



BURLINGTON EMPLOYEES' RETIREMENT SYSTEM

GASB 67 AND GASB 68 DISCLOSURE

REPORTING AS OF JUNE 30, 2019 (MEASUREMENT DATE: JUNE 30, 2018)





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All the items listed below are required by GASB 67 and GASB 68 but are not included in this report:

Money Weighted Rate of Return
Schedule of Investment Returns
Statement of Changes in Fiduciary Net Position
Statement of Fiduciary Net Position
Investments That Represent 5% or More of the Plan's Fiduciary Net Position
Target Allocation and Expected Rate of Return
Investment Policy
Pension Board Composition
Authority to Amend Plan

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Certification

This report presents the results of the June 30, 2019 GASB 67 and GASB 68 Disclosure for the Burlington Employees' Retirement System (the Plan). The report is intended to satisfy the requirements of both GASB 67 and GASB 68. This report may not be appropriate for any other purpose.

The report has been performed in accordance with generally accepted actuarial principles and practices. It is intended to comply with the Actuarial Standards Board Standards of Practice.

As required under Part II, Section 24-61 of the Burlington Code of Ordinances, experience studies are performed at least once in every five-year period. This report contains the full set of assumptions and methods used in the current valuation. The assumptions were based on a recent experience study covering the period July 1, 2012 to June 30, 2017. The assumptions were adopted by the Board on the basis of the study.

In our opinion, the actuarial assumptions used in this report are reasonably related to the experience of the Plan and to reasonable long-term expectations.

In preparing this disclosure report, I have relied on employee data provided by the Plan Sponsor, and on asset and contribution information provided by the Plan Sponsor or Trustee. I have audited neither the employee data nor the financial information, although I have reviewed them for reasonableness.

The results in this disclosure report are based on the Plan as summarized in the Summary of Plan Provisions section of this report and the actuarial methods and assumptions detailed in the Description of Actuarial Methods and Procedures and Description of Actuarial Assumptions sections of this report.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to factors such as, but not limited to, the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Due to the limited scope of this report, an analysis of the potential range of such future measurements has not been performed.

I have no relationship with the employer or the Plan that would impair, or appear to impair, my objectivity in performing the work presented in this report. I am a member of the American Academy of Actuaries and meet its Qualification Standards to render the actuarial opinion contained herein.

Steve A. Lemanski, FSA, FCA, MAAA
Enrolled Actuary 17-05506

August 16, 2019



Contributions Compared to ADEC and Payroll Schedule of Contributions Last 3 Fiscal Years

	2018	2017	2016
Actuarially determined employer contribution (ADEC)	\$ 9,172,822	\$ 9,219,098	\$ 9,149,159
Contributions in relation to the ADEC	9,172,822	9,219,098	9,149,159
Contribution deficiency (excess)	\$ -	\$ -	\$ -
Covered payroll	\$ 49,012,028	\$ 45,650,372	\$ 48,107,717
Contributions as a % of covered payroll	18.72%	20.20%	19.02%



Discount Rate Calculation

The long-term expected rate of return on investments may be used to discount liabilities to the extent that the plan's fiduciary net position and future contributions are projected to be sufficient to cover expected benefit payments and administrative expenses for current plan members. Projections of the plan's fiduciary net position incorporate all cash flows for contributions from the employer and employee and administrative expenses. Professional judgment should be applied to the projections of contributions in circumstances where (a) contribution amounts are established by statute or contract or (b) a formal written policy exists. Consideration should also be given to the most recent five-year contribution history as key indicators of future contributions. It should not include cash flows for future plan members.

If the amount of the plan's fiduciary net position is projected to be greater than or equal to the benefit payments and administrative expenses made in that period, the actuarial present value of payments should be discounted using the long-term expected rate of return on those investments. A 20-year, high quality (AA/Aa or higher), tax-exempt municipal bond yield or index rate must be used to discount benefit payments for periods where the fiduciary net position is not projected to cover expected benefit payments and administrative expenses.

Plans that are projected to have sufficient fiduciary net position indefinitely will use the long-term expected return on investments to determine liabilities but will have to substantiate their projected solvency. GASB permits alternative methods to evaluate the sufficiency of the plan's net fiduciary position. Based on the plan's current net pension liability and current contribution policy, the plan's projected fiduciary net position will be sufficient to cover projected benefit payments and administrative expenses indefinitely. Therefore, since the fund is not projected to run out of money, we have used the 7.50% interest rate assumption to discount plan liabilities.



Schedule of Changes in Net Pension Liability and Related Ratios Last 3 Fiscal Years

	2018	2017	2016
Total pension liability			
Service cost	\$ 6,670,326	\$ 5,939,730	\$ 5,327,448
Interest	19,961,295	19,571,180	18,268,523
Changes of benefit terms	(138,534)	-	(414,295)
Differences between expected and actual experience	(1,453,843)	(4,272,574)	6,852,487
Changes of assumptions	(7,508,856)	10,370,856	-
Benefit payments, including refunds of member contributions	(15,616,191)	(14,770,644)	(13,971,175)
Net change in total pension liability	1,914,197	16,838,548	16,062,988
Total pension liability - beginning	262,781,827	245,943,279	229,880,291
Total pension liability - ending: (a)	<u>\$ 264,696,024</u>	<u>\$ 262,781,827</u>	<u>\$ 245,943,279</u>
Plan fiduciary net position			
Contributions - employer	\$ 9,172,822	\$ 9,219,098	\$ 9,149,159
Contributions - member	3,624,939	2,712,823	2,304,971
Net investment income (loss)	16,762,760	21,882,460	(2,088,531)
Benefit payments, including refunds of member contributions	(15,616,191)	(14,770,644)	(13,971,175)
Administrative expenses	(385,309)	(361,811)	(320,908)
Other	(20,278)	-	-
Net change in plan fiduciary net position	13,538,743	18,681,926	(4,926,484)
Plan fiduciary net position - beginning	175,471,299	156,789,373	161,715,857
Plan fiduciary net position - ending: (b)	<u>189,010,042</u>	<u>175,471,299</u>	<u>156,789,373</u>
Net pension liability - ending: (a) - (b)	<u>\$ 75,685,982</u>	<u>\$ 87,310,528</u>	<u>\$ 89,153,906</u>
Plan fiduciary net position as a % of total pension liability	71.41%	66.77%	63.75%
Covered payroll	\$ 49,012,028	\$ 45,650,372	\$ 48,107,717
Net pension liability as a % of covered payroll	154.42%	191.26%	185.32%



