# **Hampshire County Retirement System**

Independent Auditors' Report and Management's Schedule of Employer Allocations and Schedule of Pension Amounts By Employer

**December 31, 2017** 

# Ron L. Beaulieu & Company

CERTIFIED PUBLIC ACCOUNTANTS

# HAMPSHIRE COUNTY RETIREMENT SYSTEM

# DECEMBER 31, 2017

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# INDEPENDENT AUDITORS' REPORT

To the Retirement Board of Hampshire County Retirement System Northampton, Massachusetts

We have audited the accompanying schedule of employer allocations of Hampshire County Retirement System as of and for the year ended December 31, 2017, and the related notes to the schedule. We have also audited the total for all entities of the columns titled net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total pension expense (specified column totals) included in the accompanying schedule of pension amounts by employer of Hampshire County Retirement System as of and for the year ended December 31, 2017, and the related notes to the schedule.

# Management's Responsibility for the Schedules

Management is responsible for the preparation and fair presentation of these schedules in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of the schedules that are free from material misstatement, whether due to fraud or error.

# **Auditors' Responsibility**

Our responsibility is to express opinions on the schedule of employer allocations and the specified column totals included in the schedule of pension amounts by employer based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the schedule of employer allocations and specified column totals included in the schedule of pension amounts by employer are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the schedule of employer allocations and specified column totals included in the schedule of pension amounts by employer. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the schedule of employer allocations and specified column totals included in the schedule of pension amounts by employer, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the schedule of employer allocations and specified column totals included in the schedule of pension amounts by employer in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting polices used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of

the schedule of employer allocations and specified column totals included in the schedule of pension amounts by employer.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

## **Opinions**

In our opinion, the schedules referred to above present fairly, in all material respects, the employer allocations and net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total pension expense for the total of all participating entities for Hampshire County Retirement System, as of and for the year ended December 31, 2017, in accordance with accounting principles generally accepted in the United States of America.

## **Other Matters**

We have audited, in accordance with auditing standards generally accepted in the United States of America, the financial statements of Hampshire County Retirement System as of and for the year ended December 31, 2017, and our report thereon, dated December 31, 2018, expressed an unmodified opinion on those financial statements.

# **Restriction of Use**

Our report is intended solely for the information and use of Hampshire County Retirement System management, Retirement Board, Hampshire County Retirement System employers and their auditors and is not intended to be and should not be used by anyone other than these specified parties.

Ron 1. Beaulier ; co.

Portland, Maine December 31, 2018

# HAMPSHIRE COUNTY RETIREMENT SYSTEM SCHEDULE OF EMPLOYER ALLOCATIONS AS OF AND YEARS ENDED DECEMBER 31,

	Actual	Employer
	Employer	Allocation
Employer	Contributions	Percentage
Hampshire Council of Governments	\$ 264,297	1.23902%
Town of Amherst	5,761,136	27.00797%
Amherst Housing Authority	149,532	0.70100%
Amherst-Pelham Regional School District	1,260,318	5.90833%
Town of Belchertown	2,736,162	12.82703%
Belchertown Housing Authority	29,075	0.13630%
Belchertown Water District	39,460	0.18499%
Town of Chesterfield	83,073	0.38944%
Chesterfield/Goshen Regional School District	80,996	0.37971%
Town of Cummington	43,614	0.20446%
Foothills Health District	12,461	0.05842%
Gateway Regional School District	548,282	2.57033%
Town of Goshen	60,228	0.28235%
Town of Granby	908,063	4.25697%
Granby Housing Authority	26,999	0.12657%
Town of Hadley	1,057,117	4.95573%
Hadley Housing Authority	8,307	0.03894%
Hampshire County Regional Housing Authority	8,307	0.03894%
Hampshire County Regional School District	474,128	2.22270%
Town of Hatfield	552,436	2.58980%
Hatfield Housing Authority	12,461	0.05842%
Town of Huntington	118,405	0.55508%
Town of Middlefield	43,614	0.20446%
Town of Pelham	199,376	0.93467%
Town of Plainfield	66,459	0.31156%
Quabbin Health District	53,661	0.25156%
South Hadley Fire District #1	531,667	2.49244%
South Hadley Fire District #2	249,220	1.16833%
Town of South Hadley	2,787,457	13.06750%
South Hadley Housing Authority	53,998	0.25314%
So Hadley-Granby-Easthampton Veterans District	14,538	0.06815%
Town of Southampton	674,546	3.16225%
Town of Ware	1,808,411	8.47777%
Ware Housing Authority	53,271	0.24973%
Town of Westhampton	186,914	0.87625%
Town of Williamsburg	257,132	1.20543%
Town of Worthington	116,097	0.54426%
Total	\$ 21,331,218	100.00000%

