

West Coast 1350 E. Flamingo Road, Suite 254 Las Vegas, NV 89119 (702) 979-2880

# Town of Norton Other Postemployment Benefits Plan

# **GASB 75 Actuarial Valuation**

With a Valuation Date of July 1, 2017

As of the Measurement Date: July 1, 2017 As of the Measurement Date: July 1, 2018

For the Reporting Date: June 30, 2018 For the Reporting Date: June 30, 2019

Delivered October 31, 2018



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October 31, 2018

Personal and Confidential

Ms. Catherine VanDyne Treasurer / Collector Town of Norton 70 E. Main Street Norton, MA 02766

Dear Ms. VanDyne:

We have performed an actuarial valuation of the Town of Norton Other Postemployment Benefits Plan for the Reporting Date & fiscal year ending June 30, 2018 with a Measurement Date of July 1, 2017 and a Valuation Date of July 1, 2017. The figures presented in this report reflect the adoption, by the Town of Norton, of Statement Nos. 74 and 75 of the Governmental Accounting Standards Board ("GASB 74/75") effective for the fiscal year ending June 30, 2017 and June 30, 2018 respectively.

The financial results of the actuarial valuation are summarized in the report. The Executive Summaries highlight the results of the valuation. Additional information summarizing census data, actuarial assumptions, claim rates and the methodology for developing them, as well as a glossary of selected terms used in this study, is also included in the report.

All costs, liabilities and other factors under the plan were determined in accordance with generally accepted actuarial principles and procedures. In our opinion, the actuarial assumptions used are reasonable, reflecting the experience of the plan and reasonable expectations and, in combination, represent our best estimate of the anticipated experience under the plan.

We refer you to Section I of this report for a detailed summary and commentary on the results of the valuation and a comparison with the prior valuation. Section II is a summary of the plan provisions, and Section III describes the actuarial cost method and assumptions. Details for cost calculations, supporting data, and disclosures are provided in Exhibits A through C.



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We will be pleased to answer any questions that you may have regarding this actuarial valuation report.

Very truly yours,

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Parker E. Elmore, ASA, EA, FCA, MAAA President, CEO & Actuary



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#### October 31, 2018

### ACTUARIAL CERTIFICATION

This is to certify that Odyssey Advisors has conducted an actuarial valuation of certain benefit obligations of the Town of Norton other postemployment benefit programs with a Valuation Date of July 1, 2017 with a Measurement Date of July 1, 2017 for the Reporting Date & fiscal year ending June 30, 2018 in accordance with generally accepted actuarial principles and practices. The actuarial calculations presented in this report have been made on a basis consistent with our understanding of GASB Statements Numbers 74 & 75 for the determination of the liability for postemployment benefits other than pensions.

The actuarial data is based on the plan of benefits verified by the Town and on participant claims or premium data provided by the Town and/or vendors employed by the Town.

The actuarial computations made are for purposes of fulfilling plan accounting requirements. Determinations for purposes other than meeting financial accounting requirements may yield results significantly different than those reported here. As such, additional determinations may be needed for other purposes including determining the benefit security at termination and/or adequacy of the funding of an ongoing plan.

To the best of our knowledge, this report is complete and accurate and in our opinion represents the information necessary to comply with GASB Statements Number 74 and 75 with respect to the benefit obligations addressed. The signing actuaries are members of the Society of Actuaries, the American Academy of Actuaries and other professional actuarial organizations and meet their "General Qualification Standards for Statements of Actuarial Opinion" to render the actuarial opinion contained herein. Further, in our opinion, the assumptions as approved by the Town are reasonably related to the experience and expectations of the postemployment benefits programs.

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Parker E. Elmore, ASA, EA, FCA, MAAA President, CEO & Actuary



### EXECUTIVE SUMMARY

### GASB 74 and 75 Impact

The Town adopted GASB 74 for the fiscal year ending June 30, 2017 and GASB 75 for the fiscal year ending June 30, 2018. The adoption of GASB 74/75 introduces a new actuarial cost method and discount rate as well as new disclosures and methodologies for reporting plan liabilities and OPEB expenses. Significant changes have been made to the recognition of OPEB expenses, which makes the comparison of Net OPEB Expense in the current valuation to the expenses reported under GASB 45 misleading. The liability reported on the Town's balance sheet is likely to increase dramatically as GASB 74/75 require the recognition of liabilities immediately rather than over a 30 year period as GASB 45 allowed.

### What caused plan liabilities to change from FY 16 to FY 18?

Plan experience was less favorable than expected - for the year ending on the Measurement Date of July 1, 2017, the Plan saw an experience loss of \$3,558,805 or 5.64% of the beginning Total OPEB Liability ("TOL"). This was mainly due to premiums increasing more than the expected 10% increase as well as more employees retiring than expected. The experience loss on TOL and the experience gain on assets are amortized into the net OPEB expense over time until fully recognized.

Over the two year period, the TOL went from \$59,970,409 as of July 1, 2015 to \$69,594,916 as of July 1, 2017 for an increase of \$9,624,507. The Net OPEB Expense was \$3,444,646 for the year ending on the July 1, 2017 Measurement Date. As this is the first year using GASB 75 methodology, there is no baseline for comparison. For a projection of future costs and liabilities refer to Exhibit D.



#### EXECUTIVE SUMMARY (continued)

### Key Drivers of Plan Liabilities

Several key drivers of plan costs and liabilities are:

- ✓ Premiums for Post 65 (Medicare Integrated) plans represent 77% of the total plan liabilities
- ✓ Age at which plan participants retire
- ✓ Percentage of plan participants who elect coverage for themselves and/or a spouse
- ✓ Medical care cost inflation rate We currently assume medical costs increase at 5.0% per year
- ✓ Discount Rate (3.50%) Higher discount rates yield lower liabilities and vice versa
- ✓ Cost Sharing Under Massachusetts law you may charge retirees up to 50% of premiums for health insurance

### What is Implicit Subsidy? How does it impact us?

The implicit subsidy arises because retirees who are not eligible for Medicare are charged the same premium as active employees, even though their actual medical costs are higher on average. Consequently, a portion of the premiums being paid for active employees are being used to "subsidize" the premiums of retirees. Actuarial Standards of Practice and GASB standards require the liability associated with this implicit subsidy to be valued. The chart below shows a breakdown of how implicit cost impacts reported cash flows and liabilities.

Impact of Implicit Subsidy			
As of the Measurement Date			
Impact on Liability	<u>July 1, 2017</u>	<u>July 1, 2015</u>	
I. Actuarial Accrued Liability	69,594,916	59,970,409	
II. Actuarial Accrued Liability (Excluding Implicit Subsidy)	<u>63,576,946</u>	<u>N/A</u>	
III. Liability from Implicit Subsidy [I II.]	6,017,970	N/A	

	For the Measurement Period Ending		
Impact on Payments	<u>July 1, 2017</u>	<u>July 1, 2015</u>	
IV. Employer Payments (Including Implicit Subsidy)	1,759,835	1,764,976	
V. Actual Employer Payments	<u>N/A</u>	<u>N/A</u>	
VI. Implicit Subsidy [IV V.]	N/A	N/A	



# EXECUTIVE SUMMARY

(continued)

### What are some key plan metrics?

While an actuarial valuation under GASB 74/75 can be very complex with many variables, we find it helpful to look at several key metrics shown below to better allow you to manage your plan.

Representative Plan Statistics				
Valuation Date	July 1, 2017	July 1, 2015		
Measurement Date & Period Ending	<b>July 1, 2017</b>	July 1, 2015		
Reporting Date/Fiscal Year End	June 30, 2018	June 30, 2016		
Total OPEB Liability	69,594,916	59,970,409		
Per Eligible Active Plan Participant	73,037	66,564		
Per Retiree/Spouse Plan Participant	90,045	75,862		
Total Annual Service Cost (annual benefit accrual)	2,387,415	2,213,666		
Per Eligible Active Plan Participant	5,426	4,720		
Expected Employer Share of Retiree Costs	1,759,835	1,764,976		
Per Retiree/Spouse Plan Participant	4,230	4,657		
Net OPEB Liability as a % of Payroll	235.70%	255.80%		
Average Annual Medical Plan Premium (Single Coverage)	5,917	5,568		
Average Annual Medical Plan Premium (Family Coverage)	23,448	21,977		
Projected 2022 Excise Tax Thresholds				
Annual Medical Plan Premium (Single Coverage)	12,511			
Annual Medical Plan Premium (Family Coverage)	32,676			



#### EXECUTIVE SUMMARY (continued)

### Liabilities & Benefit Payments in today's dollars

With the growth of medical care costs over time, the nominal accrued liabilities ("TOL") and benefit payments can appear daunting. However, it is important to remember that a dollar paid in the future is worth less than a dollar paid today.

	Number of		Present Value at
	Retirees,		3.00% of Employer
For the Period Ending	Spouses &	Present Value at	Share of Premiums /
on the Measurement	Surviving	3.00% of Total OPEB	Claims including
Date of:	Spouses	Liability	"implicit cost"
July 1, 2017	416	69,594,916	1,759,835
July 1, 2022	422	72,984,167	2,068,777
July 1, 2027	438	76,775,619	2,270,707
July 1, 2032	457	80,477,064	2,615,103
July 1, 2037	461	84,343,655	2,725,632
July 1, 2042	458	89,791,772	2,855,528
July 1, 2047	457	96,694,483	3,017,268

A full projection of plan costs and liabilities in today's dollars is shown in Exhibit D of this report.

### We have an "unfunded liability". How do we fund it? Can we fund it?

If you're looking to fund your OPEB liability, there are a variety of manner to do so. The amount of funding in combination with your Investment Policy will impact the discount rate and disclosed liabilities. Below are a few sample funding options, but it's important to develop a funding policy that fits your organization as each situation is different.

	Current Funding Policy	Alternative Funding Policy - Level Dollar	Alternative Funding Policy - Increasing 3.00% per Year
Net OPEB Liability	\$69,303,304	\$41,997,795	\$41,997,795
Trust Contribution made during Fiscal Year 2019	\$90,000	\$1,675,566	\$1,369,599
Discount Rate*	3.50%	7.00%	7.00%

\*Final discount rate will be chosen based on liabilities and cash flows at each measurement date



### SECTION I

#### PRINCIPAL RESULTS OF THE VALUATION

#### Town of Norton Assuming Funding - 3.50% discount rate Comparison of Plan Liabilities to Prior Valuation

	Valuation Date For the Measurement Period ending on the Measurement Date of: For the Reporting Period & Fiscal Year ending on:	July 1, 2017 July 1, 2017 June 30, 2018	July 1, 2015 July 1, 2015 June 30, 2016
I.	Present Value of Future Benefits		
	A. Actives	58,270,984	59,677,046
	<ul><li>B. Retirees/Disabled</li><li>C. Total</li></ul>	<u>37,458,622</u> 95,729,606	<u>28,751,707</u> 88,428,753
II.	Present Value of Future Normal Cost	26,134,690	28,458,344
III.	Total OPEB Liability (Individual Entry Age Normal)		
	A. Actives	32,136,294	31,218,702
	B. Retirees/Disabled	<u>37,458,622</u>	<u>28,751,707</u>
	C. Total	69,594,916	59,970,409
IV.	Fiduciary Net Position [Plan Assets]	291,612	111,437
V.	Net OPEB Liability (Asset) [III IV.]	69,303,304	59,858,972
VI.	Funded Ratio [IV. / III.]	0.42%	0.19%
VII.	Annual Covered Payroll	29,407,526	23,397,443
VIII.	Net OPEB Liability (Asset) as % of Covered Payroll	235.7%	255.8%
IX.	Number of Eligible Participants		
	A. Actives	440	469
	B. Retirees/Disabled	<u>416</u>	<u>379</u>
	C. Total	856	848
X.	Service Cost	2,387,415	2,213,666
XI.	Interest on Total OPEB Liability (Asset), Service Cost, and Benefit Payments	2,263,117	N/A
XII.	Projected Earnings on OPEB Plan Investments	(15,662)	N/A
XIII.	Net Recognition of Deferred (Inflows)/Outflows	<u>649,611</u>	<u>N/A</u>
XIV.	Financial Statement Expense [X.+XI.+XII.+XIII.]	5,284,481	N/A
XV.	Employer Share of Costs	(1,759,835)	(1,764,976)
XVI.	Employer (Payments)/Withdrawals to/from OPEB Trust	(80,000)	(70,000)
XVII.	Total Employer Contribution [XV. + XVI.]	(1,839,835)	(1,834,976)
XVIII	. Other Changes	<u>0</u>	<u>N/A</u>
XIX.	Net OPEB Expense [XIV.+XVII.+XVIII.]	3,444,646	N/A
XX.	Discount Rate	3.50%	3.50%



#### SECTION I

#### PRINCIPAL RESULTS OF THE VALUATION

#### (continued)

#### Town of Norton Plan Liabilities as of the July 1, 2017 Measurement Date Assuming Funding - 3.50% discount rate

		Medical	<u>Dental</u>	Life	Excise Tax	<u>Total</u>
I.	Present Value of Future Benefits					
	A. Actives	57,551,791	0	86,373	632,820	58,270,984
	B. Retirees/Disabled C. Total	<u>37,173,928</u> 94,725,719	$\frac{0}{0}$	<u>183,184</u> 269,557	<u>101,510</u> 734,330	<u>37,458,622</u> 95,729,606
	C. Iotai	94,723,719	0	209,557	734,330	93,729,000
II.	Present Value of Future Normal Cost	25,714,743	0	29,906	390,041	26,134,690
III.	Total OPEB Liability					
	<ul><li>A. Actives</li><li>B. Retirees/Disabled</li></ul>	31,837,048 37,173,928	0	56,467 183,184	242,779 101,510	32,136,294
	C. Total	<u>57,173,928</u> 69,010,976	$\frac{0}{0}$	<u>183,184</u> 239,651	<u>101,510</u> 344,289	37,458,622 69,594,916
		0,010,770	Ū	200,001	511,207	0,00,00
IV.	Fiduciary Net Position [Plan Assets]	289,165	0	1,004	1,443	291,612
V.	Net OPEB Liability (Asset) [III IV.]	68,721,811	0	238,647	342,846	69,303,304
VI.	Annual Covered Payroll	29,407,526	29,407,526	29,407,526	29,407,526	29,407,526
VII.	Net OPEB Liability (Asset) as % of Covered Payroll	233.7%	0.0%	0.8%	1.2%	235.7%
VIII.	Number of Eligible Participants					
IX.	A. Actives	440	0	440	440	
	B. Retirees/Disabled	416	<u>0</u>	<u>194</u>	416	
	C. Total	856	0	634	856	
	For the Reporting Date and Fiscal Year Ending June 30, 2018					
Х.	Service Cost	2,350,532	0	3,251	33,632	2,387,415
XI.	Interest on Total OPEB Liability (Asset), Service Cost, and Benefit Payments	2,241,519	0	8,372	13,226	2,263,117
XII.	Recognition of Deferred (Inflows)/Outflows from Plan Design Changes	0	0	0	0	0
XIII.	Recognition of Deferred (Inflows)/Outflows from Expected & Actual Experience	645,146	0	2,240	3,218	650,604
XIV.	Recognition of Deferred (Inflows)/Outflows from Changes in Assumptions	0	0	0	0	0
XV.	Projected Earnings on OPEB Plan Investments	(15,531)	0	(54)	(77)	(15,662)
XVI.	Recognition of Deferred (Inflows)/Outflows from Earnings on Investments	<u>(985)</u>	<u>0</u>	<u>(3)</u>	<u>(5)</u>	<u>(993)</u>
XVII	. Financial Statement Expense [X.+XI.+XII.+XIII.+XIV.+XV.+XVI.]	5,220,681	0	13,806	49,994	5,284,481
XVII	I. Employer Share of Costs	(1,753,491)	0	(6,344)	0	(1,759,835)
XIX.	Employer (Payments)/Withdrawals to/from OPEB Trust	(79,331)	0	(272)	(397)	(80,000)
XX.	Total Employer Contribution [XVIII. + XIX.]	(1,832,822)	0	(6,616)	(397)	(1,839,835)
XXI.	Other Changes	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
XXII	. Net OPEB Expense [XVII.+XX.+XXI.]	3,387,859	0	7,190	49,597	3,444,646



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#### SECTION I

### PRINCIPAL RESULTS OF THE VALUATION

## (continued)

Town of Norton Plan Liabilities as of the July 1, 2017 Measurement Date Assuming Funding - 3.50% discount rate