Schedule of Net Pension Liability Last 4 Fiscal Years

	2018	2017	2016	2015
Total pension liability	\$ 264,696,024	\$ 262,781,827	\$ 245,943,279	\$ 229,880,291
Plan fiduciary net position	189,010,042	175,471,299	156,789,373	161,715,857
Net pension liability (asset)	\$ 75,685,982	\$ 87,310,528	\$ 89,153,906	\$ 68,164,434
Plan fiduciary net position as a % of total pension liability	71.41%	66.77%	63.75%	70.35%
Covered payroll	\$ 49,012,028	\$ 45,650,372	\$ 48,107,717	\$ 44,765,172
Net pension liability as a % of covered payroll	154.42%	191.26%	185.32%	152.27%



Disclosure Overview as of June 30, 2018

	Plan's Funded Status			Deferred Outflows/(Inflows) of Resources			Recognized in Net Pension Liability	Recognized in Total Pension Expense
	Total Pension Liability	Plan Fiduciary Net Position	Net Pension Liability	(Gains)/ Losses	Assumption Changes	Projected Net Investment Income		
Balances -- prior year disclosure	(262,781,827)	175,471,299	(87,310,528)	1,296,670	7,778,142	5,219,550	(87,310,528)	
Changes in net pension liability:								
Service cost	(6,670,326)		(6,670,326)					6,670,326
Interest	(19,961,295)		(19,961,295)					19,961,295
Net investment income		16,762,760	16,762,760					(16,762,760)
Contributions - employer		9,172,822	9,172,822				9,172,822	
Contributions - member		3,624,939	3,624,939					(3,624,939)
Benefit payments, including refunds of member contributions	15,616,191	(15,616,191)	-					
Administrative expense		(385,309)	(385,309)					385,309
Other		(20,278)	(20,278)					20,278
Recognized in total pension expense								
Differences between expected and actual experience				(1,356,374)			1,356,374	1,356,374
Changes of assumptions					(715,500)		715,500	715,500
Differences between projected and actual earnings on pension plan						(1,508,888)	1,508,888	1,508,888
Deferred outflows/inflows of resources								
Differences between expected and actual experience	1,453,843		1,453,843	(1,453,843)			1,453,843	
Changes of assumptions	7,508,856		7,508,856		(7,508,856)		7,508,856	
Differences between projected and actual earnings on pension plan						(3,503,731)	3,503,731	3,503,731
Total pension expense							(13,595,468)	<u>13,595,468</u>
Balances -- end of year	(264,696,024)	189,010,042	(75,685,982)	(1,513,547)	(446,214)	206,931	(75,685,982)	



Changes in the Net Pension Liability

	Increase (Decrease)		
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (a) - (b)
Balances as of June 30, 2017	\$ 262,781,827	\$ 175,471,299	\$ 87,310,528
Changes for the year:			
Service cost	6,670,326		6,670,326
Interest	19,961,295		19,961,295
Differences between expected and actual experience	(1,453,843)		(1,453,843)
Changes of benefit terms	(138,534)		(138,534)
Changes of assumptions	(7,508,856)		(7,508,856)
Contributions - employer		9,172,822	(9,172,822)
Contributions - member		3,624,939	(3,624,939)
Net investment income		16,762,760	(16,762,760)
Benefit payments, including refunds of member contributions	(15,616,191)	(15,616,191)	-
Administrative expense		(385,309)	385,309
Other		(20,278)	20,278
Net changes	<u>1,914,197</u>	<u>13,538,743</u>	<u>(11,624,546)</u>
Balances at June 30, 2018	<u>\$ 264,696,024</u>	<u>\$ 189,010,042</u>	<u>\$ 75,685,982</u>



Components of the Pension Expense for the Fiscal Year Ended June 30, 2018

Description	Amount
Service cost	\$ 6,670,326
Interest on the total pension liability	19,961,295
Differences between expected and actual experience	1,356,374
Changes of assumptions	715,500
Changes of benefit terms	(138,534)
Member contributions	(3,624,939)
Projected earnings on pension plan investments	(13,259,029)
Differences between projected and actual earnings on plan investments	1,508,888
Pension plan administrative expense	385,309
Other changes in fiduciary net position	20,278
Total pension expense	\$ 13,595,468



Increase (Decrease) in Pension Expense from the Recognition of the Effects of Differences Between Expected and Actual Experience

Year	Differences between Expected and Actual Experience		Recognition Period (Years)			
			2018	2019	2020	2021
2015	\$ 4,299,431	4.0	\$ 1,074,857			
2016	6,852,487	4.0	1,713,122	\$ 1,713,121		
2017	(4,272,574)	4.0	(1,068,144)	(1,068,144)	\$(1,068,142)	
2018	(1,453,843)	4.0	<u>(363,461)</u>	<u>(363,461)</u>	<u>(363,461)</u>	\$ (363,460)
Net increase (decrease) in pension expense			<u>\$ 1,356,374</u>	<u>\$ 281,516</u>	<u>\$(1,431,603)</u>	<u>\$ (363,460)</u>



Increase (Decrease) in Pension Expense from the Recognition of the Effects of Changes of Assumptions

Year	Changes of Assumptions	Recognition Period (Years)	2018	2019	2020	2021
2015	\$ -	4.0	\$ -			
2016	-	4.0	-	\$ -		
2017	10,370,856	4.0	2,592,714	2,592,714	\$ 2,592,714	
2018	(7,508,856)	4.0	<u>(1,877,214)</u>	<u>(1,877,214)</u>	<u>(1,877,214)</u>	<u>\$(1,877,214)</u>
Net increase (decrease) in pension expense			<u>\$ 715,500</u>	<u>\$ 715,500</u>	<u>\$ 715,500</u>	<u>\$(1,877,214)</u>



Increase (Decrease) in Pension Expense from the Recognition of Differences between Projected and Actual Earnings on Pension Plan Investments

Year	Differences between Projected and Actual Earnings on Pension Plan Investments		Recognition Period (Years)				
	Investments	Recognition Period (Years)	2018	2019	2020	2021	2022
2014	\$ (8,016,688)	5	\$ (1,603,336)				
2015	13,615,254	5	2,723,051	\$ 2,723,050			
2016	14,914,466	5	2,982,893	2,982,893	\$ 2,982,894		
2017	(9,464,869)	5	(1,892,974)	(1,892,974)	(1,892,974)	\$ (1,892,973)	
2018	(3,503,731)	5	<u>(700,746)</u>	<u>(700,746)</u>	<u>(700,746)</u>	<u>(700,746)</u>	\$ (700,747)
Net increase (decrease) in pension expense			<u>\$ 1,508,888</u>	<u>\$ 3,112,223</u>	<u>\$ 389,174</u>	<u>\$ (2,593,719)</u>	<u>\$ (700,747)</u>