# HAMPSHIRE COUNTY RETIREMENT SYSTEM SCHEDULE OF PENSION AMOUNTS BY EMPLOYER AS OF AND YEARS ENDED DECEMBER 31,

	,		2017 Defe	2017 Deferred Outflows of Resources	sources			2017 Defer	2017 Deferred Inflows of Resources	sonrces		50.	2017 Pension Expense	
					Changes in					Changes in				
			Difference		Proportion and			Difference		Proportion and				
			Between		Differences			Between		Differences				
			Projected and		Between			Projected and		Between				
		Differences	Actual		Employer	Total	Differences	Actual		Employer	Total		NetAmortization	
		Between	Investment		Contributions	Deferred	Between	Investment		Contributions	Deferred	<b>Proportionate</b>	Jo	Total
	December 31, 2017	Expected	Earnings on	Changes	and Proportionate	Outflows	Expected	Earnings on	Changes	and Proportionate	Inflows	Share of Plan	Deferred Amounts	Employer
	Net Pension	and Actual	Pension Plan	of	Share of	of	and Actual	Pension Plan	Jo	Share of	Jo	Pension	from Changes in	Pension
Employer	Liability	Experience	Investments	Assumptions	Contributions	Resources	Experience	Investments	Assumptions	Contributions	Resources	Expense	Proportion	Expense
Hampshire Council of Governments	\$ 2,301,278	· •	\$ 125,826	\$ 125,095	\$ 229,279	\$ 480,200	\$ 37,345	\$ 223,668	\$ 105,621	\$ 122,119	\$ 488,753	\$ 277,528	\$ (4,518)	273,010
Town of Amherst	50, 162,994	•	2,742,726	2,726,814	535,062	6,004,602	814,068	4,875,474	2,302,312	365,012	8,356,866	6,049,491	267	6,049,758
Amnerst Housing Authority	1,301,996		800,008	70,775		141,963	470 080	126,544	59,757	1/5,138	382,568	157,016	(41,127)	115,889
Town of Belchertown	23.824.161		1.302.617	1.295,059	318.051	2.915.727	386.629	2.315.534	1.093.448	284.716	4.080.327	2.873.115	(16.984)	2.856.131
Belchertown Housing Authority	253, 155	,	13,842	13,761	64,425	92,028	4,108	24,605	11,619		40,332	30,530	24,051	54,581
Belchertown Water District	343,589		18,786	18,677	56,143	93,606	5,576	33,394	15,770	82,978	137,718	41,436	3,779	45,215
Town of Chesterfield	723,323	•	39,549	39,319	57,045	135,913	11,738	70,302	33, 198	56,988	172,226	87,230	(13,046)	74,184
Chesterfield/Goshen Regional School District	705,251	•	38,560	38,337	85,157	162,054	11,445	68,545	32,369	64,812	177,171	85,051	(4,066)	80,985
Town of Cummington	379,752	•	20,763	20,643	826	42,262	6,163	36,909	17,429	10,295	20,796	45,797	(3,636)	42,161
Foothills Health District	108,506		5,933	5,898	23,934	35,765	1,761	10,546	4,980		17,287	13,085	6,297	19,382
Gateway Regional School District	4,773,978	'	261,023	259,509		520,532	77,474	463,996	219, 109	492,064	1,252,643	575,726	(136,792)	438,934
Town of Goshen	524,420		28,673	28,507	12,296	69,476	8,511	50,970	24,069	43,532	127,082	63,243	(2,686)	57,557
Town of Granby	7,906,642	•	432,306	429,798	' ;	862,104	128,313	768,468	362,888	385,942	1,645,611	953,515	(101,830)	851,685
Granby Housing Authority	235,084	'	12,853	977,21	676	T01,02	3,815	22,848	06/01	455, F	38,787	068,82	(6G)	182,82
Lown of Hadley	9,204,478		503,267	3 932	500,391	1,504,005	149,374	894,608	422,454	237,124	1,703,560	1,110,030	44,070	1,154,100