		Town Employees and Retirees	Police Employees and Retirees	Fire Employees and Retirees	Sewer Enterprise Employees and Retirees	Water Enterprise Employees and Retirees	Total
I.	Present Value of Future Benefits A. Actives	41,360,080	7,758,933	7,242,224	378,352	1,531,395	58,270,984
	B. Retirees/Disabled	<u>36,017,897</u>	<u>918,099</u>	7,242,224 <u>0</u>	378,352 0	<u>522,626</u>	37,458,622
	C. Total	77,377,977	8,677,032	7,242,224	378,352	2,054,021	95,729,606
II.	Present Value of Future Normal Cost	18,376,678	3,402,920	3,673,834	174,607	506,651	26,134,690
III.							
	A. Actives B. Retirees/Disabled	22,983,402 36,017,897	4,356,013 918,099	3,568,390 0	203,745 0	1,024,744 522,626	32,136,294 37,458,622
	C. Total	59,001,299	5,274,112	3,568,390	203,745	1,547,370	<u>69,594,916</u>
R/	Etductory Mat Deptring (Diag Access)	247.195	22.102	14.050	859	6.506	291.612
IV.		.,	22,102	14,950		6,506	
V.	Net OPEB Liability (Asset) [III IV.]	58,754,104	5,252,010	3,553,440	202,886	1,540,864	69,303,304
VI	Annual Covered Payroll	23,796,486	2,547,663	2,340,757	183,394	539,226	29,407,526
VI	I. Net OPEB Liability (Asset) as % of Covered Payroll	246.9%	206.2%	151.8%	110.6%	285.8%	235.7%
VI	II. Number of Eligible Participants	359	33	26	3	9	440
	A. Actives B. Retirees/Disabled	411	2 2	36 0	5 0	9 <u>3</u>	440 416
	C. Total	770	35	36	3	12	856
	For the Reporting Date and Fiscal Year Ending June 30, 2018						
IX.	Service Cost	1,769,223	260,758	296,389	22,432	38,613	2,387,415
X.	Interest on Total OPEB Liability (Asset), Service Cost, and Benefit Payments	1,907,193	175,898	122,745	7,175	50,106	2,263,117
XI	Recognition of Deferred (Inflows)/Outflows from Plan Design Changes	0	0	0	0	0	0
XI	I. Recognition of Deferred (Inflows)/Outflows from Expected & Actual Experience	551,570	49,305	33,359	1,905	14,465	650,604
XI	II. Recognition of Deferred (Inflows)/Outflows from Changes in Assumptions	0	0	0	0	0	0
XI	V. Projected Earnings on OPEB Plan Investments	(13,263)	(1,192)	(810)	(47)	(350)	(15,662)
XV	7. Recognition of Deferred (Inflows)/Outflows from Earnings on Investments	(842)	<u>(75)</u>	(51)	(3)	(22)	<u>(993)</u>
XV	I. Financial Statement Expense [IX.+X.+XI.+XII.+XII.+XIV.+XV.]	4,213,881	484,694	451,632	31,462	102,812	5,284,481
XV	/II. Employer Share of Costs	(1,700,525)	(24,322)	(7,386)	(274)	(27,328)	(1,759,835)
XV	III. Employer (Payments)/Withdrawals to/from OPEB Trust	(67,277)	(6,291)	(4,396)	(257)	(1,779)	(80,000)
XI	X. Total Employer Contribution [XVII. + XVIII.]	(1,767,802)	(30,613)	(11,782)	(531)	(29,107)	(1,839,835)
XX	X. Other Changes	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
XX	I. Net OPEB Expense [XVI.+XIX.+XX.]	2,446,079	454,081	439,850	30,931	73,705	3,444,646

Town of Norton Other Postemployment Benefits Plan Actuarial Valuation as of July 1, 2017 October 31, 2018 Page 3



### SECTION I

#### PRINCIPAL RESULTS OF THE VALUATION (continued)

### **Town of Norton**

# Assuming Funding - 3.50% discount rate For the Period ending on the July 1, 2017 Measurement Date

		Present Value of Future	<u>Total OPEB Liability</u> (Individual Entry Age	
		Benefits	<u>Normal)</u>	Service Cost
Actives				
	Under Age 65			
	A. Participants	10,842,048	6,360,558	433,337
	B. Spouses	<u>7,380,178</u>	<u>4,418,164</u>	285,043
	C. Total	18,222,226	10,778,722	718,380
	Age 65 and Over			
	A. Participants	24,833,016	12,494,520	989,238
	B. Spouses	15,215,742	8,863,052	<u>679,797</u>
	C. Total	40,048,758	21,357,572	1,669,035
	Actives Total			
	A. Participants	35,675,064	18,855,078	1,422,575
	B. Spouses	22,595,920	<u>13,281,216</u>	<u>964,840</u>
	C. Total	58,270,984	32,136,294	2,387,415
Retirees/I	Disabled			
	Under Age 65			
	A. Participants	3,273,118	3,273,118	0
	B. Spouses	<u>1,913,651</u>	<u>1,913,651</u>	<u>0</u>
	C. Total	5,186,769	5,186,769	0
	Age 65 and Over			
	A. Participants	29,844,661	29,844,661	0
	B. Spouses	<u>2,427,192</u>	<u>2,427,192</u>	<u>0</u>
	C. Total	32,271,853	32,271,853	0
	Retirees/Disabled To			
	A. Participants	33,117,779	33,117,779	0
	B. Spouses	<u>4,340,843</u>	4,340,843	<u>0</u>
	C. Total	37,458,622	37,458,622	0
Total Pop				
	A. Participants	68,792,843	51,972,857	1,422,575
	B. Spouses	<u>26,936,763</u>	17,622,059	<u>964,840</u>
	C. Total	95,729,606	69,594,916	2,387,415



#### OVERVIEW OF GASB 74 AND 75

Before Statements 74 and 75, GASB statement 45 established the reporting standards for Other Postemployment Benefit ("OPEB") plans. It was designed to recognize the Other Postemployment Benefits earned by employees throughout their working career vs. when they are paid in retirement – accrual accounting vs. "pay-as-you-go" accounting. Additionally, each eligible active employee earns benefits each year representing benefits to be paid in retirement or a "Service Cost". These amounts are reflected in your financial statement each year so that OPEB benefits for an eligible employee shall be fully charged to the financial statement when that eligible employee terminates employment.

In 2012 GASB issued GASB Statements 67 and 68 to update and standardize the financial reporting of pension liabilities. This increased the transparency of pension liabilities by moving them to the balance sheet and made financial statement disclosures of pension liabilities more comparable between municipal entities. GASB Statements 74 and 75 are designed to have the same effect on OPEB plans.

GASB 74 and 75 require retiree medical plans to disclose information about asset and liability levels and show historical contribution information. GASB 74 only applies in situations where a separate trust is established to prefund these benefits. GASB 75 requires employers to perform periodic actuarial valuations to determine annual accounting costs and to keep a running tally of the extent to which these amounts are over or under funded.

GASB 74 and 75 apply to those benefits provided after retirement, except for pension benefits, such as medical, dental and life insurance. The philosophy behind the accounting standard is that these post-employment benefits are part of the compensation earned by employees in return for their services, and the cost of these benefits should be recognized while employees are providing those services, rather than after they have retired. This philosophy has already been applied for years to defined benefit pensions; GASB 74 and 75 extend this practice to all other post-employment benefits.



# OVERVIEW OF GASB 74 AND 75

(continued)

The process of determining the liability for OPEB benefits is based on many assumptions about future events. The key actuarial assumptions are:

**Turnover and retirement rates:** How likely is it that an employee will qualify for postemployment benefits and when will they start?

**Medical inflation and claims cost assumptions:** When an employee starts receiving postemployment benefits many years from now, how much will be paid each year for the benefits and how rapidly will the costs grow?

**Mortality assumption:** How long is a retiree likely to receive benefits?

**Discount rate assumption:** What is the present value of those future benefit payments in terms of today's dollars?

Since the liability is being recognized over the employee's whole career with the Town, the present value is divided into three pieces: the part that is attributed to past years (the "Total OPEB Liability" or "Past Service Liability"), the part that is being earned this year (the "Service Cost"), and the part that will be earned in future years (the "Future Service Liability").

Once the Accrued Liability and the Service Cost have been calculated, the next step is to determine an actuarially determined contribution. This is an amount that if paid annually would fully prefund the benefits for current active and retired employees. This consists of two pieces:

- ✓ Service Cost because the benefits earned by active employees each year should be paid for each year
- Past Service Cost a catch-up payment to fund the Accrued Liability over a period of time determined by an actuary

The final step is to keep track going forward of how much of the contribution is actually paid. There is no requirement to actually fund these benefits, but the cumulative deficiency must be disclosed on the Town's financial statements as the Net OPEB Liability (NOL). If you decide to fully fund the NOL this will appear in the financial statement as a Net OPEB Asset. In addition, the Discount Rate used to calculate the liabilities must reflect the expected investment income of whatever funds are set aside to prefund the benefits; if there is no prefunding then the Discount Rate will be much lower and the liabilities significantly higher than if the benefits are prefunded.



### OVERVIEW OF GASB 74 AND 75

(continued)

### GASB 74/75 – How we got here:

GASB 74 and 75 were designed to recognize the Other Postemployment Benefits ("OPEB") earned by employees throughout their working career vs. when they are paid in retirement – accrual accounting vs. "pay-as-you-go" accounting while increasing disclosures to better reflect the plan's liabilities and future funding requirements. Additionally, each eligible active employee earns benefits each year representing benefits to be paid in retirement or a "Service Cost". These amounts are reflected in your financial statement each year so that OPEB benefits for an eligible employee shall be fully charged to the financial statement when that eligible employee terminates employment. Additionally, GASB 74 and 75 require increased disclosures comparable to those required under GASB 67 and 68 and interest rates used in the valuation are more closely tied to the plan's underlying investment and funding policy.

### GASB 74 and 75 Impact

The Town has adopted GASB 74 for the fiscal year ending June 30, 2017 and GASB 75 for the fiscal year ending June 30, 2018. The adoption of GASB 74/75 introduces a new actuarial cost method and discount rate as well as new disclosures and methodologies for reporting plan liabilities and OPEB expenses. Significant changes have been made to the recognition of OPEB expenses, making the comparison of Net OPEB Expense in the current valuation to the expenses reported under GASB 45 misleading. The liability reported on the Town's balance sheet will increase dramatically as GASB 74/75 require the recognition of liabilities immediately rather than recognizing liabilities (Net OPEB Obligation) over a 30 year period as GASB 45 allowed. Please keep these changes in mind when considering any comparison to previously reported liabilities and expenses.



### SECTION II

### SUMMARY OF PLAN PROVISIONS

<u>Effective Date</u>	GASB 45 is adopted July 1, 2007 GASB 74 is adopted for the fiscal year ending June 30, 2017 GASB 75 is adopted for the fiscal year ending June 30, 2018
<u>Plan Year</u>	July 1 through June 30.
<u>Eligibility</u>	An employee hired before April 2, 2012 shall become eligible to retire under this plan upon attainment of age 55 as an active member and completion of 10 years of service or an employee shall be able to retire with 20 years of service regardless of age. Those hired on or after April 2, 2012 shall be eligible to retire upon attainment of age 60 with 10 years of creditable service.
<u>Creditable Service</u>	Elapsed time from date of hire to termination of service date.
Participant Contributions	Retirees pay 25%-30% of premiums for Medical Insurance, 25% of premiums for Life Insurance, and 100% of premiums for Dental Coverage.
<u>Benefits Offered</u>	Comprehensive Medical Insurance offered through Blue Cross Blue Shield of Massachusetts as well as Group Term Life Insurance. Retirees can purchase Dental Insurance via DMS or Altus Dental by paying 100% of the premiums.
<u>Excise Tax</u>	Under the Patient Protection and Affordable Care Act ("PPACA"), a 40% tax will be imposed on the cost of medical benefits in excess of a specified threshold.
Normal Retirement Date	The normal retirement date is the first day of the month following a participant's 65th birthday.
Early Retirement	Early retirement is available for any participant who has attained benefit eligibility.



## SECTION III

### ACTUARIAL COST METHOD, ASSET VALUATION METHOD AND ACTUARIAL ASSUMPTIONS

### A. <u>ACTUARIAL COST METHOD</u>

The actuarial cost method used to calculate the costs and liabilities of the plan is the Individual Entry Age Normal Actuarial Cost Method. Under this method, the annual normal cost for each individual active member, payable from the date of employment to the date of retirement, is sufficient to accumulate the value of the member's benefit at the time of retirement. The annual normal cost for each active member is a level percent of payroll. The actuarial accrued liability is the actuarial present value of the projected benefit times the ratio of past service to expected total service at retirement/termination.

Actuarial gains and losses are calculated each year and amortized into the OPEB expense. Gains and losses arising from plan design changes are recognized immediately. Gains and losses arising from differences between expected and actual investment returns are amortized over a five (5) year period. Gain and losses arising from differences between expected and actual plan experience and changes in actuarial assumptions are amortized over the remaining lifetime of all active and retired plan participants (5.47 years for the Town for the 2018 fiscal year).

All employees who are plan participants on the valuation date are included in the actuarial valuation.

#### B. ASSET VALUATION METHOD

The actuarial value of assets is equal to the Market Value of the Plan's assets as of the measurement date.



## SECTION III

#### ACTUARIAL COST METHOD, ASSET VALUATION METHOD AND ACTUARIAL ASSUMPTIONS (continued)

### C. <u>ACTUARIAL ASSUMPTIONS</u>

We used the following assumptions in this year's actuarial valuation:

Pre-Retirement Mortality	It is assumed that pre-retirement mortality is represented by the RP-2000 Employees Mortality Table projected generationally with scale BB and a base year 2009 for males and females
<u>Post-Retirement Mortality</u>	It is assumed that post-retirement mortality is represented by the RP-2000 Healthy Annuitant Mortality Table projected generationally with scale BB and a base year 2009 for males and females
<u>Disabled Mortality</u>	It is assumed that disabled mortality is represented by the RP-2000 Healthy Annuitant Table projected generationally with Scale BB and a base year 2012 for males and females
<u>Mortality Experience Study</u>	The mortality assumptions reflect PERAC's recent experience analysis published in 2014 (based on the years 2006-2011), updated to reflect data through January 1, 2015 for post-retirement mortality, and professional judgement. As such, mortality assumptions reflect observed current mortality as well as expected mortality improvements.
Discount Rate	3.50% per annum (previously 3.50%)
Long Term Rate of Return	6.80% (based on investment policy)



### SECTION III

## ACTUARIAL COST METHOD, ASSET VALUATION METHOD AND ACTUARIAL ASSUMPTIONS

(continued)

### C. <u>ACTUARIAL ASSUMPTIONS (continued)</u>

Municipal Bond Rate 3.13% as of July 1, 2017 (source: S&P Municipal Bond 20-Year High Grade Index - SAPIHG) The PPACA Excise tax is expected to take Excise Tax effect for tax years beginning after December 31, 2021. The projected 2022 threshold amounts are \$12,511 for single coverage and \$32,676 for family coverage. For qualified retirees and those engaged in high risk professions, a "kicker" amount of \$1,650 for single coverage and \$3,450 for family coverage is expected to be added to the above thresholds. **Employee** Termination

It was assumed that employees would terminate employment in accordance with the sample rates shown in the following table:

Non-Public Safety Employees						
	0-4 Years of		5-9 Years of			
	Service	Service	Service	5-9 Years of	<u>10+ Years of</u>	<u>10+ Years of</u>
Age	(Males)	<u>(Females)</u>	(Males)	Service (Females)	Service (Males)	Service (Females)
20	27.00%	27.00%	12.00%	12.00%	6.00%	6.00%
30	23.00%	23.00%	10.00%	10.00%	5.50%	5.50%
40	16.00%	16.00%	8.00%	8.00%	3.50%	3.50%
50	18.00%	18.00%	6.00%	6.00%	3.00%	3.00%
60	18.00%	18.00%	5.00%	5.00%	3.50%	3.50%

Public Safety Employees			
<u>Service</u>	Public Safety Male	<u>Public Safety</u> <u>Female</u>	
0	9.00%	9.00%	
5	6.00%	6.00%	
10	3.50%	3.50%	
15	2.00%	2.00%	
20	1.50%	1.50%	
25	1.50%	1.50%	
30	1.50%	1.50%	

Town of Norton Other Postemployment Benefits Plan Actuarial Valuation as of July 1, 2017 October 31, 2018 Page 11



### SECTION III

#### ACTUARIAL COST METHOD, ASSET VALUATION METHOD AND ACTUARIAL ASSUMPTIONS (continued)

#### C. ACTUARIAL ASSUMPTIONS (continued)

**Retirement Rates** 

It was assumed that the following percentage of eligible employees would retire each year:

Age	Standard Male	Standard Female	Male Teachers	Female Teachers	Public Safety
45	0.00%	0.00%	0.00%	0.00%	1.00%
46	0.00%	0.00%	0.00%	0.00%	1.00%
47	0.00%	0.00%	0.00%	0.00%	1.00%
48	0.00%	0.00%	0.00%	0.00%	1.00%
49	0.00%	0.00%	0.00%	0.00%	1.00%
50	1.00%	1.50%	2.00%	1.50%	2.00%
51	1.00%	1.50%	2.00%	1.50%	2.00%
52	1.00%	2.50%	2.00%	1.50%	2.00%
53	1.00%	2.50%	2.00%	1.50%	5.00%
54	2.00%	2.50%	2.00%	2.00%	7.50%
55	2.00%	5.50%	6.00%	5.00%	15.00%
56	2.50%	6.50%	20.00%	15.00%	10.00%
57	2.50%	6.50%	40.00%	35.00%	10.00%
58	5.00%	6.50%	50.00%	35.00%	10.00%
59	6.50%	6.50%	50.00%	35.00%	15.00%
60	12.00%	5.00%	40.00%	35.00%	20.00%
61	20.00%	13.00%	40.00%	35.00%	20.00%
62	30.00%	15.00%	35.00%	35.00%	25.00%
63	25.00%	12.50%	35.00%	35.00%	25.00%
64	22.00%	18.00%	35.00%	35.00%	30.00%
65	40.00%	15.00%	35.00%	35.00%	100.00%
66	25.00%	20.00%	40.00%	35.00%	100.00%
67	25.00%	20.00%	40.00%	30.00%	100.00%
68	30.00%	25.00%	40.00%	30.00%	100.00%
69	30.00%	20.00%	40.00%	30.00%	100.00%
70	100.00%	100.00%	100.00%	100.00%	100.00%
71	100.00%	100.00%	100.00%	100.00%	100.00%
72	100.00%	100.00%	100.00%	100.00%	100.00%

In the absence of census data specifying which employees are teachers it was assumed that two thirds of school employees are teachers. If available, actual census data was used.