Interest on the Total Pension Liability Recognized in Expense

	Amount for Period	Portion of Period	Interest Rate	Interest on the Total Pension Liability
Beginning total pension liability	\$ 262,781,827	100%	7.625%	\$ 20,037,114
Service cost	6,670,326	100	7.625	508,612
Benefit payments, including refunds of member contributions	(15,616,191)	50	7.625	<u>(584,431)</u>
Total interest on the pension liability				\$ 19,961,295

Projected Earnings on Pension Plan Investments Recognized in Expense

	Amount for Period	Portion of Period	Projected Rate of Return	Projected Earnings
Beginning plan fiduciary net position	\$ 175,471,299	100%	7.625%	\$ 13,379,687
Contributions - employer	9,172,822	50	7.625	343,290
Contributions - member	3,624,939	50	7.625	135,662
Benefit payments, including refunds of member contributions	(15,616,191)	50	7.625	<u>(584,431)</u>
Administrative expense and other	(405,587)	50	7.625	<u>(15,179)</u>
Total projected earnings				\$ 13,259,029



Pension Expense and Deferred Outflows and Inflows of Resources Related to Pensions

For the fiscal year ended June 30, 2018, the recognized pension expense is \$13,595,468. As of June 30, 2018, deferred outflows and inflows of resources related to pensions are reported as follows:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ 1,713,121	\$ (3,226,668)
Changes of assumptions	5,185,428	(5,631,642)
Net difference between projected and actual earnings on pension plan investments	206,931	
Total	<u>\$ 7,105,480</u>	<u>\$ (8,858,310)</u>

Amounts reported as deferred outflows and inflows of resources related to pensions will be recognized in the pension expense as follows:

Year Ended June 30:	
2019	\$ 4,109,239
2020	(326,929)
2021	(4,834,393)
2022	(700,747)
2023	-
Thereafter	-



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

Year	Experience Losses (a)	Experience Gains (b)	Amounts Recognized in Pension Expense through June 30, 2018 (c)	Balances at June 30, 2018	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2016	6,852,487		5,139,366	1,713,121	
2017		\$ (4,272,574)	(2,136,288)		\$ (2,136,286)
2018		(1,453,843)	(363,461)		(1,090,382)
				<u>\$ 1,713,121</u>	<u>\$ (3,226,668)</u>



Deferred Outflows and Inflows of Resources from Changes of Assumptions

Year	Increases in the Total Pension Liability (a)	Decreases in the Total Pension Liability (b)	Amounts Recognized in Pension Expense through June 30, 2018 (c)	Balances at June 30, 2018	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2017	\$ 10,370,856		\$ 5,185,428	\$ 5,185,428	
2018		\$ (7,508,856)	(1,877,214)		\$ (5,631,642)
				<u>\$ 5,185,428</u>	<u>\$ (5,631,642)</u>



Deferred Outflows and Inflows of Resources from Differences between Projected and Actual Earnings on Pension Plan Investments

Year	Investment Earnings Less Than Projected (a)	Investment Earnings Greater Than Projected (b)	Amounts Recognized in Pension Expense through June 30, 2018 (c)	Balances at June 30, 2018	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2015	\$ 13,615,254		\$ 10,892,204	\$ 2,723,050	
2016	14,914,466		8,948,679	5,965,787	
2017		\$ (9,464,869)	(3,785,948)		\$ (5,678,921)
2018		(3,503,731)	(700,746)		(2,802,985)
				<u>\$ 8,688,837</u>	<u>\$ (8,481,906)</u>



Sensitivity of the Net Pension Liability to Changes in the Discount Rate

	Current Discount Rate (7.50%)	1% Decrease (6.50%)	1% Increase (8.50%)
Net pension liability as of June 30, 2018	\$ 75,685,982	\$ 106,040,151	\$ 50,243,885

Participant Breakdown as of June 30, 2018

	Participant Count
Inactive plan members or beneficiaries currently receiving benefits	713
Inactive plan members entitled to but not yet receiving benefits	494
Active plan members	<u>920</u>
Total members	<u><u>2,127</u></u>



Description of Significant Changes Prior to Year End

There were no significant plan changes since the last published valuation.

DROP Balances

Currently, there is no Deferred Retirement Option Plan (DROP). Therefore, the DROP balances are \$0.

Valuation Date and Roll Forward Process

The Plan Sponsor uses the July 1, 2016 Actuarial Valuation to calculate the ADEC for the fiscal year ending 2018. The June 30, 2018 Actuarial Valuation directly calculated the June 30, 2018 Total Pension Liability (TPL). The TPL as of June 30, 2018 was also adjusted to reflect any material plan changes after the valuation, if applicable.

Funding Policy

The Plan Sponsor uses the Entry Age Normal Actuarial Cost Method to calculate the plan liabilities. The Funding Policy has two parts.

1. Normal Cost
2. Amortization of the Unfunded Actuarial Liability (UAL)

Each year the Plan Sponsor pays the Normal Cost plus an amortization of the plan's UAL. Unfunded accrued liabilities as of June 30, 2004 were amortized over a closed 30-year period. Future changes in the unfunded accrued liability will be amortized separately, assuming a new 30-year amortization each valuation.

Assumption Selection

The selections of all assumptions used in determining the total pension liability were made in conformity with Actuarial Standards of Practice issued by the Actuarial Standards Board.

The actuarial assumptions used in the valuation were based on the results of an actuarial experience study for the period July 1, 2012 through June 30, 2017.



Description of Actuarial Methods

Asset Valuation Method

The Actuarial Value of assets used in the development of plan contributions phases in the recognition of differences between the actual return on Market Value and expected return on Market Value over a 10-year period at 10% per year.

Actuarial Cost Method

Cost method for determining the ADEC: Entry Age Normal Actuarial Cost Method (level percentage of salary).

Normal Cost: Under this method, the total normal cost is the sum of amounts necessary to fund each active member's normal retirement benefit if paid annually from entry age to assumed retirement age. Entry age is the age at which the employee would have been first eligible for the plan, if it had always been in effect. The normal cost for each participant is expected to remain a level percentage of the employee's salary. The normal cost for the plan is the difference between the total normal cost for the year and the anticipated member contributions for that year.

Past Service Liability: The present value of future benefits that relates to service before the valuation date is the total past service liability. The unfunded past service liability is the difference between the total past service liability and any assets (including accumulated member contributions). Unfunded accrued liabilities as of June 30, 2004 were amortized over a closed 30-year period. Future changes in the unfunded accrued liability will be amortized separately, assuming a new 30-year amortization each valuation.

Experience Gains and Losses: All experience gains and losses (the financial effect of the difference between the actual experience during the prior period and the result expected by the actuarial assumptions for that prior period) appear directly in the past service liability and are amortized at the same rate the plan is amortizing the remaining unfunded past service liability.