Hampshire County Regional Housing Authority	72,325		2,00,0	3,932	15 913	23,799	1 174	7 029	3319	<u> </u>	11 522	8,722	2 767	11 489
Hampshire County Regional School District	4.128.311		225.721	224.411	48.179	498.311	966.999	401.242	189.475	31.345	689.058	497.861	14.694	512.555
Town of Hatfield	4,810,140	'	263,001	261,475	386,238	910,714	78,061	467,510	220,769	12,080	778,420	580,087	82,013	662,100
Hatfield Housing Authority	108,506	•	5,933	5,898	11,277	23,108	1,761	10,546	4,980	617	17,904	13,085	3,532	16,617
Town of Huntington	1,030,973	•	56,370	56,043	46,627	159,040	16,731	100,203	47,318	•	164,252	124,332	17,115	141,447
Town of Middlefield	379,752	'	20,763	20,643	826	42,262	6,163	36,909	17,429	10,295	70,796	45,797	(3,636)	42,161
Town of Pelham	1,736,000		94,918	94,367	53,334	242,619	28,173	168,727	79,676	26,069	302,645	209,356	14,530	223,886
Town of Plainfield	578,673	'	31,640	31,456	64,076	127,172	9,391	56,243	26,559	3,286	95,479	98,786	24,669	94,455
Quabbin Health District	467,233		25,547	25,398	13,640	64,585	7,582	45,412	21,444	2,143	76,581	56,347	1,665	58,012
South Hadley Fire District #1	4,629,310		253,113	201,045	21,955	520,713	75,12/	449,935	212,470	400, 762	974,097	558,279	(38,129)	920,150
South Hadiey Fire District #2 Town of South Hadiey	24 270 796		1 327 037	1 310 338	930.493	3 576 868	303.878	2 358 944	1113 047	105,630	451,554	200,102	9,003	3 145 366
South Hadley Housing Authority	770 167		707.707	25,500	25,433	76.852	7,630	45,607	21.579	8 141	93.047	56.701	2,000	50,145,365
So Hadlev-Granby-Easthampton Veterans District	126.578	,	6.921	6.881	285	14.087	2.054	12.302	5.809	718	20.883	15.265	(32)	15.233
Town of Southampton	5,873,375		321,134	319,271	53,015	693,420	95,316	570,849	269,568	194,102	1,129,835	708,310	(57,112)	651,198
Town of Ware	15,746,105	'	860,939	855,944	219,156	1,936,039	255,535	1,530,406	722,693	276,802	2,785,436	1,898,928	(61,079)	1,837,849
Ware Housing Authority	463,834	•	25,361	25,214	78,004	128,579	7,527	45,081	21,288	•	73,896	55,937	27,689	83,626
Town of Westhampton	1,627,495	•	88,985	88,469	96, 195	273,649	26,412	158,181	74,696	106,864	366, 153	196,270	(11,458)	184,812
Town of Williamsburg	2,238,894	•	122,414	121,704	139,854	383,972	36,334	217,604	102,758	178,343	535,039	270,003	(46,165)	223,838
Town of Worthington			55,271	54,950	275,511	385,732	16,405	98,250	46,396	24,424	185,475	121,908	58,070	179,978
lotal	\$ 185,734,042	·	\$ 10,155,248	\$ 10,096,329	\$ 4,537,746	24,789,323	\$ 3,014,177	18,051,988	8,524,559	\$ 4,537,746	\$ 34,128,470	\$ 22,398,912	-	22,398,912

See Independent Auditors' Report and management's notes to schedules.

### NOTE 1 - DESCRIPTION OF PLAN

The following description of the Hampshire County Retirement System (the Plan), a cost sharing multiemployer plan serving 37 employers, provides only general information. Participants should refer to the Plan agreement for a complete description of the Plan's provisions.