### SECTION III

#### ACTUARIAL COST METHOD, ASSET VALUATION METHOD AND ACTUARIAL ASSUMPTIONS (continued)

**Disability** rates

It was assumed that the following percentage of eligible employees would become permanently disabled each year:

Age	Standard	Teachers	Public Safety
20	0.01%	0.05%	0.20%
25	0.01%	0.06%	0.20%
30	0.01%	0.07%	0.21%
35	0.03%	0.10%	0.40%
40	0.07%	0.21%	0.71%
45	0.10%	0.30%	1.00%
50	0.13%	0.42%	1.10%
55	0.14%	0.50%	0.80%
60	0.12%	0.50%	0.80%



### SECTION III

#### ACTUARIAL COST METHOD, ASSET VALUATION METHOD AND ACTUARIAL ASSUMPTIONS (continued)

### C. <u>ACTUARIAL ASSUMPTIONS (continued)</u>

Healthcare Trend

It was assumed that healthcare costs would increase in accordance with the trend rates in the following table:

<u>Year</u>	<b>Medical</b>	<u>Dental</u>
FY 2013	6.0%	5.5%
FY 2014	5.0%	5.0%
FY 2015	5.0%	5.0%
FY 2016	5.0%	5.0%
FY 2017	5.0%	5.0%
FY 2018	5.0%	5.0%
FY 2019	5.0%	5.0%
FY 2020+	5.0%	5.0%

It was assumed that 80% of employees eligible to receive retirement benefits would enroll in the retiree medical and dental plans upon retirement. For life insurance plans, it was assumed that 80% of eligible employees would elect coverage

It was assumed that 80% of male employees and 70% of female employees who elect retiree healthcare coverage for themselves would also elect coverage for a spouse upon retirement. If provided, the

Participation Rate

Percent Married

actual census information was used. Otherwise it was assumed that a male spouse is three years older than a female spouse and same sex spouses are assumed to be the same age.

upon retirement.



### SECTION III

#### ACTUARIAL COST METHOD, ASSET VALUATION METHOD AND ACTUARIAL ASSUMPTIONS (continued)

#### C. ACTUARIAL ASSUMPTIONS (continued)

Compensation Increases

3.00% per year.

<u>Open Group Forecast</u>

It was assumed for projecting plan liabilities in future years that the active population would remain unchanged and that those who terminate employment or retire will be replaced with new employees with the demographics below:

#### **Open Group Forecast Population Demographics**

Age	Male	<b>Female</b>
20	8.0%	5.0%
30	7.0%	14.0%
40	20.0%	19.0%
50	10.0%	10.0%
60	<u>3.0%</u>	<u>4.0%</u>
Total	48.0%	52.0%

The values in this report reflect a closed group and do not reflect any new entrants after the valuation date.

For purposes of this valuation, retiree contributions were assumed to increase with the same trend rate as health care claims.

Medicare Part B Penalties are not reflected

Medicare Part B Reimbursement is not reflected

#### Town of Norton Other Postemployment Benefits Plan Actuarial Valuation as of July 1, 2017 October 31, 2018 Page 15

Additional Comments



## SECTION III

#### ACTUARIAL COST METHOD, ASSET VALUATION METHOD AND ACTUARIAL ASSUMPTIONS (continued)

### D. <u>DEVELOPMENT OF REPRESENTATIVE MEDICAL PER CAPITA CLAIMS COSTS</u>

As part of the Other Post-Employment Benefits Program, there are situations where the cost is borne partly or entirely on the retirees. In most cases, the premium that is used to split the cost is lower than the true cost of providing the medical benefits, for two reasons:

- ✓ The cost sharing program is usually a fixed amount such as a COBRA premium that does not take into account the age of the retiree and his/her dependents. Since medical costs generally increase with age, the cost sharing premium is often lower than the true cost of the medical benefits:
- ✓ The cost sharing premium is usually a blended rate that takes into account the cost of medical benefits for active employees as well as retirees. Medical costs are generally higher for retirees than for active employees of the same age. This means that, again, the cost sharing premium is often lower than the true cost of the medical benefits.

Because of these two factors, a retiree who is paying 100% of the cost sharing premium is most likely not paying 100% of the true cost of the medical benefits. This situation is known as an "implicit subsidy". GASB 74 and 75 require the plan sponsor to measure the liability for this subsidy; that is, the difference between the true cost of the medical benefits and the cost sharing premiums paid by the retiree. Actuarial Standard of Practice No. 6 ("ASOP 6") requires us to recognize this implicit subsidy while the plan sponsor may only pay the premiums billed by an insurance provider. To do this, our valuation consists of several steps:

First, we calculate the liability for the true cost of medical benefits expected to be received by retirees and their dependents. This liability is based on factors developed by actuaries that reflect how the cost of medical benefits varies by age and gender, as well as the other assumptions discussed on the prior page.

Next, we calculate the liability for the future premiums expected to be paid by the retiree for their own and their dependents' coverage. This liability is based on the current premium rates without adjustment for age or gender. It also is based on the terms of the retiree medical program – different retirees pay different percentages based on their union, date of retirement, age at retirement, and other factors.



### SECTION III

# ACTUARIAL COST METHOD, ASSET VALUATION METHOD AND ACTUARIAL ASSUMPTIONS

#### (continued)

#### D. DEVELOPMENT OF REPRESENTATIVE MEDICAL PER CAPITA CLAIMS COSTS

#### I. CLAIMS COSTS DEVELOPMENT - Based on Active & Retiree Incurred Claims & Premiums

	Number of Participants			
	Single	Two-Person	<u>Family</u>	<u>Total</u>
НМО	136		263	399
PPO	13		6	19
Managed Blue	90			90
Medex	<u>220</u>			220
Total	459	0	269	728
	Per	Contract Costs (mo	onthly) - FY 201	9
	Single	Two-Person	<b>Family</b>	
НМО	773.00		2,023.00	
PPO	1,330.00		3,310.00	
Managed Blue	345.09	690.18		
Medex	382.66	765.32		

Gross Expected FY 2019 Incurred Premiums	9,474,844
Adjustment to reflect children's claims	(1,552,212)
Total Expected FY 2019 Incurred Premiums (adults only)	7,922,632

#### II. PRE-65 AND POST-65 PER CAPITA RETIREE ANNUAL CLAIM COSTS

	Employer <u>Primary</u>	Medicare <u>Primary</u>
Age 65	14,333	4,039
Average Age	9,519	4,461



### SECTION III

#### ACTUARIAL COST METHOD, ASSET VALUATION METHOD AND ACTUARIAL ASSUMPTIONS (continued)

#### D. DEVELOPMENT OF REPRESENTATIVE MEDICAL PER CAPITA CLAIMS COSTS

#### III. BREAKDOWN OF CLAIM COSTS

#### ALL ACTIVE EMPLOYEES AND SPOUSES

	Aged (F) Average	Aged (M) Average
Age Bracket	Claims	Claims
24 & Under	8,388	3,510
25 to 29	8,388	3,778
30 to 34	8,388	4,552
35 to 39	8,388	5,434
40 to 44	8,388	6,393
45 to 49	9,308	7,627
50 to 54	10,222	9,212
55 to 59	11,124	11,207
60 to 64	12,581	13,438
65 to 69	13,860	14,806
70 & Over	15,318	16,347

#### ALL RETIREES AND SPOUSES - NOT MEDICARE ELIGIBLE

	Aged (F) Average	Aged (M) Average
Age Bracket	Claims	Claims
44 & Under	8,388	6,393
45 to 49	9,308	7,627
50 to 54	10,222	9,212
55 to 59	11,124	11,207
60 to 64	12,581	13,438
65 to 69	13,860	14,806
70 to 74	15,318	16,347
75 to 79	16,577	17,702
80 to 84	17,415	18,604
85 to 89	18,310	19,556
90 & Over	19,243	20,553

#### ALL RETIREES AND SPOUSES - MEDICARE ELIGIBLE

	Aged (F) Average	Aged (M) Average
Age Bracket	Claims	Claims
65 to 69	3,905	4,172
70 to 74	4,316	4,606
75 to 79	4,671	4,988
80 to 84	4,907	5,242
85 to 89	5,159	5,510
90 & Over	5,422	5,791

Town of Norton Other Postemployment Benefits Plan Actuarial Valuation as of July 1, 2017 October 31, 2018 Page 18



## SECTION III

#### ACTUARIAL COST METHOD, ASSET VALUATION METHOD AND ACTUARIAL ASSUMPTIONS (continued)

### E. <u>DEVELOPMENT OF REPRESENTATIVE DENTAL PER CAPITA CLAIMS COSTS</u>

### I. CLAIMS COSTS DEVELOPMENT - with Active & Retiree Incurred Premiums

	Per Contract Costs (monthly) - FY 2019SingleTwo-PersonFamily					
	<u>Single</u>	× 5,				
Dental Plan	N/A		N/A			

FY 2019 Expected Per Person Rate

N/A



# EXHIBIT A

### <u>FINANCIAL STATEMENT DISCLOSURE</u> (As of the July 1, 2017 Measurement Date)

The GASB Standards for accounting and financial reporting for postemployment benefits other than pensions require the following disclosures in the financial statements related to the retiree medical, dental and life insurance benefits;

## 1. A DESCRIPTION OF THE RETIREE MEDICAL INSURANCE PROGRAM:

- a. Plan Type: Various Medical Insurance offerings via the Blue Cross Blue Shield of Massachusetts
- b. Administrator: Town of Norton
- c. Eligibility: An employee hired before April 2, 2012 shall become eligible to retire under this plan upon attainment of age 55 as an active member and completion of 10 years of service or an employee shall be able to retire with 20 years of service regardless of age. Those hired on or after April 2, 2012 shall be eligible to retire upon attainment of age 60 with 10 years of creditable service.
- d. Cost Sharing: Retirees pay 25%-30% of premiums

## 2. A DESCRIPTION OF THE RETIREE DENTAL INSURANCE PROGRAM:

a.	Plan Type:	Not Offered
b.	Administrator:	N/A
c.	Eligibility:	N/A
d.	Cost sharing:	N/A

### 3. A DESCRIPTION OF THE RETIREE LIFE INSURANCE PROGRAM:

- a. Plan Type: Group Term Life Insurance \$2,000.
- b. Administrator: Town of Norton
- c. Eligibility: Same as above
- d. Cost sharing: Retirees pay 25% of premiums



## EXHIBIT A

### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

### 4. RETIREE MEDICAL AND LIFE INSURANCE CONTRIBUTIONS:

Group	Individual	Family
Medical	Retirees pay 25%-30%	Retirees pay 25%-30% of
	of premiums	premiums
Dental	Retirees pay 100% of	Retirees pay 100% of
	premiums	premiums
Life	Retirees pay 25% of	N/A
	premiums	

### 5. FUNDING POLICY

The contribution requirements of plan members and the Town are established and may be amended through Town ordinances. For the period ending on the July 1, 2017 Measurement Date total Town premiums plus implicit costs for the retiree medical program were \$1,759,835. The Town also made a contribution to an OPEB Trust of \$80,000 for a total contribution during the measurement period of \$1,839,835 to be reported on the financial statement for the fiscal year ending June 30, 2018.



## EXHIBIT A

### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

### 6. INVESTMENT POLICY

The chart below shows how the long-term rate of return on assets is developed based on the Town's Investment Policy.

Investment Target Allocation & Expected Long-Term Real Rate of Return						
Asset Class	Target Allocation	Asset Class	Long-Term Expected Real Rate of Return			
Domestic Equity - Large Cap	20.00%	Domestic Equity - Large Cap	4.00%			
Domestic Equity - Small/Mid Cap International Equity - Developed Market	10.00% 10.00%	Domestic Equity - Small/Mid Cap International Equity - Developed Market	6.00% 4.50%			
International Equity-Emerging Market	5.00%	International Equity-Emerging Market	7.00%			
Domestic Fixed Income International Fixed Income	25.00% 10.00%	Domestic Fixed Income International Fixed Income	2.00% 3.00%			
Alternatives	20.00%	Alternatives	6.50%			
Real Estate	0.00%	Real Estate	6.25%			
Cash Total	<u>0.00%</u> 100.00%	Cash	<u>0.00%</u>			
		I. Real Rate of Return	4.30%			
		II. Inflation Assumption	2.75%			
		III. Total Nominal Return [I. + II.]	7.05%			
		IV. Investment Expense	0.25%			
		V.Net Investment Return [IIIIV.]	6.80%			



## EXHIBIT A

#### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

### 7. ACTUARIALLY DETERMINED CONTRIBUTION (ADC)

The Town's Actuarially Determined Contribution (ADC) is an amount actuarially determined in accordance with the parameters of GASB Statement No. 74/75 which represents a level of funding that, if paid on an ongoing basis, is projected to cover the service cost each year and amortize any unfunded actuarial liabilities (or funding excess). The following table shows the components of the Town's annual ADC for the fiscal year and the amount actually contributed to the plan:

Actuarially Determined Contribution - Deficiency / (E	xcess)
For the Period Ending on the July 1, 2017 to be Rep	<u>orted on June 30, 2018</u>
I. Service Cost	2,387,415
II. 30 year level flat dollar amortization of NOL at 3.50%	<u>3,640,689</u>
III. Actuarial Determined Contribution [I. + II.]	6,028,104
IV. Contributions in relation to the actuarially determined contribution	<u>(1,839,835)</u>
V. Contribution deficiency / (excess) [III. + IV.]	4,188,269
Covered employee payroll	29,407,526
Contributions as a % of covered employee payroll	6.26%



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### EXHIBIT A

#### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

### 8. FUNDED STATUS AND FUNDING PROGRESS

As of the July 1, 2017 Measurement Date, the plan was 0.42% funded. The Total OPEB Liability (TOL) for benefits was \$69,594,916, and the Fiduciary Net Position was \$291,612, resulting in a Net OPEB Liability (NOL) of \$69,303,304. The covered payroll (annual payroll of active employees covered by the plan) was \$ 29,407,526 and the ratio of the NOL to the covered payroll was 235.7%.

Actuarial valuations of an ongoing plan involve estimates of the value of reported amounts and assumptions about the probability of occurrence of events far into the future. Examples include assumptions about future employment, mortality, and the healthcare cost trend. Amounts determined regarding the funded status of the plan and the actuarially determined contribution of the employer are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future. The schedule of funding progress, presented in the required supplementary information following the financial statements, presents multiyear trend information about whether the actuarial value of plan assets is increasing or decreasing over time relative to the Total OPEB Liabilities for benefits.