Description of Actuarial Assumptions

Changes in Actuarial Assumptions

The valuation reflects changes in the actuarial assumptions listed below. (The assumptions used before and after these changes are more fully described in the next section.)

- Investment rate of return
- Rate of compensation increase
- Inflation
- Mortality
- Retirement
- Termination prior to retirement
- Disability
- Cost of living increases
- Accrual rate election
- Payroll growth

The assumptions indicated were changed to represent the Enrolled Actuary's current best estimate of anticipated experience of the plan.

Investment rate of return (net of investment-related and administrative expenses)

7.50%. (Prior: 7.625%)

Rate of compensation increase (including inflation)

Class A

Completed Years of Service	Rate
<1	10.0%
1	8.5%
2	7.3%
3	6.3%
4	5.9%
5	5.6%
6	5.4%
7	5.2%
8	5.0%
9	4.8%
10	4.7%
11	4.6%
12	4.5%
13	4.4%
14	4.3%
15	4.2%
16	4.0%
17	3.8%
18	3.7%
19	3.6%
20+	3.5%

Class B

Completed Years of Service	Rate
<1	6.6%
1	6.0%
2	5.5%
3	5.1%
4	4.9%
5	4.7%
6	4.5%
7	4.4%
8	4.3%
9	4.3%
10	4.2%
11	4.2%
12	4.1%
13	4.0%
14	3.9%
15	3.8%
16	3.8%
17	3.8%
18	3.7%
19	3.6%
20+	3.5%



Rate of compensation increase (including inflation) (continued)

Prior: Graded scale (sample rates shown below):

Age	Class A&B
25	8.8%
30	7.0%
35	5.6%
40	4.9%
45	4.6%
50	4.3%
55	4.0%
59	3.9%
60	3.9%
65	3.8%
69	3.8%

For Class A Firemen and Class B AFSCME employees, salary increases rates as described above were reduced by 2% during fiscal year 2015-2016, 1.5% during fiscal 2016-2017, 0.5% during fiscal 2017-2018 and 0.25% during fiscal 2018-2019 to reflect lower short term salary increase per the collective bargaining agreements in place.

The assumption was changed to better reflect anticipated experience.

The actuarial assumption in regards to rate of compensation increases shown above are based on the results of an actuarial experience study for the period July 1, 2012 through June 30, 2017.

Inflation

2.60%. (Prior: 3.00%)

This assumption is consistent with the Social Security Administration's current best estimate of the ultimate long-term (75-year horizon) annual percentage increase in CPI, as published in the 2019 OASDI Trustees Report.

The assumption was changed to better reflect anticipated experience.

Mortality

Class A (Non-Disabled): RP-2014 Adjusted to 2006 Total Dataset Mortality Table, projected to the valuation date with Scale MP-2018.

Class B (Non-Disabled): RP-2014 Adjusted to 2006 Total Dataset Mortality Table, projected to the valuation date with Scale MP-2018, set forward 2 years.

Class A and B (Disabilities): RP-2014 Adjusted to 2006 Disabled Mortality Table, projected to the valuation date with Scale MP-2018.

Prior: 105% of the probabilities in the RP-2000 Mortality Table with separate male and female rates, with no adjustment, combined table for non-annuitants and annuitants, projected to the valuation date with Scale BB.



Mortality Improvement

Projected to date of decrement using Scale MP-2018 (generational).

Prior: Projected to date of decrement using Scale BB (generational).

We have selected this mortality assumption because it is based on a recently published pension mortality study released by the Society of Actuaries.

The mortality assumption was changed to better reflect anticipated experience.

Retirement age

Class A

Completed Years of Service	Rate
<15	0%
15-18	5%
19	15%
20-23	25%
24	30%
25	75%
26-29	50%
30-34	75%
35+	100%

Compulsory retirement is assumed at age 60.

Class B

Age	Rate
55-59	5.0%
60	7.5%
61	12.5%
62	18.0%
63	22.5%
64-65	25.0%
66-69	30.0%
70-74	50.0%
75+	100.0%



Retirement age (continued)

Prior:

Class A		Class B	
Age	Rate	Age	Rate
45-46	15%	55-59	5%
47-48	30%	60	10%
49-51	5%	61	15%
52	18%	62	20%
53-59	20%	63-65	25%
60	100%	66	20%
		67	25%
		68	20%
		69	25%
		70	100%

Termination prior to retirement

Class A

Completed Years of Service	Rate
<1	8.0%
1	7.0%
2	6.0%
7	5.0%
8	4.5%
9	4.0%
10+	0.0%

Class B: 100% of the Vaughn Select & Ultimate Withdrawal Table for service prior to 3 years, and 130% of the Vaughn Select & Ultimate Withdrawal Table thereafter.

Sample rates

Age	Completed Years of Service			
	0	1	2	3+
20	29.8%	25.0%	21.0%	24.18%
25	27.8%	22.5%	18.5%	17.68%
30	25.8%	20.0%	16.0%	13.13%
35	23.8%	17.8%	13.8%	10.27%
40	21.8%	15.8%	11.8%	8.45%
45	19.8%	14.1%	10.1%	7.15%
50	17.8%	12.6%	8.6%	5.85%
55	0.0%	0.0%	0.0%	0.00%



Termination prior to retirement (continued)

Prior:

Class A		Class B		
Sample Rates		Sample Rates		
Age	Rate	Years of Service		
		Age	0-2	3+
20	14.0%	20	27.5%	15.0%
25	7.0%	25	27.5%	15.0%
30	6.0%	30	22.0%	12.0%
35	6.0%	35	22.0%	10.0%
40	5.0%	40	16.5%	4.0%
45	4.0%	45	16.5%	4.0%
50	3.0%	50	16.5%	4.0%
55	0.0%	55	16.5%	4.0%
		60	16.5%	4.0%
		65	16.5%	4.0%
		70	0.0%	0.0%

Disability

Class A: 1985 Pension Disability Study Class 2 Table for Males and Females.

Class B: 1985 Pension Disability Study Class 1 Table for Males and Females.

Prior:

Class A		Class B	
Age	Rate	Age	Rate
20	2.0%	20	0.08%
25	2.4%	25	0.09%
30	2.9%	30	0.12%
35	3.8%	35	0.14%
40	5.0%	40	0.20%
45	7.4%	45	0.29%
50	12.5%	50	0.49%
55	0.0%	55	0.90%
		60	1.73%
		65	0.00%

The actuarial assumptions in regards to rates of decrement shown above are based on the results of an actuarial experience study for the period July 1, 2012 through June 30, 2017.

The assumptions were changed to better reflect anticipated experience.

Administrative expenses

Currently, there is no expense load assumed for administrative expenses.