# General

The Plan is a defined benefit plan covering all member unit employees deemed eligible by the retirement board, with the exception of the school department employees who serve in a teaching capacity.

### Plan Amendments

The Plan did not adopt any significant plan amendments during 2017.

# Administration of the Plan

The Plan is administered by a five person Board of Retirement consisting of the Chairperson who shall be appointed by the other four board members, a second member appointed by the Advisory Council, a third and fourth member who shall be elected by the members in or retired from the service of the Plan, and a fifth member, who shall not be a member of the Plan, appointed by the other four board members. The Board of Retirement has the authority to amend or establish policies that are not governed by Massachusetts Law or the Public Employee Retirement Administration Commission.

# Contributions

Participation in the plan is required for all full-time employees. There are three classes of membership:

# Group 1:

General employees, including clerical, administrative, technical, and all other employees not otherwise classified.

### Group 2:

Certain specified hazardous duty positions.

# Group 4:

Police officers, firefighters, and other specified hazardous positions.

# NOTE 1 - DESCRIPTION OF PLAN (CONTINUED)

Membership of each group as of December 31, 2017:

			Inactive (retired) members	
		Inactive	entitleld to	
		(retired)	benefits	
		members	but not yet	
	Active	receiving	receiving	
Group	members	benefits	benefits	Total
Group 1	1,639	1,055	518	3,212
Group 2 & 4	377	223	142_	742
	2,016	1,278	660	3,954

Member contributions vary depending on the most recent date of membership:

Prior to 1975: 5% of compensation 1975-1983: 7% of compensation 1984-6/30/96: 8% of compensation 7/1/96-present: 9% of compensation

1979 to present: an additional 2% of compensation in excess of \$30,000

Upon termination, a member may withdraw their contributions plus statutory interest.

Employers were required to contribute \$21,331,218, for the year ended December 31, 2017.

# Payment of Benefits

Once a member has met one of the conditions below, they are eligible to receive benefits:

Tier 1 (Membership prior to April 2, 2012):

- 1) Completion of 20 years of service, or
- 2) Reach age 55 if hired prior to 1978, or classified as Group 4, or
- 3) Reach age 55 with 10 years of service, if hired after 1978, and if classified in Group 1 and 2. or
- 4) Disabled or death

Tier 2 (Membership on or after April 2, 2012):

- 1) If classified as Group 1, attain age 60 with 10 years of creditable service, or
- 2) If classified as Group 2, attain age 55 with 10 years creditable service, or
- 3) If classified as Group 4, attain age 55, or
- 4) Disabled or death

# NOTE 1 - DESCRIPTION OF PLAN (CONTINUED)

The amount of benefit is determined by their benefit rate and cannot exceed 80% of the member's highest three year average compensation. The benefit amount may be adjusted for a cost of living adjustment by annual vote of the Retirement Board. Cost of Living adjustment may be granted in an amount determined by the Retirement Board up to a maximum of 3% on the first \$13,000.

### NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

# Basis of Accounting

The schedules are prepared using the accrual method of accounting.

# Basis of Allocation

The Schedule of Employer Allocations is prepared using the historical measure basis of actual contributions.

### **NOTE 3 - NET PENSION LIABILITY**

The net pension liability is the actuarial total liability less the fiduciary net position. The components of the net pension liability are as follows:

	2017
Total pension liability	\$503,968,562
Plan fiduciary net position	318,234,520
Net pension liability (asset)	\$185,734,042

The following are significant assumptions used to measure the total pension liability and projected cash flows:

- 1) Discount rate is estimated to be 7.45% per year based on prior results
- 2) Inflation is estimated to be 3%
- 3) Asset allocation is estimated to be 28% fixed income; 55% equities; 12% real estate; and 5% other.
- 4) Increase in salaries will be 4.25% per year for Group 1 and 4.75% for Group 4
- 5) Mortality was based upon the RP2000 Table projected with scale BB with base year of 2009. Morality for disabled lives used a base year of 2012.
- 6) Cost of Living Allowance base is fixed at \$13,000.
- 7) Morality assumptions reflect the recent experience study published in 2014.