Fiscal Year	Measurement Date	Fiduciary Net Position	Total OPEB Liability	Net OPEB Liability	Funded Ratio	Covered Payroll	NOL as a % of Covered Payroll
2020	07/01/2019 (est.)	\$513,190	\$75,099,075	\$74,585,885	0.7%	\$31,198,444	239.1%
2019	07/01/2018 (est.)	\$393,427	\$72,237,599	\$71,844,172	0.5%	\$30,289,752	237.2%
2018	07/01/2017	\$291,612	\$69,594,916	\$69,303,304	0.4%	\$29,407,526	235.7%
2017	07/01/2016	\$190,985	\$62,533,766	\$62,342,781	0.3%	\$24,099,366	258.7%
2016	07/01/2015	\$111,437	\$59,970,409	\$59,858,972	0.2%	\$23,397,443	255.8%
2015	07/01/2014	\$51,179	\$57,231,170	\$57,179,991	0.1%	\$27,927,301	204.7%



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## EXHIBIT A

#### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

### 9. FIDUCIARY NET POSITION

Statement of Fiduciary Net Position July 1, 2017 and July 1, 2018					
Assets	<u>July 1, 2018</u>	<u>July 1, 2017</u>			
I. Cash and cash equivalents	0	0			
Receivables & Prepaid expenses:					
II. Contributions	0	0			
III. Investment Income	0	0			
IV. Receivables from brokers for unsettled trades	0	0			
V. Prepaid expenses	<u>0</u>	<u>0</u>			
VI. Total Receivables [II.+III.+IV.+V.]	0	0			
OPEB Trust Investments:					
VII. Fixed Income	137,700	102,065			
VIII. Stocks	177,042	131,225			
IX. Cash and cash equivalents	0	0			
X. Real estate	0	0			
XI. Alternative investments	<u>78,685</u>	<u>58,322</u>			
XII. Total Investments [VII.+VIII.+IX.+X.+XI.]	393,427	291,612			
Invested securities lending cash collateral	0	0			
Capital assets, net of accumulated depreciation	0	0			
Total Assets	393,427	291,612			
Liabilities					
XIII. Accrued expenses and benefits payable	0	0			
XIV. Securities lending cash collateral	0	0			
XV. Payable to brokers for unsettled trades	<u>0</u>	<u>0</u>			
XVI. Total liabilities [XIII.+XIV.+XV.]	<u>0</u>	<u>0</u>			
XVII. Net Position restricted for OPEB [XIIXVI.]	393,427	291,612			



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### EXHIBIT A

### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

# 9. FIDUCIARY NET POSITION (CONTINUED)

Statement of Changes in Fiduciary Net Position	
For the Year Ending on the July 1, 2017 Measurement D	ate
Additions	
<u>Contributions</u>	
Employer Contributions to OPEB Trust	<u>80,000</u>
Total Contributions	80,000
Investment Income / (loss)	
Interest	5,140
Dividends	2,625
Equity fund income, net	0
Net increase in fair value of investments	12,862
Securities lending income	0
Less investment expenses:	
Direct investment expense	0
Securities lending management fees	0
Securities lending borrower rebates	<u>0</u>
Net investment income	20,627
Other income	<u>0</u>
Total Additions	<u>100,627</u>
Deductions	
Service benefits	0
Disability benefits	0
Death benefits	0
Refunds	0
Administrative expenses	<u>0</u>
Total deductions	<u>0</u>
Net increase (decrease)	100,627
Net Position restricted for OPEB	
As of July 1, 2016	<u>190,985</u>
As of July 1, 2017	291,612



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### EXHIBIT A

## FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date)

(continued)

### 10. OPEB LIABILITY, OPEB EXPENSE AND ADC

	Fiscal Year Ending June 30, 2018						
Town Employees and Retirees	Police Employees and Retirees	Fire Employees and Retirees	Sewer Enterprise Employees and Retirees	Water Enterprise Employees and Retirees	Total		
59,001,299 247,195	5,274,112 22,102	3,568,390 14,950	203,745 859	1,547,370 6,506	69,594,916 291,612		
58,754,104	5,252,010	3,553,440	202,886	1,540,864	69,303,304		
1,769,223 1,907,193 (13,263) 550,728	260,758 175,898 (1,192) 49,230	296,389 122,745 (810) 33,308	22,432 7,175 (47) 1,902	38,613 50,106 (350) 14,443	2,387,415 2,263,117 (15,662) 649,611		
4,213,881 (1,700,525) (67,277) (1,767,802)	484,694 (24,322) (6,291) (30,613)	451,632 (7,386) (4,396) (11,782)	31,462 (274) (257) (531)	102,812 (27,328) (1,779) (29,107)	5,284,481 (1,759,835) (80,000) (1,839,835)		
2,446,079	454,081	439,850	30,931	73,705	3,444,646		
4,855,734 1,767,802	536,660 30,613	483,061 11,782	33,090 531	119,559 29,107	6,028,104 1,839,835 31%		
	Retirees   59,001,299   247,195   58,754,104   1,769,223   1,907,193   (13,263)   550,728   4,213,881   (1,700,525)   (67,277)   (1,767,802)   2,446,079   4,855,734	Retirees and Retirees   59,001,299 5,274,112   247,195 22,102   58,754,104 5,252,010   1,769,223 260,758   1,907,193 175,898   (13,263) (1,192)   550,728 49,230   4,213,881 484,694   (1,700,525) (24,322)   (67,277) (6,291)   (1,767,802) (30,613)   2,446,079 454,081   4,855,734 536,660   1,767,802 30,613	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $		

		Fiscal Year Ending June 30, 2019						
	Town Employees and Retirees	Police Employees and Retirees	Fire Employees and Retirees	Sewer Enterprise Employees and Retirees	Water Enterprise Employees and Retirees	Total		
I. Total OPEB Liability	60,748,545	5,680,837	3,969,847	232,147	1,606,223	72,237,599		
II. Fiduciary Net Position as of July 1, 2018	332,911	30,068	20,494	1,183	8,771	393,427		
III. Net OPEB Liability (Asset) [I II.]	60,415,634	5,650,769	3,949,353	230,964	1,597,452	71,844,172		
IV. Service Cost	1,645,676	242,549	275,692	20,866	35,917	2,220,700		
V. Interest on Total OPEB Liability (Asset), Service Cost, and Benefit Payments	2,088,180	192,590	134,393	7,856	54,861	2,477,880		
VI. Projected Earnings on OPEB plan investments	(19,200)	(1,726)	(1,173)	(68)	(506)	(22,673)		
VII. Net Recognition of Deferred (Inflows)/Outflows	551,719	49,319	33,369	1,906	14,469	650,782		
VIII. Financial Statement Expense [IV. + V. + VI. + VII.]	4,266,375	482,732	442,281	30,560	104,741	5,326,689		
IX. Employer Share of Costs	(1,986,609)	(28,414)	(8,628)	(320)	(31,925)	(2,055,896)		
X. Employer (Payments) Withdrawals to/from OPEB Trust	(71,482)	(6,684)	(4,671)	(273)	(1,890)	(85,000)		
XI. Total Employer Contribution [IX. + X.]	(2,058,091)	(35,098)	(13,299)	(593)	(33,815)	(2,140,896)		
XII. Net OPEB Expense [VIII. + XI.]	2,208,284	447,634	428,982	29,967	70,926	3,185,793		
XIII. Actuarial Determined Contribution (ADC)	4,819,472	539,399	483,162	32,999	119,835	5,994,867		
XIV. Total Expected Contribution	2,058,091	35,098	13,299	593	33,815	2,140,896		
XV. Percentage of ADC Contributed [XIV. / XIII.]	43%	7%	3%	2%	28%	36%		



#### EXHIBIT A

# FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date)

(continued)

#### 11. OPEB LIABILITY, OPEB EXPENSE AND DEFERRED INFLOW/OUTFLOW

Valuation Date	July 1, 2017	July 1, 2017
For the Measurement Period ending on the Measurement Date of: For the Reporting Period & Fiscal Year ending on:	July 1, 2017 June 30, 2018	July 1, 2018 June 30, 2019
rot the Reporting remote we iscar rear chang on.	June 30, 2010	suite 30, 2017
Source of Deferred Inflow/Outfl	ow	
I. Deferred (Inflow)/Outflow from Actual vs. Expected Experience	2,908,201	2,257,597
II. Deferred (Inflow)/Outflow from Investment Experience	(3,972)	1,707
III. Deferred (Inflow)/Outflow from Changes in Benefit Terms	0	0
IV. Deferred (Inflow)/Outflow from Changes in Assumptions	0	0
Change in Deferred Inflow/Outf	low	
I. Deferred Outflow at the beginning of the period	0	2,908,201
II. Deferred Outflow created during the period	3,558,805	5,857
III. Deferred Outflow recognized during the period	650,604	651,775
IV. Change in Deferred Outflow (II III.)	2,908,201	645,918
V. Deferred Outflow at end of the period (I. + IV.)	2,908,201	2,262,283
VI. Deferred Inflow at the beginning of the period	0	(3,972)
VII. Deferred Inflow created during the period	(4,965)	0 (993)
VIII. Deferred Inflow recognized during the period IX. Deferred Inflow at end of the period (VII VIII.)	(993) (3,972)	993)
X. Deferred Inflow at end of the period (VI VIII.)	(3,972)	(2,979)
	(3,772)	(2,,,,))
Net OPEB Liability		
I. Net OPEB Liability at beginning of period	62,954,429	69,303,304
II. Service Cost	2,387,415	2,220,700
III. Interest on Total OPEB Liability, Service Cost, and Payments	2,263,117	2,477,880
IV. Projected Investment Income	(15,662)	(22,673)
V. Total Employer Contributions	<u>(1,839,835)</u>	(2,140,896)
VI. Net OPEB Expense - Before Recognition of Deferred (Inflow)/Outflow (II. + III. + IV. + V.)	2,795,035	2,535,011
VII. Deferred Outflow created during the period VIII. Deferred Inflow created during the period	3,558,805 (4,965)	5,857
IX. Net OPEB Liability at end of period (I. + VI. + VII. + VIII. )	(4,903) 69,303,304	71,844,172
		,,
Net OPEB Expense		
I. Service Cost	2,387,415	2,220,700
II. Interest on Total OPEB Liability, Service Cost, and Payments	2,263,117	2,477,880
III. Projected Investment Income	(15,662)	(22,673)
IV. Recognition of Deferred (Inflow)/Outflow	<u>649,611</u>	650,782
V. Financial Statement Expense (I. + II. + III. + IV.)	5,284,481	5,326,689
VI. Benefit Payments	(1,759,835)	(2,055,896)
VII. Contributions to Trust	( <u>80,000)</u> (1.839.835)	<u>(85,000)</u> (2,140,896)
VIII. Total Employer Payments (VI. + VII.) IX. Total Employer Payments (V. + VIII.)	3,444,646	(2,140,896) 3,185,793
xxx x van zmprojet x ajmento (+, + + 111, )	3,777,040	5,105,775
Valuation Date	July 1, 2017	July 1, 2017
For the Measurement Period ending on the Measurement Date of:	July 1, 2017	July 1, 2018
For the Reporting Period & Fiscal Year ending on:	June 30, 2018	June 30, 2019



## EXHIBIT A

#### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

#### **12.** EFFECT OF 1% CHANGE IN HEALTHCARE TREND

#### Impact of a 1% Change in the Healthcare Trend Rate as of the July 1, 2017 Measurement Date 1% Decrease (4.00%) Current Trend Rate (5.00%) 1% Increase (6.00%) I. Total OPEB Liability 54,881,151 69,594,916 88,840,081 **II. Fiduciary Net Position** 291,612 <u>291,612</u> 291,612 III. Net OPEB Liability (Asset) [I.-II.] 54,589,539 69,303,304 88,548,469 **IV. Service Cost** 1,592,601 2,387,415 3,525,335

#### Impact of a 1% Change in the Healthcare Trend Rate as of the July 1, 2018 Measurement Date

	1% Decrease (4.00%)	Current Trend Rate (5.00%)	<u>1% Increase (6.00%)</u>
I. Total OPEB Liability	56,964,081	72,237,599	92,214,904
II. Fiduciary Net Position	<u>393,427</u>	<u>393,427</u>	<u>393,427</u>
III. Net OPEB Liability (Asset) [III.]	56,570,654	71,844,172	91,821,477
IV. Service Cost	1,481,541	2,220,701	3,278,942

#### 13. EFFECT OF 1% CHANGE IN DISCOUNT RATES

Impact of a 1% Change in the Discount Rate as of the July 1, 2017 Measurement Date								
	1% Decrease (2.50%) Current Discount Rate (3.50%) 1% Increase (4.50%)							
I. Total OPEB Liability	82,377,867	69,594,916	59,557,993					
II. Fiduciary Net Position	<u>291,612</u>	<u>291,612</u>	<u>291,612</u>					
III. Net OPEB Liability (Asset) [III.]	82,086,255	69,303,304	59,266,381					
IV. Service Cost	3,209,571	2,387,415	1,796,805					

#### Impact of a 1% Change in the Discount Rate as of the July 1, 2018 Measurement Date

	1% Decrease (2.50%)	Current Discount Rate (3.50%)	<u>1% Increase (4.50%)</u>
I. Total OPEB Liability	85,505,949	72,237,599	61,819,550
II. Fiduciary Net Position	<u>393,427</u>	<u>393,427</u>	<u>393,427</u>
III. Net OPEB Liability (Asset) [III.]	85,112,522	71,844,172	61,426,123
IV. Service Cost	2,985,446	2,220,701	1,671,333



# EXHIBIT A

#### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

#### 14. ACTUARIAL METHODS AND ASSUMPTIONS

Projections of benefits for financial reporting purposes are based on the substantive plan (the plan as understood by the employer and plan members) and include the types of benefits provided at the time of each valuation and the historical pattern of sharing of benefit costs between the employer and plan members to that point. The actuarial methods and assumptions used include techniques that are designed to reduce the effects of short-term volatility in actuarial accrued liabilities and the actuarial value of assets, consistent with the long-term perspective of the calculations.

Actuarial Cost Method: Discount Rate: Healthcare Trend Rates Individual Entry Age Normal 3.50% per annum (previously 3.50%)

<u>Year</u>	<u>Medical</u>	<u>Dental</u>
FY 2013	6.0%	5.5%
FY 2014	5.0%	5.0%
FY 2015	5.0%	5.0%
FY 2016	5.0%	5.0%
FY 2017	5.0%	5.0%
FY 2018	5.0%	5.0%
FY 2019	5.0%	5.0%
FY 2020+	5.0%	5.0%

General Inflation Assumption: Annual Compensation Increases: Actuarial Value of Assets:

2.75% per annum 3.00% per annum Market Value



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# EXHIBIT A

#### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

### 15. RECOGNITION OF OPEB TRUST ASSETS

The State of Massachusetts has passed legislation allowing municipal entities to establish a Trust for Other Postemployment Benefits ("OPEB") under M.G.L. Chapter 32B, Section 20 for purposes of accumulating assets to pre-fund the liabilities under GASB 75. This legislation was amended effective November 9, 2016 to clarify who may adopt such a Trust and provide guidance on the ongoing operation of such a Trust. To the best of our knowledge, the Town of Norton has established an irrevocable trust for the purposes of prefunding liabilities under GASB 74/75.

#### **16. OPEB EXPENSE DEVELOPMENT**

Description	Amount	
	2 207 445	
I. Service Cost	2,387,415	
II. Interest on Total OPEB Liability (Asset), Service Cost, and Benefit Payments	2,263,117	
III. Deferred (Inflows)/Outflows from Plan Design Changes*	C	
IV. Deferred (Inflows)/Outflows from Plan Experience**	650,604	
V. Deferred (Inflows)/Outflows from Changes of Assumptions**	0	
VI. Projected earnings on OPEB plan investments	(15,662	
VII. Deferred (Inflows)/Outflows from Earnings on Plan Investments***	(993	
VIII. Total Employer Contributions	(1,839,835	
IX. OPEB Plan administrative expense	C	
X. Other changes in fiduciary net position	(	
XI. Net OPEB expense [I.+II.+III.+IV.+V.+VI.+VII.+VII.+IX.+ X.]	3,444,646	

\* Recognized Immediately

\*\* Amortized over 5.47 years

\*\*\* Amortized over 5 years



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#### EXHIBIT A

#### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

#### 17. CHANGES IN NET OPEB LIABILITY

Changes in Net OPEB Liability			
		Increase (Decrease)	
	Total OPEB Plan Fiduciary Net		
	Liability	Position	Liability
I. Balances at July 1, 2016 GASB 45	62,533,766	190,985	62,342,781
II. Change in Assumptions for GASB 75	<u>611,648</u>	<u>0</u>	<u>611,648</u>
III. Balances at July 1, 2016 GASB 75 [I. + II.]	63,145,414	190,985	62,954,429
Changes for the year:			
IV. Service Cost	2,387,415	0	2,387,415
V. Interest on Total OPEB Liability, Service Cost, and Benefit Payments	2,263,117	0	2,263,117
VI. Changes in Benefit terms *	0	0	0
VII. Change in assumptions **	0	0	0
VIII. Differences between actual and expected experience **	3,558,805	0	3,558,805
IX. Net Investment Income	0	20,627	(20,627
X. Employer Contributions to Trust	0	1,839,835	(1,839,835
XI. Benefit Payments Withdrawn from Trust	0	(1,759,835)	1,759,835
XII. Benefit payments excluding Implicit Cost	N/A	0	N/#
XIII. Implicit Cost amount	N/A	0	N/#
XIV. Total Benefit payments including Implicit Cost [XII. + XIII.]	(1,759,835)	0	(1,759,835
XV. Administrative expense	0	0	0
XVI. Other Charges	0	0	0
XVII. Net Changes [IV.+V.+VI.+VII.+VIII.+IX.+X.+XI.+XIV.+XV.+XVI.]	6,449,502	100,627	6,348,875
XVII. Balances at July 1, 2017 [III.+XVII.]	69,594,916	291,612	69,303,304