Cost of living increases

2.60%.

Prior: Cost of living increases averaging 3% per year were assumed. For employees retiring after July 1, 2017, cost of living increases were capped at 2.75%

This assumption was changed to be consistent with the inflation assumption.

Accrual rate election

Class A: 85% of retiring members are assumed to elect the no COLA accrual rate and 15% of retiring members are assumed to elect the full COLA accrual rate.

Class B: 75% of retiring members are assumed to elect the no COLA accrual rate and 25% of retiring members are assumed to elect the full COLA accrual rate.

Prior: All: 85% of retiring members are assumed to elect the no COLA accrual rate and 15% of retiring members are assumed to elect the full COLA accrual rate.

The assumption was changed to better reflect anticipated experience.

Payroll growth

3.00% per year.

Prior: 3.50% per year.

This assumption was changed to be consistent with the lowering of the inflation assumption.

Percent of active employees married

80%.

Spouse's age

Husbands are assumed to be 3 years older than wives.

The assumption changes increased liabilities by about 1.2%.



Summary of Plan Provisions

This exhibit summarizes the major provisions of the Plan. It is not intended to be, nor should it be interpreted as a complete statement of all plan provisions. To the extent that this summary does not accurately reflect the plan provisions, then the results of this disclosure may not be accurate.

Plan identification

Single-employer pension plan

Effective date

July 1, 1954.

Average Final Compensation (AFC)

For Class A Police non-union employees, Class A Police employees hired after January 10, 2011, Class A Fire employees hired after October 7, 2011 Class B AFSCME Local 1343 employees hired after June 7, 2011, Class B IBEW Local 300 employees hired after October 30, 2012 or any employees hired on or after January 1, 2018, it is the average earnable compensation during the highest 5 non-overlapping 12-month periods. For all others, it is the average earnable compensation during the highest 3 non-overlapping 12-month periods.

Membership eligibility

Regular employees of the City of Burlington excluding elective officers other than the mayor and excluding teachers other than certain teachers employed prior to July 1, 1947.

Membership classification

Class A

Members of the Fire and Police Departments not including clerical employees.

Class B

All other members.

Service retirement

Eligibility

Class A

For Police employees hired before July 1, 2006, age 42 and 5 years of creditable service. For Police employees hired after January 10, 2011, age 40 and 20 years of creditable service. For other Police Union employees, age 45 and 5 years of creditable service. For Fire employees hired after October 7, 2011, age 45 and 20 years of creditable service. For Fire Union employees hired on or before October 7, 2011, age 45 and 5 years of creditable service. For all others, age 42 and 5 years of creditable service. Compulsory at age 60.

Class B

Age 55 and 5 years of creditable service.



Service retirement (continued)

Amount of Benefit

Class A

For Fire employees hired before January 1, 2007 and Police employees hired before July 1, 2006, 2.75% of AFC times creditable service not in excess of 25 years plus 0.50% of AFC times creditable service between 25 and 35 years. For Police employees hired after January 10, 2011, 2.50% of AFC times creditable service not in excess of 20 years plus 5.00% of AFC times creditable service between 20 and 25 years. For Fire employees hired after January 10, 2011, 3.00% of AFC times creditable service not in excess of 25 years plus 0.50% of AFC times creditable service between 25 and 35 years. For all others, 2.65% of AFC times creditable service not in excess of 25 years plus 0.50% of AFC times creditable service between 25 and 35 years. Benefit increased by Cost of Living Adjustment detailed below.

In lieu of this benefit, at the time of retirement, a member hired prior to July 1, 2006 may choose either (i) an accrual rate of 3.25% for the first 25 years of creditable service, plus an accrual of 0.50% for creditable service between 25 and 35 years, and a Cost of Living Adjustment equal to one half of the Cost of Living Adjustment detailed below, or (ii) an accrual rate of 3.80% for all years of service prior to June 30, 2006 for the first 25 years, an accrual rate of 3.60% for all years of service commencing July 1, 2006 for the first 25 years, plus an accrual rate of 0.50% for creditable service between 25 and 35 years, and no Cost of Living Adjustment.

A Fire employee hired on or after January 1, 2007 or a Police employee hired on or after July 1, 2006 may only select a benefit with a full Cost of Living Adjustment. Any Fire employee hired after October 5, 2015 cannot receive a pension that exceeds 90% of the employee's average final compensation.

For Police employees hired after January 10, 2011, the above benefits based on AFC and creditable service at retirement are reduced actuarially for the period of time by which retirement precedes age 50.

For all other Police employees, prior to age 55, the above benefit based on AFC and creditable service at retirement is reduced actuarially for the period of time by which retirement precedes the earlier of 25 years of creditable service and age 55. For employees who terminate with 20 to 25 years of creditable service the above benefit based on AFC and creditable service at retirement is reduced by 1.82% for each year that creditable service is less than 25 years.

For Fire employees hired after January 10, 2011, prior to age 55, the above benefit based on AFC and creditable service at retirement is reduced actuarially for the period of time by which retirement precedes the earlier of 25 years of creditable service and age 55. For employees who terminate with 20 to 25 years of creditable service the above benefit based on AFC and creditable service at retirement is reduced by 1.82% for each year that creditable service is less than 25 years.

For Fire employees hired on or before January 10, 2011 who retire on July 1, 2013 or later, the above benefit based on AFC and creditable service at retirement is reduced actuarially for the period of time by which retirement precedes the earlier of 25 years of creditable service and age 55. For employees who terminate with 20 to 25 years of creditable service and have attained age 48, the above benefit based on AFC and creditable service at retirement is reduced by 1.82% for each year that creditable service is less than 25 years. Employees that retire at age 50 with at least 20 years of creditable service receive an unreduced benefit.



Service retirement (continued)

Class B

For employees hired prior to July 1, 2006: Age 65 and older, the greater of (i) 1.60% of AFC (at age 65) times creditable service not in excess of 25 years plus 0.50% of AFC (at age 65) times creditable service in excess of 25 years or (ii) the actuarial equivalent of the benefit determined at age 65. This benefit will be increased by the Cost of Living Adjustment detailed below.

For employees hired on or after July 1, 2006: Age 65 and older, the greater of (i) 1.40% of AFC (at age 65) times creditable service not in excess of 25 years plus 0.50% of AFC (at age 65) times creditable service in excess of 25 years or (ii) the actuarial equivalent of the benefit determined at age 65. This benefit will be increased by the Cost of Living Adjustment detailed below.

