	40	30	35	35	25	20	40	30	35	35
65	25	25	40	40	35	35	25	25	40	40	35	35
66	30	25	30	30	40	35	30	25	30	30	40	35
67	30	30	30	30	40	30	30	30	30	30	40	30
68	30	30	30	30	40	30	30	30	30	30	40	30
69	30	30	30	30	40	30	30	30	30	30	40	30
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: 0% Medicare Indemnity: 100% Commercial Managed Care: <1%
Active	65+	NA	Medicare Managed Care: 0% Medicare Indemnity: 100% Commercial Managed Care: <1%
Retired	Under 65	Current Plan	Medicare Managed Care: 0% Medicare Indemnity: 100% Commercial Managed Care: <1% Or Actual Plan if already in Medicare
Retired	65+	NA	Current Plan

Sample Claim Costs

Age-graded claim rates are derived using valuation demographics and aging curves from Health Care Costs – From Birth to Death, published by the Society of Actuaries in June, 2013.

Age	Commercial Managed Care Individual	Commercial Managed Care Blended ⁽¹⁾	Commercial Indemnity Individual	Commercial Indemnity Blended ⁽¹⁾	Medicare Managed Care	Medicare Indemnity
55	\$10,836.99	\$19,255.43	NA	NA	NA	\$3,440.86
60	\$13,254.47	\$23,582.67	NA	NA	NA	\$3,440.86
65	\$16,590.70	\$18,030.16	NA	NA	NA	\$3,440.86
70	\$20,029.90	\$21,767.77	NA	NA	NA	\$3,816.81
75	\$23,928.98	\$26,005.25	NA	NA	NA	\$4,126.89
80	\$28,488.37	\$30,960.24	NA	NA	NA	\$4,351.25
85	\$28,488.37	\$30,960.24	NA	NA	NA	\$4,480.48

⁽¹⁾ Blended rates below 65 are 45% Family and 55% Individual. Blended rates 65 and higher are 5% Family and 95% Individual. Individual rates are used for all participants 81 and higher.

Actuarial Assumptions (Continued)

Trend Rates by Plan

Year	New Assumptions		Old Assumptions	
	Commercial Managed Care	Medicare Indemnity	Commercial Managed Care	Medicare Indemnity
2021	-0.60%	8.50%	-0.60%	8.50%
2022	8.00%	8.00%	8.00%	8.00%
2023	7.50%	7.50%	7.50%	7.50%
2024	7.00%	7.00%	7.00%	7.00%
2025	6.70%	6.70%	6.50%	6.50%
2026	6.40%	6.40%	6.00%	6.00%
2027	6.10%	6.10%	5.50%	6.00%
2028	5.80%	5.80%	5.00%	6.00%
2029	5.50%	5.50%	5.00%	6.00%
2030	5.20%	5.20%	5.00%	6.00%
2031	5.20%	5.20%	5.00%	5.75%
2032	5.20%	5.20%	5.00%	5.75%
2033	5.20%	5.20%	5.00%	5.75%
2034	5.20%	5.20%	5.00%	5.50%
2035	5.10%	5.10%	5.00%	5.50%
2036	5.10%	5.10%	5.00%	5.50%
2037	5.10%	5.10%	5.00%	5.25%
2038	5.10%	5.10%	5.00%	5.25%
2039	5.10%	5.10%	5.00%	5.00%
2040+	5.00%	5.00%	5.00%	5.00%

Trend assumptions are based on the Society of Actuaries' Getzen model of medical inflation but have been modified by Stone Consulting to account for the cost-shifting which happens from Medicare to commercial plans and from managed care to indemnity plans.

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: 65% (was 67.5%) of the active Town of Medfield employees eligible for post-employment medical benefits are assumed to elect Medical Coverage immediately upon retirement. 45% of pre-65 retirees and 5% of post-65 retirees are assumed to elect family plans.

Life All Retirees: 55% 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, 47.5% of spouses are assumed to participate in pre-65 plans (including family plans) and 60% of spouses are assumed to participate in post-65 plans.

Participants with no or unknown current coverage (e.g. active employees who do not currently participate in 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, 2021 no longer include an estimate of the impact from the Patient Protection and Affordable Care Act (PPACA), including the so-called "Cadillac Tax" on high-cost health plans, as it has been repealed as of the measurement date. The Cadillac Tax on plans whose richness exceeds set levels was to begin in 2022.

Principal Plan Provisions Recognized in Valuation

ELIGIBILITY FOR BENEFITS

Current retirees, beneficiaries and spouses of 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 Town of Medfield to its own employees.

LIFE INSURANCE

Town of Medfield retirees are eligible for a \$5,000 life insurance benefit offered by Town of Medfield. Retirees pay 50% of the \$6.50 cost.

RETIREE CONTRIBUTIONS

Based on data provided by Town of Medfield.

Glossary

- **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. This has been repealed.
- **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.
- **Net OPEB Liability:** The portion of the Total OPEB Liability that is not covered by plan assets. For a plan that is completely unfunded, this amount is equivalent to the Total OPEB Liability.
- **Normal Cost:** The portion of the Actuarial Present value of plan benefits that is allocated to a valuation year by the Actuarial Cost Method. Referred to as Service Cost in GASB valuations.
- **OPEB:** Other Post-Employment Benefits, other than pensions. This does not include plans such as severance plans or sick-time buyouts.

■ Town of Medfield

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- **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.
- **Service Cost:** The portion of the Actuarial Present value of plan benefits that is allocated to a valuation year by the Actuarial Cost Method. Referred to as Normal Cost in funding valuations.
- **Total OPEB Liability:** The portion, as determined by a particular Actuarial Cost Method, of the present value of benefits which is not provided for by future Service Costs.
- **Valuation Date:** The point from which all future plan experience is projected and as of which all present values are calculated.