\* Recognized Immediately

\*\* Amortized over 5.47 years



# EXHIBIT A

#### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

#### 18. MONEY WEIGHTED RATE OF RETURN

Determination of Beginning & Ending Balances of OPEB Plan Investments for Purposes of Calculating the Annual Money-Weighted Rate of Return			
	Assets as of July 1, 2016	Assets as of July 1, 2017	
Assets			
Cash and cash equivalents	0	0	
Receivables:			
Investment income	0	0	
Receivables from brokers for unsettled trades	0	0	
Investments			
Fixed income	66,845	102,065	
Stocks	85,943	131,225	
Cash and cash equivalents	0	0	
Real estate	0	0	
Alternative investments	38,197	58,322	
Invested securities lending cash collateral	0	0	
Liabilities			
Securities lending cash collateral	0	0	
Payable to brokers for unsettled trades	0	0	
Total OPEB plan investments	190,985	291,612	



### EXHIBIT A

#### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

#### **18.** MONEY WEIGHTED RATE OF RETURN (CONTINUED)

	Ріап Investments / Net External	Periods Invested	Period Weight
I. Beginning value - July 1, 2016 Monthly net external cash flows: July August	190,985 0 0	12 11 10	1.0000 0.9167 0.8333
September October November December January February	80,000 0 0 0 0 0	9 8 7 6 5 4	0.3333 0.7500 0.6667 0.5833 0.5000 0.4167 0.3333
March	0	3	0.2500
April May <u>June</u> II. Total net external cash flow III. Earnings and increase in fair value	0 0 <u>0</u> 80,000 20,627	2 1 0	0.1667 0.0833 0.0000
IV. Ending value - June 30, 2017 [I.+II.+III.] Money Weighted Rate of Return	291,612 8.24%		
Asset Value - June 30, 2017	291,612		



# EXHIBIT A

#### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

#### 19. PLAN CASH FLOWS

Aggregate External (Noninvestment Cash Flows)	
For the Year Ending on the July 1, 2017 Measurement Date	
Additions	
<u>Contributions</u>	
Member contributions	0
Employer contributions	80,000
Other income	0
Deductions	
Service benefits	0
Disability benefits	0
Death benefits	0
Refunds	0
Administrative expenses	0
Beginning balances of noninvestment-related assets and liabilities	
Contribution receivable	0
Prepaid expenses	0
Accrued expenses & benefits payable	0
Ending balances of noninvestment-related assets and liabilities	
Contribution receivable	0
Prepaid expenses	0
Accrued expenses & benefits payable	0
Change in capital assets - depreciation	0
Aggregate external cash flows	80,000



# EXHIBIT A

## FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

# 19. PLAN CASH FLOWS (CONTINUED)

Reconciliation of Beginning & Ending Balances of OPEB Plan Investments, Aggregate External Cash Flows, and Net Investment Income	
For the Year Ending on the July 1, 2017 Measurement Date	
I. Total OPEB plan investments on July 1, 2016	190,985
II. Aggregate external cash flows	80,000
III. Net investment income	<u>20,627</u>
IV. Total OPEB plan investments on July 1, 2017 [I.+II.+III.]	291,612



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#### EXHIBIT A

#### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

#### 20. PLAN PROJECTION DISCLOSURES

#### Projection of Contributions using a July 1, 2017 Valuation Date

For the Period				IV.	V. Employer		
Ending on the	I. Payroll for	II. Payroll for		Contributions	Payments for	VI. Employer	VII. Total
Measurement	current	, future	III. Total employee	from current	, current plan	Payments for	Payments
Date	employees	employees	payroll [I.+II.]	employees	members	future employees	[IV.+V.+VI.]
July 1, 2017	29,407,526	0	29,407,526	0	1,759,835	0	1,759,835
				0		0	
July 1, 2018	27,649,923	2,639,829	30,289,752		2,055,896		2,055,896
July 1, 2019	26,255,979	4,942,466	31,198,445	0	2,071,229	0	2,071,229
July 1, 2020	25,059,073	7,075,325	32,134,398	0	2,155,817	0	2,155,817
July 1, 2021	23,986,732	9,111,698	33,098,430	0	2,286,994	0	2,286,994
July 1, 2022	23,072,279	11,019,104	34,091,383	0	2,398,279	0	2,398,279
July 1, 2023	22,108,585	13,005,539	35,114,124	0	2,509,217	0	2,509,217
July 1, 2024	21,293,056	14,874,492	36,167,548	0	2,641,677	0	2,641,677
July 1, 2025	20,430,637	16,821,937	37,252,574	0	2,801,280	0	2,801,280
July 1, 2026	19,552,849	18,817,302	38,370,151	0	2,915,131	0	2,915,131
July 1, 2027	18,605,752	20,915,504	39,521,256	0	3,051,640	0	3,051,640
July 1, 2028	17,663,906	23,042,988	40,706,894	0	3,226,143	0	3,226,143
July 1, 2029	16,677,988	25,250,113	41,928,101	0	3,420,877	18,635	3,439,512
July 1, 2030	15,744,810	27,441,134	43,185,944	0	3,565,632	49,446	3,615,078
July 1, 2031	14,724,503	29,757,019	44,481,522	0	3,731,597	93,762	3,825,359
July 1, 2032	13,804,766	32,011,202	45,815,968	0	3,921,655	152,591	4,074,246
July 1, 2033	12,909,991	34,280,456	47,190,447	0	4,048,189	224,880	4,273,069
July 1, 2034	11,953,797	36,652,363	48,606,160	0	4,197,907	284,591	4,482,498
July 1, 2035	11,127,707	38,936,638	50,064,345	0	4,285,285	353,748	4,639,033
July 1, 2036	10,318,074	41,248,201	51,566,275	0	4,362,419	431,811	4,794,230
July 1, 2037	9,474,527	43,638,736	53,113,263	0	4,420,266	502,528	4,922,794
July 1, 2038	8,721,930	45,984,731	54,706,661	0	4,490,003	580,559	5,070,562
July 1, 2039	7,893,853	48,454,008	56,347,861	0	4,552,733	686,245	5,238,978
July 1, 2040	7,165,406	50,872,891	58,038,297	0	4,607,607	826,455	5,434,062
July 1, 2041	6,468,185	53,311,261	59,779,446	0	4,660,096	1,001,627	5,661,723
July 1, 2042	5,893,993	55,678,836	61,572,829	0	4,765,563	1,213,279	5,978,842
July 1, 2043	5,370,748	58,049,266	63,420,014	0	4,786,868	1,461,022	6,247,890
July 1, 2044	4,811,790	60,510,824	65,322,614	0	4,758,597	1,680,098	6,438,695
July 1, 2045	4,334,777	62,947,515	67,282,292	0	4,837,211	1,922,837	6,760,048
July 1, 2046	3,885,996	65,414,765	69,300,761	0	4,889,393	2,190,425	7,079,818
July 1, 2047	3,420,532	67,959,252	71,379,784	0	4,877,039	2,446,662	7,323,701
July 1, 2048	2,979,056	70,542,122	73,521,178	0	4,899,738	2,722,389	7,622,127
July 1, 2049	2,607,595	73,119,218	75,726,813	0	4,914,670	3,035,109	7,949,779
July 1, 2050	2,252,744	75,745,873	77,998,617	0	4,944,459	3,379,802	8,324,261
July 1, 2051	1,926,864	78,411,712	80,338,576	0	4,927,995	3,758,841	8,686,836
July 1, 2052	1,591,149	81,157,584	82,748,733	0	4,924,938	4,174,135	9,099,073
July 1, 2053	1,297,584	83,933,611	85,231,195	0	4,873,772	4,629,344	9,503,116
July 1, 2054	1,062,975	86,725,156	87,788,131	0	4,818,068	5,091,805	9,909,873
July 1, 2055	838,437	89,583,338	90,421,775	0	4,787,113	5,585,339	10,372,452
July 1, 2056	633,772	92,500,656	93,134,428	0	4,666,790	6,111,211	10,778,001



#### EXHIBIT A

#### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

		Projection of Co	ontributions using a Ju	ly 1, 2017 Valuat	ion Date (Contin	ued)	
For the Period Ending on the	I. Payroll for	II. Payroll for		IV. Contributions	V. Employer Payments for	VI. Employer	VII. Total
Measurement	current	future	III. Total employee	from current	current plan	Payments for	Payments
Date		employees	payroll [I.+II.]	employees	members	future employees	[IV.+V.+VI.]
	employees	• •		• •		• •	
July 1, 2057	461,906	95,466,555	95,928,461	0	4,627,211	6,659,762	11,286,973
July 1, 2058	321,610	98,484,705	98,806,315	0	4,516,204	7,227,176	11,743,380
July 1, 2059	240,746	101,529,758	101,770,504	0	4,420,491	7,847,263	12,267,754
July 1, 2060	170,094	104,653,525	104,823,619	0	4,309,452	8,506,940	12,816,392
July 1, 2061	116,348	107,851,980	107,968,328	0 0	4,228,761	9,207,314	13,436,075
July 1, 2062	50,698	111,156,680	111,207,378		4,101,678	9,955,643	14,057,321
July 1, 2063	28,985	114,514,614	114,543,599	0 0	3,963,516	10,751,661	14,715,177
July 1, 2064	7,761	117,972,146	117,979,907		3,851,326	11,583,008	15,434,334
July 1, 2065	2,155	121,517,149	121,519,304	0 0	3,707,554	12,459,939	16,167,493
July 1, 2066	0 0	125,164,883	125,164,883	0	3,581,327	13,382,068	16,963,395
July 1, 2067		128,919,829	128,919,829		3,448,824	14,343,442	17,792,266
July 1, 2068	0	132,787,424	132,787,424	0	3,311,614	15,352,689	18,664,303
July 1, 2069	0 0	136,771,047	136,771,047	0 0	3,171,131	16,411,279	19,582,410
July 1, 2070		140,874,178	140,874,178		3,027,741	17,522,760	20,550,501
July 1, 2071	0 0	145,100,403	145,100,403	0 0	2,882,921	18,688,643	21,571,564
July 1, 2072	0	149,453,415	149,453,415	0	2,736,983	19,912,702	22,649,685
July 1, 2073	0	153,937,017	153,937,017	0	2,591,173	21,197,085 22,542,360	23,788,258
July 1, 2074	0	158,555,128 163,311,782	158,555,128	0	2,445,578	22,542,360 23,949,260	24,987,938
July 1, 2075	0		163,311,782	0	2,301,087		26,250,347
July 1, 2076	0	168,211,135	168,211,135	0	2,157,295	25,423,593	27,580,888
July 1, 2077 July 1, 2078	0	173,257,469	173,257,469	0	2,015,315	26,965,556 28,577,775	28,980,871
July 1, 2078	0	178,455,193 183,808,849	178,455,193 183,808,849	0	1,875,296 1,737,517	30,263,868	30,453,071 32,001,385
July 1, 2079 July 1, 2080	0			0		32,030,908	
	0	189,323,114 195,002,807	189,323,114 195,002,807	0	1,602,431	33,881,561	33,633,339
July 1, 2081 July 1, 2082	0	200,852,891	200,852,891	0	1,470,692 1,342,642	35,819,712	35,352,253
July 1, 2082 July 1, 2083	0	206,878,478	206,878,478	0	1,218,817	37,852,712	37,162,354 39,071,529
July 1, 2083	0	213,084,832	213,084,832	0	1,099,382	39,985,220	41,084,602
July 1, 2084	0	219,477,377	219,477,377	0	985,052	42,219,960	43,205,012
July 1, 2085	0	226,061,698	226,061,698	0	875,985	42,219,900	
July 1, 2086 July 1, 2087	0	232,843,549	232,843,549	0	773,307	44,505,539	45,441,324 47,799,569
July 1, 2087 July 1, 2088	0	239,828,855	232,843,345	0	676,990	49,607,647	50,284,637
July 1, 2088	0	247,023,721	239,828,855	0	587,552	52,315,764	52,903,316
July 1, 2089	0	254,434,433	254,434,433	0	505,604	55,160,381	55,665,985
July 1, 2090 July 1, 2091	0	262,067,466	254,454,455	0	430,632	58,147,423	
July 1, 2091 July 1, 2092	0	269,929,490	269,929,490	0	430,632 363,364	58,147,423 61,284,245	58,578,055 61,647,609
July 1, 2092 July 1, 2093	0	278,027,375	278,027,375	0	-	64,580,477	
-	0			0	303,095		64,883,572
July 1, 2094	0	286,368,196	286,368,196	0	250,517	68,044,395 71,682,202	68,294,912
July 1, 2095	0	294,959,242	294,959,242	0	204,177	71,683,292	71,887,469



East Coast 11 Hayward Ave, Building 4 Colchester, CT 06415 (860) 537-9080 West Coast 1350 E. Flamingo Road, Suite 254 Las Vegas, NV 89119 (702) 979-2880

#### EXHIBIT A

#### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

#### 20. PLAN PROJECTION DISCLOSURES (CONTINUED)

		rigeelion of or	LD Flatt S Flauch	ary wet rosition u	sing a July 1, 2017	valuation Date		
For the Period Ending on the	I. Beginning Fiduciary Net Position for	II. Portion of Employer Contributions for	III. Total	IV.	V. Total	VI. Contributions to Trust for		VIII. Ending Fiduciary Net Position for
Measurement	Current Plan	Current Plan	Benefit	Administrative	Contributions to	Current Plan	VII. Investment	Current Plan
Date	Members	Members	Payments	Expense	Trust	Members	Earnings	Members
July 1, 2017	190,985	1,759,835	1,759,835	0	80,000	80,000	20,627	291,61
July 1, 2018	291,612	2,055,896	2,055,896	0	85,000	77,592	16,815	386,01
July 1, 2019	386,019	2,071,229	2,071,229	0	90,000	75,742	29,259	491,02
July 1, 2020	491,020	2,155,817	2,155,817	0	95,000	74,083	36,566	601,66
July 1, 2021	601,669	2,286,994	2,286,994	0	100,000	72,471	44,258	718,39
July 1, 2022	718,398	2,398,279	2,398,279	0	105,000	71,062	52,362	841,82
July 1, 2023	841,822	2,509,217	2,509,217	0	110,000	69,258	60,922	972,00
July 1, 2024	972,002	2,641,677	2,641,677	0	115,000	67,704	69,942	1,109,64
July 1, 2025	1,109,648	2,801,280	2,801,280	0	120,000	65,812	79,469	1,254,92
July 1, 2026	1,254,929	2,915,131	2,915,131	0	125,000	63,698	89,515	1,408,14
July 1, 2027	1,408,142	3,051,640	3,051,640	0	130,000	61,201	100,101	1,569,44
July 1, 2028	1,569,444	3,226,143	3,226,143	0	135,000	58,580	111,237	1,739,26
July 1, 2029	1,739,261	3,420,877	3,439,512	0	140,000	55,689	122,951	1,899,26
July 1, 2030	1,899,266	3,565,632	3,615,078	0	145,000	52,864	133,999	2,036,68
July 1, 2031	2,036,683	3,731,597	3,825,359	0	150,000	49,654	143,511	2,136,08
July 1, 2032	2,136,086	3,921,655	4,074,246	0	155,000	46,703	150,437	2,180,63
July 1, 2033	2,180,635	4,048,189	4,273,069	0	160,000	43,772	153,634	2,153,16
July 1, 2034	2,153,161	4,197,907	4,482,498	0	165,000	40,579	151,933	2,061,08
July 1, 2035	2,061,082	4,285,285	4,639,033	0	170,000	37,786	145,839	1,890,95
July 1, 2036	1,890,959	4,362,419	4,794,230	0	175,000	35,016	134,437	1,628,60
July 1, 2037	1,628,601	4,420,266	4,922,794	0	180,000	32,109	116,764	1,274,94
July 1, 2038	1,274,946	4,490,003	5,070,562	0	185,000	29,495	92,883	816,76
July 1, 2039	816,765	4,552,733	5,238,978	0	190,000	26,617	61,894	219,03
July 1, 2040	219,031	4,607,607	5,434,062	0	195,000	24,075	21,415	45,49
July 1, 2041	45,490	4,660,096	5,661,723	0	200,000	21,640	9,781	31,42
July 1, 2042	31,421	4,765,563	5,978,842	0	205,000	19,623	8,992	28,61
July 1, 2043	28,615	4,786,868	6,247,890	0	210,000	17,784	8,968	26,75
July 1, 2043	26,752	4,758,597	6,438,695	0	215,000	15,837	9,009	24,84
July 1, 2045	24,846	4,837,211	6,760,048	0	220,000	14,174	9,047	23,22
July 1, 2046	23,221	4,889,393	7,079,818	0	225,000	12,617	9,103	21,72
July 1, 2040	21,720	4,877,039	7,323,701	0	230,000	11,022	9,165	20,19
July 1, 2048	20,190	4,899,738	7,622,127	0	235,000	9,522	9,232	18,75
July 1, 2048 July 1, 2049	18,754	4,914,670	7,949,779	0	240,000	8,264	9,301	17,56
July 1, 2049 July 1, 2050	17,565	4,944,459	8,324,261	0	245,000	7,076	9,387	16,46
July 1, 2050 July 1, 2051	16,463	4,944,439	8,686,836	0	243,000	5,996	9,480	15,47
July 1, 2051 July 1, 2052	15,476	4,924,938	9,099,073	0	255,000	4,903	9,580	13,47
July 1, 2052 July 1, 2053	14,483	4,924,938	9,503,116	0	260,000	3,958	9,580	14,40
July 1, 2053 July 1, 2054	13,637	4,818,068	9,909,873	0	265,000	3,209	9,789	12,99
	12,998			0	270,000	2,504	,	12,99
July 1, 2055 July 1, 2056	12,998	4,787,113 4,666,790	10,372,452 10,778,001	0	270,000 275,000	2,504	9,913 10,041	12,41 11,91