In lieu of this benefit, at the time of retirement, a member may choose (i) an accrual rate of 1.90% for all years of service prior to June 30, 2006 for the first 25 years, an accrual rate of 1.80% for all years of service commencing July 1, 2006 for the first 25 years, plus an accrual of 0.50% for creditable service in excess of 25 years, and a Cost of Living Adjustment equal to one-half of the Cost of Living Adjustment detailed below, or (ii) an accrual rate of 2.20% for all years of service prior to June 30, 2006 for the first 25 years, an accrual rate of 2.00% for all years of service commencing July 1, 2006 for the first 25 years, plus an accrual of 0.50% for creditable service in excess of 25 years, and no Cost of Living Adjustment.

Except for employees detailed below, prior to age 65, the above benefit based on AFC and creditable service at retirement reduced by 2% for each year that retirement precedes age 65. For Class B IBEW employees hired before May 1, 2008, who elect a contribution rate of 4% is elected the early reduction factor is 2% for each year the retirement precedes age 65. For Class B IBEW employees hired before May 1, 2008, who elect a contribution rate of 3% the benefit is reduced by a factor which varies with age. The factor equals 1 at 65 and .4 at 50.

For Class B IBEW employees hired after May 4, 2008, the benefit is reduced by a factor which varies by age. The factor equals 1 at 65 but is equal to .356 at age 55.

For Class B AFSCME Local 1343 employees hired before January 1, 2006 that meet the Rule of 82 by December 7, 2011 but retire later than December 7, 2011, the reduction is 4% per year at ages 55 to 59 for each year under age 65, and the standard 2% per year reduction for ages 60 to 65. For other Class B AFSCME Local 1343 employees retiring after December 7, 2011, there will be full actuarial reduction from ages 55 to 59 and the standard 2% per year reduction for ages 60 to 65.

Cost of Living Adjustment

Benefits increase annually by changes in the Consumer Price Index of more than 1%. For Class A Fire employees retiring after October 5, 2015, Class A Police employees retiring after August 29, 2016, Class B AFSCME employees retiring after October 30, 2015, Class B IBEW employees retiring after March 9, 2016, and Class B Non-Union and Burlington School District employees retiring after July 1, 2017, the maximum annual increase is 2.75%. For all other participants, the maximum annual increase is 5%. Increases are not applicable to deferred vested benefit prior to commencement, survivor income benefit, disability benefit prior to normal retirement age or members who choose to have no cost of living adjustment. For all employees retiring after July 1, 2017, the maximum annual increase is 2.75%. Class B employees that retire after July 1, 2018 will not receive a cost of living adjustment prior to age 65 unless the BERS is at least 81% funded. For Class A Police employees who retire after February 1, 2019 and Fire employees who retire after March 28, 2019, the retirement COLA will be determined annually by the BERS Board equal to the CPI-U Northeast Region, with a maximum COLA of 2.75%, except that if the Class A funding level of the BERS falls below 73%, the BERS Board may reduce or vote for no COLA for the upcoming year.



Service Adjustment

Class A service for calculation of benefits shall be adjusted such that any Class A employee shall be granted 1.07 years of credit for each year in which the employee worked prior to July 1, 1996, and 1.17 years thereafter, in a position regularly assigned a workweek consisting on average of fifty-three or more hours of work per week.

Disability Retirement

Eligibility

All Members. Permanently disabled. Class B AFSCME Local 1343 employees must have 2 years of creditable service to be eligible for disabilities that are not work-related. Class A Fire employees hired after October 7, 2011 must have 1 year of creditable service to be eligible for disabilities that are not work-related. All other employees are immediately eligible.

Amount of Benefit

A benefit payable until normal service retirement eligibility (Class A - age 55 and 5 years of creditable service, Class B - age 65 and 5 years of creditable service). For Class A Fire employees hired after October 7, 2011, it is equal to 66 2/3% of the member's earnable compensation less workmen's compensation. For Class B IBEW employees hired after October 20, 2012, it is equal to 66 2/3% of the member's earnable compensation less workmen's compensation. For Class B AFSCME employees, it is equal to 66 2/3% of the member's earnable compensation less workmen's compensation and Social Security. For all others, it is equal to 75% of the member's earnable compensation less workmen's compensation and, in the case of Class B, less Social Security.

After normal service retirement eligibility, a service retirement benefit based on AFC at retirement and creditable service at normal service retirement eligibility, including the period while permanently disabled and receiving a disability benefit from the System.

Accidental Death

Eligibility

Class A only. Death due to accident while in the performance of duty.

Amount of Benefit

A benefit to the spouse until death or remarriage of the greater of (i) 55% of AFC, and (ii) the participant's current accrued retirement benefit. Upon death or remarriage of the spouse, the benefit will be payable to children until age 21.

Survivor Income

Eligibility

All Members. Death in active service.

Amount of Benefit

Class A

30% of compensation during the July preceding death payable to spouse until earlier of death or 2nd anniversary of remarriage. An additional 5% per unmarried child under 21 (maximum additional 10%) is payable until benefits cease or children no longer eligible. If there is no spouse or spouse dies, the benefit is payable to unmarried children under age 21 until earlier of death, marriage or age 21.



Survivor Income (continued)

Class B

30% of compensation during the July preceding death payable to spouse until earlier of death, 2nd anniversary of remarriage or age 62. Upon the spouse's attainment of age 62 (if not remarried) a benefit based on the 50% Joint and Survivor form of payment will be paid to the spouse for life. If there is no spouse or spouse dies, the benefit is payable to unmarried children under age 21 until earlier of death, marriage or age 21.

Return of Contributions

Accumulated contributions returned upon separation with no vested benefits under the plan or upon death with no accidental death benefit payable. Interest will accrue on these contributions at a rate of 5.5% until December 31, 2017 and 2.0% thereafter, or at a higher rate as may be set by the Retirement Board. Interest will only accrue on contributions made after June 30, 1980.

Upon death of a retired member, the excess of his contribution at retirement over the benefits paid will be paid to his beneficiary or estate.

Vested Retirement

Eligibility

5 years of creditable service.

Vesting percentage.

100% after 5 years.

Amount of Benefit

Class A

Vesting percentage times the benefit calculated using AFC and creditable service at termination. The benefit is payable commencing at age 55. Member may elect early receipt with reduction as for service retirement prior to age 55.

Class B

Vesting percentage times the benefit calculated using AFC and creditable service at termination. The benefit is payable commencing at age 65. Member may elect early receipt with reduction as for service retirement prior to age 65.

Survivor Spouse's Pension

Eligibility

All Members. Death of a terminated member entitled to a vested retirement benefit prior to commencement of such benefit.

Amount of Benefit

50% of reduced accrued benefit reflecting the 50% Joint and Survivor form of payment (ages as of date payments commence) payable at member's early retirement date. Spouse may elect to receive payments later than member's early retirement date with no reduction for receipt at member's 65th birthday.