#### EXHIBIT A

#### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

	I. Beginning	II. Portion of						VIII. Ending
For the Period	Fiduciary Net	Employer				VI. Contributions		Fiduciary Net
Ending on the	Position for	Contributions for	III. Total	IV.	V. Total	to Trust for		Position for
Measurement	Current Plan	Current Plan	Benefit	Administrative	<b>Contributions to</b>	Current Plan	VII. Investment	Current Plan
Date	Members	Members	Payments	Expense	Trust	Members	Earnings	Members
July 1, 2057	11,912	4,627,211	11,286,973	0	280,000	1,348	10,173	11,52
July 1, 2058	11,521	4,516,204	11,743,380	0	285,000	928	10,314	11,24
July 1, 2059	11,242	4,420,491	12,267,754	0	290,000	686	10,462	11,14
July 1, 2060	11,148	4,309,452	12,816,392	0	295,000	479	10,623	11,10
July 1, 2061	11,102	4,228,761	13,436,075	0	300,000	323	10,787	11,11
July 1, 2062	11,110	4,101,678	14,057,321	0	305,000	139	,	11,09
July 1, 2063	11,094	3,963,516	14,715,177	0	310,000	78	11,121	11,19
July 1, 2064	11,199	3,851,326	15,434,334	0	315,000	21	11,295	11,31
July 1, 2065	11,316	3,707,554	16,167,493	0	320,000	6	,	11,47
July 1, 2066	11,477	3,581,327	16,963,395	0	325,000	0	11,649	11,64
July 1, 2067	11,649	3,448,824	17,792,266	0	330,000	0	11,828	11,82
July 1, 2068	11,828	3,311,614	18,664,303	0	335,000	0	,	12,00
July 1, 2069	12,007	3,171,131	19,582,410	0	340,000	0	12,186	12,18
July 1, 2070	12,186	3,027,741	20,550,501	0	345,000	0	12,366	12,36
July 1, 2071	12,366	2,882,921	21,571,564	0	350,000	0	12,545	12,54
July 1, 2072	12,545	2,736,983	22,649,685	0	355,000	0	, -	12,72
July 1, 2073	12,725	2,591,173	23,788,258	0	360,000	0	,	12,90
July 1, 2074	12,904	2,445,578	24,987,938	0	365,000	0	13,083	13,08
July 1, 2075	13,083	2,301,087	26,250,347	0	370,000	0	,	13,26
July 1, 2076	13,263	2,157,295	27,580,888	0	375,000	0	13,442	13,44
July 1, 2077	13,442	2,015,315	28,980,871	0	380,000	0	13,622	13,62
July 1, 2078	13,622	1,875,296	30,453,071	0	385,000	0		13,80
July 1, 2079	13,801	1,737,517	32,001,385	0	390,000	0	13,980	13,98
July 1, 2080	13,980	1,602,431	33,633,339	0	395,000	0	14,160	14,16
July 1, 2081	14,160	1,470,692	35,352,253	0	400,000	0	14,339	14,33
July 1, 2082	14,339	1,342,642	37,162,354	0	405,000	0	14,519	14,51
July 1, 2083	14,519	1,218,817	39,071,529	0	410,000	0	14,698	14,69
July 1, 2084	14,698	1,099,382	41,084,602	0	415,000	0	14,877	14,87
July 1, 2085	14,877	985,052	43,205,012	0	420,000	0	15,057	15,05
July 1, 2086	15,057	875,985	45,441,324	0	425,000	0	15,236	15,23
July 1, 2087	15,236	773,307	47,799,569	0	430,000	0	15,416	15,41
July 1, 2088	15,416	676,990	50,284,637	0	435,000	0	15,595	15,59
July 1, 2089	15,595	587,552	52,903,316	0	440,000	0	15,774	15,77
July 1, 2090	15,774	505,604	55,665,985	0	445,000	0	15,954	15,95
July 1, 2091	15,954	430,632	58,578,055	0	450,000	0	16,133	16,13
July 1, 2092	16,133	363,364	61,647,609	0	455,000	0	16,313	16,31
July 1, 2093	16,313	303,095	64,883,572	0	460,000	0	16,492	16,49
July 1, 2094	16,492	250,517	68,294,912	0	465,000	0	16,671	16,67
July 1, 2095	16,671	204,177	71,887,469	0	470,000	0		16,85



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#### EXHIBIT A

#### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

#### 20. PLAN PROJECTION DISCLOSURES (CONTINUED)

	Actuaria	l Present Va	lues of Projected B	enefit Payment	s using a July 1, 20	17 Valuation Date	
For the Period Ending on the	Beginning Fiduciary Net Position for		Funded Portion	Unfunded Portion of	Present Value of	Present Value of	Present Value of Benefit Payments using Single
Measurement	Current Plan	Benefit	of Benefit	Benefit	Funded Benefit	Unfunded Benefit	Equivalent Discount
Date	Members	Payments	Payments	Payments	Payments	Payments	Rate
July 1, 2017	190,985	1,759,835	190,985	1,568,850	190,985	1,568,850	1,759,835
July 1, 2018	291,612	2,058,950	291,612	1,767,338	273,045	1,713,733	1,990,509
July 1, 2019	386,019	2,133,176	386,019	1,747,157	338,428	1,642,779	1,993,716
July 1, 2020	491,020	2,247,612	491,020	1,756,592	403,075	1,601,555	2,030,843
July 1, 2021	601,669	2,333,221	601,669	1,731,552	462,458	1,530,841	2,038,117
July 1, 2022	718,398	2,412,915	718,398	1,694,517	517,022	1,452,661	2,037,669
July 1, 2023	841,822	2,509,217	841,822	1,667,395	567,274	1,386,055	2,048,557
July 1, 2024	972,002	2,641,677	972,002	1,669,675	613,294	1,345,852	2,085,009
July 1, 2025	1,109,648	2,801,280	1,109,648	1,691,632	655,564	1,322,193	2,137,485
July 1, 2026	1,254,929	2,915,131	1,254,929	1,660,202	694,189	1,258,270	2,150,418
July 1, 2027	1,408,142	3,051,640	1,408,142	1,643,498	729,347	1,207,829	2,176,289
July 1, 2028	1,569,444	3,226,143	1,569,444	1,656,699	761,136	1,180,602	2,224,258
July 1, 2029	1,739,261	3,420,877	1,739,261	1,681,616	789,787	1,162,012	2,280,118
July 1, 2030	1,899,266	3,565,632	1,899,266	1,666,366	807,532	1,116,549	2,297,602
July 1, 2031	2,036,683	3,731,597	2,036,683	1,694,914	810,823	1,101,232	2,324,616
July 1, 2032	2,136,086	3,921,655	2,136,086	1,785,569	796,251	1,124,945	2,361,806
July 1, 2033	2,180,635	4,048,189	2,180,635	1,867,554	761,102	1,140,910	2,356,969
July 1, 2034	2,153,161	4,197,907	2,153,161	2,044,746	703,664	1,211,271	2,362,894
July 1, 2035	2,061,082	4,285,285	2,061,082	2,224,203	630,685	1,277,615	2,331,898
July 1, 2036	1,890,959	4,362,419	1,890,959	2,471,460	541,787	1,376,584	2,294,962
July 1, 2037	1,628,601	4,420,266	1,628,601	2,791,665	436,908	1,507,773	2,248,096
July 1, 2038	1,274,946	4,490,003	1,274,946	3,215,057	320,255	1,683,779	2,207,656
July 1, 2039	816,765	4,552,733	816,765	3,735,968	192,101	1,897,244	2,164,090
July 1, 2040	219,031	4,607,607	219,031	4,388,576	48,235	2,161,063	2,117,370
July 1, 2041	45,490	4,660,096	45,490	4,614,606	9,380	2,203,444	2,070,306
July 1, 2042	31,421	4,765,563	31,421	4,734,142	6,067	2,191,958	2,046,785
July 1, 2043	28,615	4,786,868	28,615	4,758,253	5,173	2,136,300	1,987,595
July 1, 2044	26,752	4,758,597	26,752	4,731,845	4,528	2,060,007	1,910,177
July 1, 2045	24,846	4,837,211	24,846	4,812,365	3,938	2,031,517	1,877,189
July 1, 2046	23,221	4,889,393	23,221	4,866,172	3,446	1,991,925	1,834,367
July 1, 2047	21,720	4,877,039	21,720	4,855,319	3,018	1,927,201	1,768,911
July 1, 2048	20,190	4,899,738	20,190	4,879,548	2,627	1,878,073	1,718,070
July 1, 2049	18,754	4,914,670	18,754	4,895,916	2,285	1,827,218	1,666,022
July 1, 2050	17,565	4,944,459	17,565	4,926,894	2,004	1,783,008	1,620,404
July 1, 2051	16,463	4,927,995	16,463	4,911,532	1,758	1,723,537	1,561,325
July 1, 2052	15,476	4,924,938	15,476	4,909,462	1,548	1,670,557	1,508,489
July 1, 2053	14,483	4,873,772	14,483	4,859,289	1,356	1,603,333	1,443,194
July 1, 2054	13,637	4,818,068	13,637	4,804,431	1,196	1,537,151	1,379,275
July 1, 2055	12,998	4,787,113	12,998	4,774,115	1,067	1,481,123	1,324,860
July 1, 2056	12,417	4,666,790	12,417	4,654,373	954	1,400,178	1,248,627



#### EXHIBIT A

#### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

### 20. PLAN PROJECTION DISCLOSURES (CONTINUED)

For the Period	Beginning Fiduciary Net			Unfunded			Present Value of Benefit Payments
Ending on the	Position for		Funded Portion	Portion of	Present Value of	Present Value of	using Single
Measurement	Current Plan	Benefit	of Benefit	Benefit	Funded Benefit	Unfunded Benefit	Equivalent Discount
Date	Members	Payments	Payments	Payments	Payments	Payments	Rate
July 1, 2057	11,912	4,627,211	11,912	4,615,299	857	1,346,311	1,196,884
July 1, 2058	11,521	4,516,204	11,521	4,504,683	776	1,274,188	1,129,340
July 1, 2059	11,242	4,420,491	11,242	4,409,249	709	1,209,365	1,068,661
July 1, 2060	11,148	4,309,452	11,148	4,298,304	659	1,143,177	1,007,187
July 1, 2061	11,102	4,228,761	11,102	4,217,659	614	1,087,706	955,475
July 1, 2062	11,110	4,101,678	11,110	4,090,568	575	1,022,934	895,955
July 1, 2063	11,094	3,963,516	11,094	3,952,422	538	958,409	836,996
July 1, 2064	11,199	3,851,326	11,199	3,840,127	509	902,935	786,269
July 1, 2065	11,316	3,707,554	11,316	3,696,238	481	842,742	731,757
July 1, 2066	11,477	3,581,327	11,477	3,569,850	457	789,239	683,348
July 1, 2067	11,649	3,448,824	11,649	3,437,175	434	736,858	636,190
July 1, 2068	11,828	3,311,614	11,828	3,299,786	413	685,948	590,574
July 1, 2069	12,007	3,171,131	12,007	3,159,124	392	636,790	546,722
July 1, 2070	12,186	3,027,741	12,186	3,015,555	373	589,414	504,649
July 1, 2071	12,366	2,882,921	12,366	2,870,555	354	544,055	464,539
July 1, 2072	12,545	2,736,983	12,545	2,724,438	337	500,699	426,363
July 1, 2073	12,725	2,591,173	12,725	2,578,448	320	459,497	390,232
July 1, 2074	12,904	2,445,578	12,904	2,432,674	304	420,370	356,062
July 1, 2075	13,083	2,301,087	13,083	2,288,004	288	383,379	323,889
July 1, 2076	13,263	2,157,295	13,263	2,144,032	273	348,358	293,556
July 1, 2077	13,442	2,015,315	13,442	2,001,873	260	315,395	265,120
July 1, 2078	13,622	1,875,296	13,622	1,861,674	246	284,411	238,500
July 1, 2079	13,801	1,737,517	13,801	1,723,716	234	255,347	213,631
July 1, 2080	13,980	1,602,431	13,980	1,588,451	222	228,172	190,473
July 1, 2081	14,160	1,470,692	14,160	1,456,532	210	202,877	169,003
July 1, 2082	14,339	1,342,642	14,339	1,328,303	199	179,405	149,160
July 1, 2083	14,519	1,218,817	14,519	1,204,298	189	157,723	130,902
July 1, 2084	14,698	1,099,382	14,698	1,084,684	179	137,749	114,150
July 1, 2085	14,877	985,052	14,877	970,175	170	119,470	98,879
July 1, 2086	15,057	875,985	15,057	860,928	161	102,801	85,008
July 1, 2087	15,236	773,307	15,236	758,071	152	87,774	72,550
July 1, 2088	15,416	676,990	15,416	661,574	144	74,277	61,402
July 1, 2089	15,595	587,552	15,595	571,957	137	62,268	51,519
July 1, 2090	15,774	505,604	15,774	489,830	129	51,710	42,860
July 1, 2091	15,954	430,632	15,954	414,678	123	42,448	35,291
July 1, 2092	16,133	363,364	16,133	347,231	116	34,466	28,788
July 1, 2092	16,313	303,095	16,313	286,782	110	27,603	23,215
July 1, 2093	16,492	250,517	16,492	234,025	104	21,842	18,550
July 1, 2094	16,671	204,177	16,671	187,506	98	16,969	14,616



## EXHIBIT A

#### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

# 21. CHANGES TO NET OPEB EXPENSE

			& actua	l experience				
	Differences							
	between actual &							
Fiscal	expected	Recognition						
Year	experience	Period (years)	<u>2018 </u>	<u>2019</u>	<u>2020                                  </u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
2010								
2011								
2012								
2013								
2014								
2015								
2016								
2017								
2018 2019	3,558,805	5.47	650,604	650,604	650,604	650,604	650,604	305,78



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West Coast 1350 E. Flamingo Road, Suite 254 Las Vegas, NV 89119 (702) 979-2880

### EXHIBIT A

#### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

#### 21. CHANGES TO NET OPEB EXPENSE (CONTINUED)

Fiscal Year	Differences from changes in Actuarial Assumptions	Recognition Period (years)	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	2022	<u>2023</u>
2010								
2011								
2012								
2013								
2014								
2015								
2016								
2017								
2018	0	5.47	0	0	0	0	0	0
2019								
ot incros	se (decrease) in OPEB	ovpopço	0	0	0	0	0	0



#### EXHIBIT A

#### FINANCIAL STATEMENT DISCLOSURE (As of the July 1, 2017 Measurement Date) (continued)

#### 21. CHANGES TO NET OPEB EXPENSE (CONTINUED)

Deferr	ed (Inflows)/Outflov		se arising fror rnings on OPE	-		ences betwee	n Projected &	Actual
Fiscal Year	Differences between actual & expected earnings		<u>2018</u>	<u>2019</u>	<u>2020                                  </u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
2010								
2011								
2012								
2013								
2014								
2015								
2016								
2017								
2018	(4,965)	5.00	(993)	(993)	(993)	(993)	(993)	0
2019	5,857	5.00		<u>1,171</u>	<u>1,171</u>	<u>1,171</u>	<u>1,171</u>	<u>1,173</u>
Net increa	se (decrease) in OPEB e	expense	(993)	178	178	178	178	1,173



# EXHIBIT A

# REQUIRED SUPPLEMENTARY INFORMATION (As of the July 1, 2017 Measurement Date)

#### Notes to Required Supplementary Information:

Valuation Date:	Actuarially Determined Contribution was calculated as of July 1, 2017.
Actuarial Cost Method:	Individual Entry Age Normal
Asset-Valuation Method:	Market Value of Assets as of the Measurement Date, July 1, 2017.
Actuarial Assumptions:	
Investment Rate of Return:	6.80%, net of OPEB plan investment expense, including inflation.
Municipal Bond Rate	3.13% as of July 1, 2017 (source: S&P Municipal Bond 20-Year High Grade Index - SAPIHG)
Single Equivalent Discount Rate:	3.50%, net of OPEB plan investment expense, including inflation.
Inflation:	2.75% as of July 1, 2017 and for future periods
Salary Increases:	3.00% annually as of July 1, 2017 and for future periods
Cost of Living Adjustment:	Not Applicable
Pre-Retirement Mortality:	RP-2000 Employees Mortality Table projected generationally with scale BB and a base year 2009 for males and females
Post-Retirement Mortality:	RP-2000 Healthy Annuitant Mortality Table projected generationally with scale BB and a base year 2009 for males and females



# EXHIBIT B

#### REQUIRED SUPPLEMENTARY INFORMATION (As of the July 1, 2017 Measurement Date) (continued)

## Notes to Required Supplementary Information (Continued):

**Disabled Mortality:** 

RP-2000 Healthy Annuitant Table projected generationally with Scale BB and a base year 2012 for males and females

Plan Membership

Plan Membership: At July 1, 2017, OPEB plan membership consisted of the following

Inactive employees or beneficiaries currently receiving benefits:	416
Active Employees:	<u>440</u>
Total:	856

<u>Changes in Assumptions:</u> Effective July 1, 2017

• None.



# EXHIBIT B

#### REQUIRED SUPPLEMENTARY INFORMATION (As of the July 1, 2017 Measurement Date) (continued)

Deferred Outflows of Resources and Deferred Inflows of Resources Arising between Expected & Actual Experience									
				Balances at Jun	ne 30, 2018				
Fiscal Year	Experience Losses	Experience Gains	Amounts recognized in OPEB Expense through June 30, 2018	Deferred Outflows of Resources	Deferred Inflows of Resources				
2009				0	0				
2010				0	0				
2011				0	0				
2012				0	0				
2013				0	0				
2014				0	0				
2015				0	0				
2016				0	0				
2017				0	0				
2018	3,558,805	0	650,604	2,908,201	0				
Total				2,908,201	0				



# EXHIBIT B

# REQUIRED SUPPLEMENTARY INFORMATION (As of the July 1, 2017 Measurement Date)

(continued)

				Balances at June	2 30, 2018	
Fiscal Year	Increase in the Total OPEB Liability	Decrease in the Total OPEB Liability	Amounts recognized in OPEB Expense through June 30, 2018	Deferred Outflows of Resources	Deferred Inflows of Resources	
2009				0	C	
2010				0	C	
2011				0	(	
2012				0	(	
2013				0	(	
2014				0	(	
2015				0	(	
2016				0	(	
2017				0	(	
2018	0	0	0	0		



# EXHIBIT B

# REQUIRED SUPPLEMENTARY INFORMATION (As of the July 1, 2017 Measurement Date)

(continued)

Deferred Outflows of Resources and Deferred Inflows of Resources between Projected & Actual Earnings on OPEB Plan Investments									
				Balances at June	e 30, 2018				
Fiscal Year	Increase in the Total OPEB Liability	Decrease in the Total OPEB Liability	Amounts recognized in OPEB Expense through June 30, 2018	Deferred Outflows of Resources	Deferred Inflows of Resources				
2009				0	0				
2010				0	0				
2011				0	0				
2012				0	0				
2013				0	0				
2014				0	0				
2015				0	0				
2016				0	0				
2017				0	0				
2018	0	(4,965)	(993)	0	(3,972)				
Total				0	(3,972)				



# EXHIBIT B

# REQUIRED SUPPLEMENTARY INFORMATION (As of the July 1, 2017 Measurement Date)

(continued)

OPEB Expense and Deferred Outflows of Resources and Deferred Inflows of Resources related to OPEB as of June 30, 2018								
	Deferred Outflows of Resources	Deferred Inflows of Resources						
I. Differences between actual & expected experience	2,908,201	0						
II. Changes of assumptions	0	0						
III. Net difference between projected & actual earnings on OPEB plan investments	<u>0</u>	<u>(3,972)</u>						
IV. Total [I.+II.+III.]	2,908,201	(3,972)						
Year ended June 30:								
2019	649,611							
2020	649,611							
2021	649,611							
2022	649,611							
2023	305,785							
Thereafter	0							



# EXHIBIT B

#### REQUIRED SUPPLEMENTARY INFORMATION (As of the July 1, 2017 Measurement Date) (continued)

## Notes to Required Supplementary Information (Continued):

#### Contributions:

The contribution requirements of plan members and the Town are established and may be amended through Town ordinances. The Town contributed \$80,000 beyond the pay-as-you-go cost for the period ending on the July 1, 2017 Measurement Date. For the year ending on the July 1, 2017 Measurement Date total Town premiums plus implicit costs for the retiree medical program were \$1,759,835.



# EXHIBIT C

#### PLAN DEMOGRAPHICS (As of the July 1, 2017 Valuation Date)

#### **ACTIVE EMPLOYEES**

Valuation Date	<b>July 1, 2017</b>	<u>July 1, 2015</u>
A. Average Age at Hire	33.30	33.68
B. Average Service	<u>10.98</u>	<u>10.75</u>
C. Average Current Age	44.28	44.43

#### **RETIRED EMPLOYEES & DEPENDENTS**

	<u>July 1, 2017</u>	<u>July 1, 2015</u>
I. Retirees		
A. Under Age 65	72	70
B. Age 65 & Over	<u>310</u>	<u>281</u>
C. Total Retirees	382	351
II. Dependents of Retirees		
A. Under Age 65	27	21
B. Age 65 & Over	<u>7</u>	<u>7</u>
C. Total Retirees	34	28
III. Retirees & Dependents		
A. Under Age 65	99	91
B. Age 65 & Over	<u>317</u>	<u>288</u>
C. Total Retirees	416	379



#### EXHIBIT D

# PROJECTED CASH FLOWS (OPEN GROUP)

Total Medical, Dental & Life Insurance - Funding - 3.50% discount rate

For the Fiscal Year	Period Ending on the Measurement Date of:	I. Total OPEB Liability ("TOL") as of Measurement Date	II. Fiduciary Net Position as of Measurement Date with expected 6.80% return	III. Net OPEB Liability (Asset) [I II.]	IV. Funded Ratio [II. / I]	V. Service Cost	VI. Employer Share of Premiums / Claims	VII. Excess Employer Payments (beyond claims)	VIII. Total Employer Payments [VI. + VII.]
2018	July 1, 2017	69,594,916	291,612	69,303,304	0.42%	2,387,415	1,759,835	80,000	1,839,835
2019	July 1, 2018	72,237,599	393,427	71,844,172	0.54%	2,220,701	2,055,896	85,000	2,140,896
2020	July 1, 2019	75,099,075	513,190	74,585,885	0.68%		2,071,229	90,000	2,161,229
2021	July 1, 2020	78,196,338	646,264	77,550,074	0.83%	2,488,604	2,155,817	95,000	2,250,817
2022	July 1, 2021	81,334,490	793,554	80,540,936	0.98%	2,627,040	2,286,994	100,000	2,386,994
2023	July 1, 2022	84,608,653	956,027	83,652,626	1.13%	2,774,235	2,398,279	105,000	2,503,279
2024	July 1, 2023	88,037,166	1,134,715	86,902,451	1.29%	2,934,315	2,509,217	110,000	2,619,217
2025	July 1, 2024	91,596,106	1,330,721	90,265,385	1.45%	3,090,769	2,641,677	115,000	2,756,677
2026	July 1, 2025	95,275,725	1,545,223	93,730,502	1.62%	3,270,137	2,801,280	120,000	2,921,280
2027	July 1, 2026	99,136,862	1,779,478	97,357,384	1.79%	3,442,715	2,915,131	125,000	3,040,131
2028	July 1, 2027	103,180,012	2,034,830	101,145,182	1.97%	3,641,282	3,051,640	130,000	3,181,640
2029	July 1, 2028	107,361,374	2,312,713	105,048,661	2.15%	3,836,409	3,226,143	135,000	3,361,143
2030	July 1, 2029	111,643,157	2,614,659	109,028,498	2.34%	4,037,302	3,439,512	140,000	3,579,512
2031	July 1, 2030	116,091,770	2,942,305	113,149,465	2.53%	4,252,908	3,615,078	145,000	3,760,078
2032	July 1, 2031	120,689,199	3,297,398	117,391,801	2.73%	4,491,375	3,825,359	150,000	3,975,359
2033	July 1, 2032	125,380,644	3,681,804	121,698,840	2.94%	4,727,946	4,074,246	155,000	4,229,246
2034	July 1, 2033	130,253,077	4,097,517	126,155,560	3.15%	4,994,610	4,273,069	160,000	4,433,069
2035	July 1, 2034	135,320,729	4,546,666	130,774,063	3.36%	5,267,288	4,482,498	165,000	4,647,498
2036	July 1, 2035	140,663,909	5,031,524	135,632,385	3.58%	5,539,984	4,639,033	170,000	4,809,033
2037	July 1, 2036	146,315,743	5,554,520	140,761,223	3.80%	5,845,728	4,794,230	175,000	4,969,230
2038	July 1, 2037	152,334,022	6,118,247	146,215,775	4.02%	6,159,664	4,922,794	180,000	5,102,794
2039	July 1, 2038	158,746,731	6,725,474	152,021,257	4.24%	6,484,722	5,070,562	185,000	5,255,562
2040	July 1, 2039	165,428,535	7,379,160	158,049,375	4.46%	6,833,445	5,238,978	190,000	5,428,978
2041	July 1, 2040	172,500,389	8,082,464	164,417,925	4.69%	7,187,111	5,434,062	195,000	5,629,062
2042	July 1, 2041	180,049,080	8,838,760	171,210,320	4.91%	7,586,721	5,661,723	200,000	5,861,723
2043	July 1, 2042	188,004,030	9,651,651	178,352,379	5.13%	7,995,775	5,978,842	205,000	6,183,842
2044	July 1, 2043	196,344,052	10,524,986	185,819,066	5.36%	8,426,341	6,247,890	210,000	6,457,890
2045	July 1, 2044	205,214,716	11,462,875	193,751,841	5.59%	8,875,412	6,438,695	215,000	6,653,695
2046	July 1, 2045	214,509,706	12,469,707	202,039,999	5.81%	9,348,678	6,760,048	220,000	6,980,048
2047	July 1, 2046	224,315,661	13,550,171	210,765,490	6.04%	9,853,184	7,079,818	225,000	7,304,818
2048	July 1, 2047	234,702,889	14,709,274	219,993,615	6.27%	10,378,068	7,323,701	230,000	7,553,701
2049	July 1, 2048	245,713,224	15,952,363	229,760,861	6.49%	10,925,530	7,622,127	235,000	7,857,127



### EXHIBIT D

#### PROJECTED CASH FLOWS (OPEN GROUP)

#### Total Medical, Dental & Life Insurance - 7.00% discount rate increasing at 0.00% per year

For the Fiscal Year	Period Ending on the Measurement Date of:	I. Total OPEB Liability ("TOL") as of Measurement Date	II. Fiduciary Net Position as of Measurement Date with expected 6.80% return	III. Net OPEB Liability (Asset) ("NOL") [I II.]	IV Funded Ratio [II. / I.]	V. Service Cost	VI. Employer Share of Premiums / Claims	VII. Annual Funding / (Payments)	VIII. Total Employer Payments [VI. + VII.]
2018	July 1, 2017	42,289,407	291,612	41,997,795	0.69%	919,439	1,759,835	80,000	1,839,835
2019	July 1, 2018	43,964,958	393,427	43,571,531	0.89%	855,234	2,055,896	1,675,566	3,731,462
2020	July 1, 2019	45,806,395	2,151,778	43,654,617	4.70%	915,987	2,071,229	1,675,566	3,746,795
2021	July 1, 2020	47,747,223	4,029,697	43,717,526	8.44%	972,996	2,155,817	1,675,566	3,831,383
2022	July 1, 2021	49,747,201	6,035,315	43,711,886	12.13%	1,032,480	2,286,994	1,675,566	3,962,560
2023	July 1, 2022	51,834,885	8,177,315	43,657,570	15.78%	1,094,897	2,398,279	1,675,566	4,073,845
2024	July 1, 2023	54,022,152	10,464,971	43,557,181	19.37%	1,162,323	2,509,217	1,675,566	4,184,783
2025	July 1, 2024	56,290,972	12,908,187	43,382,785	22.93%	1,227,911	2,641,677	1,675,566	4,317,243
2026	July 1, 2025	58,628,205	15,517,542	43,110,663	26.47%	1,303,023	2,801,280	1,675,566	4,476,846
2027	July 1, 2026	61,083,782	18,304,333	42,779,449	29.97%	1,374,572	2,915,131	1,675,566	4,590,697
2028	July 1, 2027	63,653,252	21,280,626	42,372,626	33.43%	1,457,231	3,051,640	1,675,566	4,727,206
2029	July 1, 2028	66,302,509	24,459,307	41,843,202	36.89%	1,538,384	3,226,143	1,675,566	4,901,709
2030	July 1, 2029	68,997,730	27,854,138	41,143,592	40.37%	1,620,863	3,439,512	1,675,566	5,115,078
2031	July 1, 2030	71,787,988	31,479,818	40,308,170	43.85%	1,708,925	3,615,078	1,675,566	5,290,644
2032	July 1, 2031	74,653,049	35,352,044	39,301,005	47.36%	1,806,575	3,825,359	1,675,566	5,500,925
2033	July 1, 2032	77,550,849	39,487,581	38,063,268	50.92%	1,902,671	4,074,246	1,675,566	5,749,812
2034	July 1, 2033	80,545,528	43,904,335	36,641,193	54.51%	2,011,449	4,273,069	1,675,566	5,948,635
2035	July 1, 2034	83,642,597	48,621,428	35,021,169	58.13%	2,122,956	4,482,498	1,675,566	6,158,064
2036	July 1, 2035	86,904,827	53,659,283	33,245,544	61.74%	2,233,598	4,639,033	1,675,566	6,314,599
2037	July 1, 2036	90,352,015	59,039,713	31,312,302	65.34%	2,357,751	4,794,230	1,675,566	6,469,796
2038	July 1, 2037	94,027,868	64,786,012	29,241,856	68.90%	2,485,185	4,922,794	1,675,566	6,598,360
2039	July 1, 2038	97,953,292	70,923,059	27,030,233	72.40%	2,617,119	5,070,562	1,675,566	6,746,128
2040	July 1, 2039	102,050,024	77,477,425	24,572,599	75.92%	2,758,315	5,238,978	1,675,566	6,914,544
2041	July 1, 2040	106,387,569	84,477,488	21,910,081	79.41%	2,901,211	5,434,062	1,675,566	7,109,628
2042	July 1, 2041	111,003,118	91,953,556	19,049,562	82.84%	3,062,727	5,661,723	1,675,566	7,337,289
2043	July 1, 2042	115,829,764	99,937,996	15,891,768	86.28%	3,227,839	5,978,842	1,675,566	7,654,408
2044	July 1, 2043	120,878,963	108,465,378	12,413,585	89.73%	3,401,164	6,247,890	1,675,566	7,923,456
2045	July 1, 2044	126,262,030	117,572,622	8,689,408	93.12%	3,581,739	6,438,695	1,675,566	8,114,261
2046	July 1, 2045	131,881,297	127,299,159	4,582,138	96.53%	3,772,139	6,760,048	1,675,566	8,435,614
2047	July 1, 2046	137,787,842	137,687,100	100,742	99.93%	3,974,671	7,079,818	100,742	7,180,560
2048	July 1, 2047	144,052,789	147,153,934	(3,101,145)	102.15%	4,185,030	7,323,701	(3,101,145)	4,222,556
2049	July 1, 2048	150,696,635	153,955,552	(3,258,917)	102.16%	4,404,418	7,622,127	(3,258,917)	4,363,210