Offsets on Benefits

Disability and accidental death benefits are offset by workmen's compensation paid for the same disability or death.

Contributions

By Members

Class A

11.0% of earnable compensation for Class A employees for the first 35 years of creditable service, and none thereafter.

Class A employees shall contribute to the BERS a percentage of their salary. The total contribution required from both the City and employees will be based on the annual system valuation prepared by the City's actuaries. Effective retroactive to July 1, 2018, employees shall contribute a percentage so that all employees are contributing 28% (and the City is contributing 72%) of the total contribution required. For Fiscal Year 2019, this means that each Class A employee contributes 12.69% of the employee's base pay. The individual employee contribution for each subsequent fiscal year will be determined prior to the beginning of the fiscal year.

Effective July 1, 2020, employees shall contribute a percentage so that all employees are contributing 29% (and the City is contributing 71%) of the total contribution required.

Effective July 1, 2021, employees shall contribute a percentage so that all employees are contributing 30% (and the City is contributing 70%) of the total contribution required.

Class B

Member contributions for Class B employees, who elected to continue to be eligible for early retirement benefits at 2% per year deduction between ages 55 and 65, in accordance with the 2006-2009 collective bargaining agreement will be 4.8% in fiscal year 2016-2017, and 5.2% beginning with fiscal year 2017-2018. Member contributions for all other Class B employees will be 3.8% in fiscal year 2016-2017, and 4.2% beginning with fiscal year 2017-2018.

Class B employees shall contribute to the BERS a percentage of their annual salary. The total contribution required from both the City and employees will be based on the annual system valuation prepared by the City's actuaries.

Effective retroactive to July 1, 2018, employees shall contribute a percentage so that all employees are contributing 28% (and the City is contributing 72%) of the total contribution required. For Fiscal Year 2019, this shall mean that the contribution rate for a Class B employee is 4.41% of the employee's base pay.

Effective July 1, 2020, employees shall contribute a percentage so that all employees are contributing 29% (and the City is contributing 71%) of the total contribution required.

Effective July 1, 2021, employees shall contribute a percentage so that all employees are contributing 30% (and the City is contributing 70%) of the total contribution required.

Notwithstanding the above, an individual Class B employee's contribution shall not exceed 5.6% of their eligible wages in Fiscal Year 2019, 5.8% in Fiscal Year 2020, 6.2% in Fiscal Year 2021, or 7% in Fiscal Year 2022.



Supplemental Allocation Exhibits

Exhibit A – Employers' Allocation of Net Pension Liability as of June 30, 2018

Employer Name	FY 2018 Employer Contributions	Employer Proportion	Total Pension Liability	Plan Fiduciary Net Position	Net Pension Liability	Total Deferred Outflows	Total Deferred Inflows	Plan Fiduciary Net Position as % of Total Pension Liability	Covered Payroll	Net Pension Liability as % of Covered Payroll	Net Pension Liability 1% Increase (8.50%) in Discount Rate	Net Pension Liability 1% Increase (6.50%) in Discount Rate
Airport	196,740	2.1448%	5,677,237	4,053,914	1,623,323	486,336	(758,100)				1,073,212	2,276,834
Electric Department	1,663,709	18.1374%	48,008,899	34,281,452	13,727,447	2,945,639	(3,424,685)				9,426,364	18,778,808
General Fund	6,169,674	67.2604%	178,035,553	127,128,873	50,906,680	12,873,855	(11,913,590)				33,350,731	71,980,716
School	890,362	9.7065%	25,692,768	18,346,294	7,346,474	1,571,613	(3,082,458)				5,000,056	10,109,449
Telecom	29,368	0.3202%	847,451	605,135	242,316	49,905	(398,745)				113,925	401,550
Waste Water	1,016,151	1.1078%	2,932,272	2,093,831	838,441	384,898	(402,500)				567,664	1,152,868
Water	1,213,541	13.230%	3,501,844	2,500,543	1,001,301	487,731	(572,729)				711,933	1,339,926
Total	9,172,822	100.0000%	264,696,024	189,010,042	75,685,982	18,799,977	(20,552,807)	71.14%	49,012,028	154.42%	50,243,885	106,040,151



Exhibit B – Employers' Allocation of Pension Amounts as of June 30, 2018

Employer Name	Net Pension Liability	Employer Proportion	Difference Between Expected and Actual		Changes in Assumptions	Difference Between Projected and Actual Investment Earnings	Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		Total Deferred Outflows
			Experience				Proportionate Share of Contributions		
Airport	1,623,323	2.14%	36,743		111,218	186,359	152,016		486,336
Electric Department	13,727,447	18.14%	310,715		940,500	1,575,927	118,497		2,945,639
General Fund	50,906,680	67.26%	1,152,252		3,487,737	5,844,144	2,389,722		12,873,855
School	7,346,474	9.71%	166,284		503,325	843,384	58,620		1,571,613
Telecom	242,316	0.32%	5,485		16,602	27,818	-		49,905
Waste Water	838,441	1.11%	18,978		57,444	96,254	212,222		384,898
Water	1,001,301	1.32%	22,664		68,602	114,951	281,514		487,731
Total	75,685,982	100.00%	1,713,121		5,185,428	8,688,837	3,212,591		18,799,977

Employer Name	Difference Between Expected and Actual Experience	Changes in Assumptions	Difference Between Projected and Actual Investment Earnings	Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		Total Deferred Inflows	Proportionate Share of Pension Plan Expense	Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	
				Proportionate Share of Contributions				Contributions and Proportionate Share of Contributions	Total
Airport	(69,206)	(120,788)	(181,921)	(386,185)		(758,100)	291,597	(37,828)	253,769
Electric Department	(585,233)	(1,021,432)	(1,538,395)	(279,625)		(3,424,685)	2,465,860	87,137	2,552,997
General Fund	(2,170,268)	(3,787,864)	(5,704,961)	(250,497)		(11,913,590)	9,144,364	518,772	9,663,136
School	(313,197)	(546,636)	(823,298)	(1,399,327)		(3,082,458)	1,319,647	(399,842)	919,805
Telecom	(10,331)	(18,030)	(27,156)	(343,228)		(398,745)	43,527	(168,577)	(125,050)
Waste Water	(35,745)	(62,387)	(93,962)	(210,406)		(402,500)	150,609	20,733	171,342
Water	(42,688)	(74,505)	(112,213)	(343,323)		(572,729)	179,864	(20,395)	159,469
Total	(3,226,668)	(5,631,642)	(8,481,906)	(3,212,591)		(20,552,807)	13,595,468	-	13,595,468



Exhibit B – Employers' Allocation of Pension Amounts as of June 30, 2018 (continued)