## EXHIBIT D

#### PROJECTED CASH FLOWS (OPEN GROUP)

#### Total Medical, Dental & Life Insurance - 7.00% discount rate and increasing at 3.00% per year

For the Fiscal Year	Period Ending on the Measurement Date of:	I. Total OPEB Liability ("TOL") as of Measurement Date	II. Fiduciary Net Position as of Measurement Date with expected 6.80% return	III. Net OPEB Liability (Asset) ("NOL") [I II.]	IV Funded Ratio [II. / I.]	V. Service Cost	VI. Employer Share of Premiums / Claims	VII. Annual Funding / (Payments)	VIII. Total Employer Payments [VI. + VII.]
2018	July 1, 2017	42,289,407	291,612	41,997,795	0.69%	919,439	1,759,835	80,000	1,839,835
2019	July 1, 2018	43,964,958	393,427	43,571,531	0.89%	855,234	2,055,896	1,329,708	3,385,604
2020	July 1, 2019	45,806,395	1,794,355	44,012,040	3.92%	915,987	2,071,229	1,369,599	3,440,828
2021	July 1, 2020	47,747,223	3,331,771	44,415,452	6.98%	972,996	2,155,817	1,410,687	3,566,504
2022	July 1, 2021	49,747,201	5,016,193	44,731,008	10.08%	1,032,480	2,286,994	1,453,008	3,740,002
2023	July 1, 2022	51,834,885	6,858,892	44,975,993	13.23%	1,094,897	2,398,279	1,496,598	3,894,877
2024	July 1, 2023	54,022,152	8,871,942	45,150,210	16.42%	1,162,323	2,509,217	1,541,496	4,050,713
2025	July 1, 2024	56,290,972	11,068,279	45,222,693	19.66%	1,227,911	2,641,677	1,587,741	4,229,418
2026	July 1, 2025	58,628,205	13,461,758	45,166,447	22.96%	1,303,023	2,801,280	1,635,373	4,436,653
2027	July 1, 2026	61,083,782	16,067,219	45,016,563	26.30%	1,374,572	2,915,131	1,684,434	4,599,565
2028	July 1, 2027	63,653,252	18,900,553	44,752,699	29.69%	1,457,231	3,051,640	1,734,967	4,786,607
2029	July 1, 2028	66,302,509	21,978,776	44,323,733	33.15%	1,538,384	3,226,143	1,787,016	5,013,159
2030	July 1, 2029	68,997,730	25,320,108	43,677,622	36.70%	1,620,863	3,439,512	1,840,626	5,280,138
2031	July 1, 2030	71,787,988	28,944,053	42,843,935	40.32%	1,708,925	3,615,078	1,895,845	5,510,923
2032	July 1, 2031	74,653,049	32,871,492	41,781,557	44.03%	1,806,575	3,825,359	1,952,720	5,778,079
2033	July 1, 2032	77,550,849	37,124,774	40,426,075	47.87%	1,902,671	4,074,246	2,011,302	6,085,548
2034	July 1, 2033	80,545,528	41,727,820	38,817,708	51.81%	2,011,449	4,273,069	2,071,641	6,344,710
2035	July 1, 2034	83,642,597	46,706,230	36,936,367	55.84%	2,122,956	4,482,498	2,133,790	6,616,288
2036	July 1, 2035	86,904,827	52,087,399	34,817,428	59.94%	2,233,598	4,639,033	2,197,804	6,836,837
2037	July 1, 2036	90,352,015	57,900,643	32,451,372	64.08%	2,357,751	4,794,230	2,263,738	7,057,968
2038	July 1, 2037	94,027,868	64,177,326	29,850,542	68.25%	2,485,185	4,922,794	2,331,650	7,254,444
2039	July 1, 2038	97,953,292	70,951,007	27,002,285	72.43%	2,617,119	5,070,562	2,401,600	7,472,162
2040	July 1, 2039	102,050,024	78,257,587	23,792,437	76.69%	2,758,315	5,238,978	2,473,648	7,712,626
2041	July 1, 2040	106,387,569	86,135,472	20,252,097	80.96%	2,901,211	5,434,062	2,547,857	7,981,919
2042	July 1, 2041	111,003,118	94,625,744	16,377,374	85.25%	3,062,727	5,661,723	2,624,293	8,286,016
2043	July 1, 2042	115,829,764	103,772,346	12,057,418	89.59%	3,227,839	5,978,842	2,703,022	8,681,864
2044	July 1, 2043	120,878,963	113,622,279	7,256,684	94.00%	3,401,164	6,247,890	2,784,113	9,032,003
2045	July 1, 2044	126,262,030	124,225,810	2,036,220	98.39%	3,581,739	6,438,695	2,036,220	8,474,915
2046	July 1, 2045	131,881,297	134,777,478	(2,896,181)	102.20%	3,772,139	6,760,048	(2,896,181)	3,863,867
2047	July 1, 2046	137,787,842	140,949,315	(3,161,473)	102.29%	3,974,671	7,079,818	(3,161,473)	3,918,345
2048	July 1, 2047	144,052,789	147,266,673	(3,213,884)	102.23%	4,185,030	7,323,701	(3,213,884)	4,109,817
2049	July 1, 2048	150,696,635	153,959,448	(3,262,813)	102.17%	4,404,418	7,622,127	(3,262,813)	4,359,314



#### EXHIBIT D

#### PROJECTED CASH FLOWS (OPEN GROUP)

Town of Norton

OPEB Projection of Funding Annual Service Cost and Impact on Unfunded Obligation

Total Medical, Dental & Life Insurance - Funding Annual Service Cost - 3.50% discount rate

Measurement Date	I. Total OPEB Liability	II. Service Cost	III. Employer Share of Premiums / Claims including "implicit cost"	IV. Funding Service Cost beyond claims	V. Total Funding Costs [III. + IV.]	VI. Present Value at 3.00% of Employer Share of Premiums / Claims including "implicit cost"	VII. Present Value at 3.00% of Funding Service Cost beyond claims	VIII. Present Value at 3.00% of Total Funding Costs [VI. + VII.]	IX. Fiduciary Net Position at Beginning of year	X. Net OPEB Liability (Asset) [I IX.]	XI. Present Value at 3.00% of Net OPEB Liability (Asset)
July 1, 2017	69,594,916	2,387,415	1,759,835	627,580	2,387,415	1,759,835	627,580	2,387,415	291,612	69,303,304	69,303,304
July 1, 2018	72,237,599	2,220,701	2,055,896	164,805	2,220,701	1,996,016	160,005	2,156,021	929,398	71,308,201	69,231,263
July 1, 2019	75,099,075	2,357,801	2,071,229	286,572	2,357,801	1,952,332	270,122	2,222,454	1,126,732	73,972,343	69,726,028
July 1, 2020	78,196,338	2,488,604	2,155,817	332,787	2,488,604	1,972,878	304,547	2,277,425	1,452,740	76,743,598	70,231,264
July 1, 2021	81,334,490	2,627,040	2,286,994	340,046	2,627,040	2,031,965	302,126	2,334,091	1,836,373	79,498,117	70,633,047
July 1, 2022	84,608,653	2,774,235	2,398,279	375,956	2,774,235	2,068,777	324,303	2,393,080	2,240,692	82,367,961	71,051,327
July 1, 2023	88,037,166	2,934,315	2,509,217	425,098	2,934,315	2,101,430	356,013	2,457,443	2,695,072	85,342,094	71,472,660
July 1, 2024	91,596,106	3,090,769	2,641,677	449,092	3,090,769	2,147,925	365,153	2,513,078	3,214,498	88,381,608	71,862,335
July 1, 2025	95,275,725	3,270,137	2,801,280	468,857	3,270,137	2,211,356	370,120	2,581,476	3,776,097	91,499,628	72,230,651
July 1, 2026	99,136,862	3,442,715	2,915,131	527,584	3,442,715	2,234,205	404,349	2,638,554	4,377,117	94,759,745	72,625,454
July 1, 2027	103,180,012	3,641,282	3,051,640	589,642	3,641,282	2,270,707	438,749	2,709,456	5,057,900	98,122,112	73,012,066
July 1, 2028	107,361,374	3,836,409	3,226,143	610,266	3,836,409	2,330,634	440,869	2,771,503	5,824,569	101,536,805	73,352,348
July 1, 2029	111,643,157	4,037,302	3,439,512	597,790	4,037,302	2,412,405	419,278	2,831,683	6,638,695	105,004,462	73,648,017
July 1, 2030	116,091,770	4,252,908	3,615,078	637,830	4,252,908	2,461,692	434,331	2,896,023	7,468,839	108,622,931	73,966,930
July 1, 2031	120,689,199	4,491,375	3,825,359	666,016	4,491,375	2,529,013	440,315	2,969,328	8,368,078	112,321,121	74,257,493
July 1, 2032	125,380,644	4,727,946	4,074,246	653,700	4,727,946	2,615,103	419,585	3,034,688	9,326,977	116,053,667	74,490,433
July 1, 2033	130,253,077	4,994,610	4,273,069	721,541	4,994,610	2,662,835	449,640	3,112,475	10,307,121	119,945,956	74,746,354
July 1, 2034	135,320,729	5,267,288	4,482,498	784,790	5,267,288	2,711,985	474,811	3,186,796	11,389,411	123,931,318	74,980,486
July 1, 2035	140,663,909	5,539,984	4,639,033	900,951	5,539,984	2,724,943	529,214	3,254,157	12,572,830	128,091,079	75,240,009
July 1, 2036	146,315,743	5,845,728	4,794,230	1,051,498	5,845,728	2,734,082	599,655	3,333,737	13,913,830	132,401,913	75,506,961
July 1, 2037	152,334,022	6,159,664	4,922,794	1,236,870	6,159,664	2,725,632	684,825	3,410,457	15,452,312	136,881,710	75,788,084
July 1, 2038	158,746,731	6,484,722	5,070,562	1,414,160	6,484,722	2,725,677	760,181	3,485,858	17,230,013	141,516,718	76,072,209
July 1, 2039	165,428,535	6,833,445	5,238,978	1,594,467	6,833,445	2,734,183	832,140	3,566,323	19,247,223	146,181,312	76,290,931
July 1, 2040	172,500,389	7,187,111	5,434,062	1,753,049	7,187,111	2,753,394	888,255	3,641,649	21,515,343	150,985,046	76,502,877
July 1, 2041	180,049,080	7,586,721	5,661,723	1,924,998	7,586,721	2,785,193	946,971	3,732,164	24,021,429	156,027,651	76,755,265
July 1, 2042	188,004,030	7,995,775	5,978,842	2,016,933	7,995,775	2,855,528	963,298	3,818,826	26,787,177	161,216,853	76,998,067
July 1, 2043	196,344,052	8,426,341	6,247,890	2,178,451	8,426,341	2,897,114	1,010,136	3,907,250	29,741,661	166,602,391	77,252,650
July 1, 2044	205,214,716	8,875,412	6,438,695	2,436,717	8,875,412	2,898,630	1,096,983	3,995,613	32,961,070	172,253,646	77,546,706
July 1, 2045	214,509,706	9,348,678	6,760,048	2,588,630	9,348,678	2,954,660	1,131,430	4,086,090	36,551,424	177,958,282	77,781,428
July 1, 2046	224,315,661	9,853,184	7,079,818	2,773,366	9,853,184	3,004,295	1,176,868	4,181,163	40,419,354	183,896,307	78,035,729
July 1, 2047	234,702,889	10,378,068	7,323,701	3,054,367	10,378,068	3,017,268	1,258,359	4,275,627	44,607,397	190,095,492	78,316,826



#### EXHIBIT D

#### PROJECTED CASH FLOWS (OPEN GROUP)

#### Total Medical, Dental & Life Insurance - Funding

July 1, 2017 416 69,594,916 69,594,916 1,759,835 1,759,835   July 1, 2018 416 72,237,599 70,133,591 2,055,896 1,996,016   July 1, 2020 417 78,196,338 71,560,727 2,155,817 1,972,878   July 1, 2021 419 81,334,490 72,264,641 2,286,994 2,031,965   July 1, 2022 422 84,608,653 72,984,1677 2,398,279 2,166,777   July 1, 2024 428 91,596,106 74,476,016 2,464,1677 2,144,925   July 1, 2024 428 91,596,106 74,476,016 2,464,1677 2,144,925   July 1, 2026 436 99,136,862 75,980,150 2,915,131 2,234,205   July 1, 2027 438 103,180,012 76,775,619 3,051,464 2,270,707   July 1, 2028 441 107,361,374 77,560,141 3,226,143 2,330,634   July 1, 2030 499 116,091,770 79,90,728 3,825,359 2,529,013   July 1, 2031 453	Measurement Date	Number of Retirees, Spouses & Surviving Spouses	Total OPEB Liability	Present Value at 3.00% of Total OPEB Liability	Employer Share of Premiums / Claims including "implicit cost"	Present Value at 3.00% of Employer Share of Premiums / Claims including "implicit cost"
July 1, 201841672,237,59970,133,5912,055,8961,996,016July 1, 201941675,099,07570,788,0812,071,2291,352,332July 1, 202141981,334,49072,264,6412,286,9942,031,965July 1, 202242284,608,65372,984,1672,398,2792,068,777July 1, 202342588,037,16673,722,7122,101,430July 1, 202442891,596,10674,476,0162,641,6772,147,925July 1, 202543195,275,72575,211,5372,801,2802,211,356July 1, 202643699,136,86275,980,1502,915,1312,234,205July 1, 2027438103,180,01276,775,6193,051,6402,270,707July 1, 2028441107,361,37477,830,2643,439,5122,441,2405July 1, 2029445111,643,15778,304,2643,439,5122,461,692July 1, 2031453120,689,19979,789,7783,825,3592,250,013July 1, 2031453120,689,19979,789,7783,825,3592,250,013July 1, 2034460135,320,72981,871,2674,482,4982,711,985July 1, 2035462146,63,90982,625,2224,639,0332,724,943July 1, 2034460135,320,72981,871,2674,482,4982,714,082July 1, 2034460135,320,72981,871,2674,482,4982,711,985July 1, 2034462146,63,90982,625,222	July 1, 2017	416	69,594,916	69,594,916	1,759,835	1,759,835
July 1, 2019 416 75,099,075 70,788,081 2,071,229 1,952,332   July 1, 2020 417 78,196,338 71,560,727 2,155,817 1,972,878   July 1, 2021 422 84,608,653 72,984,167 2,398,279 2,066,777   July 1, 2023 425 88,037,166 73,729,741 2,509,217 2,101,430   July 1, 2024 428 91,596,106 74,476,016 2,641,677 2,147,925   July 1, 2026 431 95,275,725 75,211,537 2,801,500 2,915,131 2,334,205   July 1, 2026 443 107,361,374 77,56,191 3,051,640 2,270,070   July 1, 2029 445 111,691,770 79,052,846 3,615,078 2,461,692   July 1, 2030 449 115,091,770 79,052,846 3,615,078 2,461,692   July 1, 2031 453 120,689,199 79,789,778 3,825,359 2,529,013   July 1, 2032 457 125,380,644 80,477,064 4,074,246 2,661,833   July 1, 2033	•					
July 1, 202041778,196,33871,560,7272,155,8171,972,878July 1, 202141981,334,49072,264,6412,286,9942,031,965July 1, 202242284,608,65372,984,1672,398,2792,066,777July 1, 202342588,037,16673,729,7412,509,2172,101,430July 1, 202442891,596,10674,476,0162,641,6772,147,925July 1, 202543199,275,72575,511,5372,801,2802,211,356July 1, 202643699,136,86275,980,1502,915,1312,234,205July 1, 2027438100,180,12779,756,193,051,6402,270,707July 1, 2028441107,361,37477,560,1413,226,1432,330,634July 1, 203044911,643,15778,304,2643,439,5122,412,405July 1, 2031453120,689,19979,789,7783,825,3592,529,013July 1, 2032457125,380,64480,477,0644,074,2462,615,103July 1, 2033459135,230,72981,871,2674,482,4982,711,985July 1, 2034460135,320,72981,871,2674,482,4982,713,4082July 1, 2035462140,663,90982,625,2224,639,0332,724,943July 1, 2036462140,663,90988,652,2224,639,0332,724,943July 1, 2036462140,615,77383,441,8244,794,2302,736,182July 1, 2034457156,428,535	• •					
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# EXHIBIT E

# GLOSSARY

**Accrual Accounting -** A system of accounting in which revenues are recorded when earned and outlays are recorded when goods are received or services performed, even though the actual receipt of revenues and payment for goods or services may occur, in whole or in part, at a different time.

**Actuarially Determined Contribution –** Amount of funding required annually to fully fund plan benefits. Determined by the actuary using a consistent methodology.

Amortization – Allows the recognition of liability over a fixed period of time.

**Cash Basis Accounting -** A system of accounting in which revenues are recorded when received and outlays are recorded when payment is made.

**Deferred Inflows/Outflows of Resources** – Amounts arising from experience gains and losses that have not been recognized into the OPEB Expense, but will be recognized in the future.

**Discount Rate –** The interest rate used to calculate the present value of future cash flows. Under GASB 75, the rate should be the expected long term rate of return on investments for a plan that is being fully funded, the 20 year municipal bond index for a pay-as-you-go plan, and a blend of the two rates for a plan that is being partially funded.

**Fiduciary Net Position –** The value of cash, investments, other assets and property belonging to an OPEB trust.

**GASB - Government Accounting Standards Board.** "The Governmental Accounting Standards Board (GASB) was organized in 1984 by the Financial Accounting Foundation (FAF) to establish standards of financial accounting and reporting for state and local governmental entities. Its standards guide the preparation of external financial reports of those entities."

**Implicit Subsidy –** The liability that arises because retirees who are not eligible for Medicare are charged the same premium as active employees even though their actual medical costs are higher on average.

**Irrevocable Contribution** – The transfer of assets to a qualified trust in which assets may only be withdrawn for the purpose of providing retiree other post employment benefits.



# EXHIBIT E

#### GLOSSARY (continued)

**Net OPEB Liability (NOL) –** Total OPEB Liability less the Fiduciary Net Position.

**Other Post Employment Benefits (OPEB)** – Benefits that an employee will begin to receive at the start of retirement. This does not include pension benefits paid to the retired employee.

**OPEB Trust** – An entity which holds assets for the sole purpose of funding OPEB. All contributions and earning within this entity must be irrevocable and protected from creditors.

**Pay-as-you-go funding –** Paying benefits (such as pensions or OPEB) on a cash basis, with no money set aside for future liabilities which are already incurred.

**Service Cost -** The actuarially determined present value contribution needed to fund benefits which are earned for employee service rendered during the current year. Service cost depends on many factors, including the interest rate used to discount future cashflows, and expected inflation.

**Total OPEB Liability (TOL)** - That portion, as determined by the Individual Entry Age Normal Actuarial Cost Method, of the Actuarial Present Value of benefits and expenses which are not provided for by future Service Costs.