Employer Name	Beginning Net Pension Liability	FYE 2018 Employer Contributions	Expense	Change in Deferred Outflows	Change in Deferred Inflows	Ending Net Pension Liability	Total Deferrals
Airport	1,630,284	(196,740)	253,769	(133,360)	69,370	1,623,323	(271,764)
Electric Department	16,182,193	(1,663,709)	2,552,997	(2,338,577)	(1,005,457)	13,727,447	(479,046)
General Fund	59,124,756	(6,169,674)	9,663,136	(8,804,647)	(2,906,891)	50,906,680	960,267
School	8,659,476	(890,362)	919,805	(1,413,063)	70,618	7,346,474	(1,510,845)
Telecom	294,862	(29,368)	(125,050)	(79,854)	181,726	242,316	(348,841)
Waste Water	664,669	(101,615)	171,342	96,695	7,350	838,441	(17,602)
Water	754,288	(121,354)	159,469	159,692	49,206	1,001,301	(84,999)
Total	87,310,528	(9,172,822)	13,595,468	(12,513,114)	(3,534,078)	75,685,982	(1,752,830)



Exhibit C – Employers' Allocation of Recognition of Deferred Outflows and Inflows as of June 30, 2018

Employer Name	FYE 2019	FYE 2020	FYE 2021	FYE 2022	FYE 2023	Thereafter
Airport	(71,322)	(132,395)	(53,017)	(15,030)	0	0
Electric Department	669,757	(72,461)	(949,245)	(127,097)	0	0
General Fund	3,906,117	860,604	(3,335,130)	(471,324)	0	0
School	(222,876)	(712,093)	(507,858)	(68,018)	0	0
Telecom	(195,093)	(132,823)	(18,681)	(2,244)	0	0
Waste Water	26,034	(45,571)	9,698	(7,763)	0	0
Water	(3,378)	(92,190)	19,840	(9,271)	0	0
Total	4,109,239	(326,929)	(4,834,393)	(700,747)	0	0



Exhibit D – Employer Contribution History

Employer Name	FYE 2018	FYE 2017	FYE 2016	FYE 2015	FYE 2014
Airport	196,740	172,141	270,003	281,375	211,879
Electric Department	1,663,709	1,708,674	1,662,338	1,643,789	1,562,320
General Fund	6,169,674	6,242,970	5,539,955	5,316,132	5,733,598
School	890,362	914,352	1,268,901	1,190,910	1,070,264
Telecom	29,368	31,134	103,320	145,784	123,604
Waste Water	101,615	70,182	128,908	111,067	88,252
Water	121,354	79,645	175,734	151,712	130,962
Total	9,172,822	9,219,098	9,149,159	8,840,769	8,920,879



Exhibit E – Summary Status of BERS (Pre-GASB 67 Basis)

The Burlington Employees' Retirement System became effective as of July 1, 1954, and covers virtually all City employees, except the majority of teachers who are eligible for the Vermont Teachers Retirement System. The Vermont Teachers Retirement System is funded by employee contributions of 5% of the teacher's contract and the remainder is funded from the Annual State of Vermont budget. Membership in the Burlington Employees Retirement System (the pension plan) is divided into two classes. Class A consists of members of the Fire and Police Departments not including clerical employees. Class B represents the remainder of Burlington's City work force.

The contribution by the City, excluding operation expenses, consists of two parts. The first part is a normal contribution to cover the cost of benefits expected to accrue under the Plan during the fiscal year following the valuation date, reduced by required Class A member contributions equal to 11.0% of compensation and required Class B member contributions equal to 4.2% of compensation. Effective retroactive to July 1, 2018, employees shall contribute a percentage such that all employees are contributing 28% (and the City is contributing 72%) of the total contribution required. For Fiscal 2019, this means that each Class A member contributes 12.69% of base pay, and each Class B member contributes 4.41% of base pay. The second part is a past service contribution to liquidate unfunded past service costs over a 30-year period in accordance with the policy adopted by the Retirement Board. Unfunded past service costs are amortized over 30 years and per the BERS Report Actuarial Valuation totaled \$71 million at June 30, 2018. The City's contribution under the plan as of FY 2018 totaled \$10.2 million, and included amortization of unfunded service costs of \$6.8 million. The pension is 73.2% funded on June 30, 2018 (pre GASB 67).

The City's share of the system is funded partially on an annual funding basis by a special government tax levy. This retirement portion of the tax rate is determined by the City's Retirement Board through the yearly budget preparation process and subject to appropriation in the annual budget approved by the City Council and is not subject to limit.

Governmental Accounting Standards Board ("GASB") Statement No. 68, approved on June 25, 2012 ("GASB 68"), requires governments that provide defined pension benefits to recognize their long-term obligation for pension benefits as a liability for the first time, and to more comprehensively and comparably measure the annual costs of pension benefits. GASB Statement 68 is effective for fiscal years beginning after July 1, 2014.

For further information regarding the City's pension fund, refer to Note 25 of the Notes to Financial Statements contained in Appendix A to this Official Statement.

The following table sets forth the historical funding ratios of the Retirement System as of the actuarial valuation dates listed below including among other things, the unfunded actuarial accrued liability. The schedule below is pre GASB 67 per the Actuarial Valuation for June 30, 2018.

Valuation Date (June 30)	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL)(b)	Excess of Assets over AAL (a-b)	Funded Ratio (a/b)	Covered Payroll (c)	Excess as a % of Covered Payroll
2013	\$143,944,820	\$207,539,449	(\$63,594,629)	69.36%	\$45,788,173	-138.89%
2014	158,411,427	222,951,312	(64,539,885)	71.05%	47,853,353	-134.87%
2015	169,088,755	229,890,291	(60,801,536)	73.56%	50,916,072	-119.40%
2016	175,745,959	245,943,279	(70,197,320)	71.46%	51,795,700	-135.53%
2017	183,816,473	252,410,971	(68,594,498)	72.82%	47,419,400	-144.65%
2018	193,642,202	264,696,024	(71,053,822)	73.16%	51,383,358	-138.28%



Schedule of Net Pension Liability for June 30, 2018 (measurement date for June 30, 2019 financial statements) is as follows:

Total pension liability	\$ 264,696,024
Plan fiduciary net position	\$ (189,010,042)
Net pension liability (asset)	\$ 75,685,982

Plan fiduciary net position as a percentage of the total pension liability 71.41%

The following table sets forth the historical employer contributions.

Year Ended (June 30)	Annual Required Contribution	Actual Contribution	Percentage Contributed
2014	\$8,357,370	\$8,357,370	100.00%
2015	8,920,879	8,920,879	100.00%
2016	8,840,768	8,840,768	100.00%
2017	9,219,098	9,219,098	100.00%
2018	9,172,822	9,172,822	100.00%