### NOTE 4 – COMPONENTS OF SCHEDULES OF PENSION AMOUNTS BY EMPLOYER

Net Pension Liability

The Net Pension Liability is the product of the Total Net Pension Liability multiplied by the Employer Allocation Percentage for the year ended December 31, 2017.

Difference between Expected and Actual Experience

The difference between the projected total pension liability and accrued liability is the amount of the difference between expected and actual experience. Each employer's proportionate share of this amount is the product of the Difference between Expected and Actual Experience multiplied by the Employer's Allocation Percentage for the year ended December 31, 2017, as shown in the schedules of employer allocations.

Difference between Projected and Actual Investment Earnings on Pension Plan Investments

The difference between the actual earnings on plan investments compared to the plan's expected rate of return of 7.45% is amortized over a closed period of 5 years. Each employer's proportionate share of this amount is the product of the Total Difference Between Projected and Actual Investment Earnings on Pension Plan Investments multiplied by the Employer's Allocation Percentage for the year ended December 31, 2017, as shown in the schedules of employer allocations.

# Changes of Assumptions

The discount rate assumption was changed from 7.50% down to 7.45%. Each employer's proportionate share of this amount is the product of the Change of Assumptions multiplied by the Employer's Allocation Percentage for the year ended December 31, 2017, as shown in the schedules of employer allocations.

Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions

The Changes in Proportion are the December 31, 2017 Net Pension Liability multiplied by the December 31, 2016 Employer Allocation Percentage less the current year Net Pension Liability plus the December 31, 2017 Net Difference between Projected and Actual Investment Earnings on Pension Plan Investments multiplied by the December 31, 2016 Employer Allocation Percentage less the current year Net Difference between Projected and Actual Investment Earnings on Pension Plan Investments. The changes in proportion are amortized over the average expected remaining service life of members, which is 6.79 years in 2017. The first year is recognized as pension expense and the remaining years are shown as either deferred outflows of resources or deferred inflows of resources.

# NOTE 4 – COMPONENTS OF SCHEDULES OF PENSION AMOUNTS BY EMPLOYER (CONTINUED)

# Collective Deferred Outflows of Resources and Deferred Inflows of Resources

	Year of deferral	Amortization period	Balance January 1	Additions	Deletions	Balance December 31
Deferred outflows of resources:  Difference between projected and actual investments						
earnings	2014	5 years	\$ 2,958,804	\$ -	\$ (1,479,402)	\$ 1,479,402
	2015	5 years	12,805,131	-	(4,268,377)	8,536,754
	2016	5 years	185,456	-	(46,364)	139,092
	2017	5 years				
			\$15,949,391	\$ -	\$ (5,794,143)	\$ 10,155,248
Changes in assumptions	2016	5.1 years	\$13,353,210	\$ -	\$ (3,256,881)	\$ 10,096,329
Deferred inflows of resources: Differences between						
expected and actual						
experience	2016	5.1 years	\$ (3,496,042)	\$ -	\$ 852,693	\$ (2,643,349)
·	2017	6.79 years	-	(434,874)	64,046	(370,828)
			\$ (3,496,042)	\$ (434,874)	\$ 916,739	\$ (3,014,177)
Difference between projected and actual investments						
earnings	2017	5 years	\$ -	\$ (22,564,985)	\$ 4,512,997	\$(18,051,988)
Changes in assumptions	2017	6.79 years	\$ -	\$ (9,996,849)	\$ 1,472,290	\$ (8,524,559)

# Pension Expense

Each employer's proportionate share of the collective pension expense is equal to the Total Pension Expense multiplied by the Employer's Allocation Percentage for the year ended December 31, 2017, as shown in the schedules of employer allocations.

Service cost	\$ 11,029,438
Interest cost	36,888,260
Employee contributions	(7,689,443)
Projected earnings on pension plan investments	(20,636,668)
Administrative expenses	817,067
Recognition of deferred outflows and deferred inflows of resources:	
Differences between expected and actual experience	(916,739)
Changes of assumptions	1,784,591
Differences between projected and actual earnings on plan	
investments	1,281,146
Pension Expense per Actuarial Certification Report	\$ 22,557,652

Subsequent to the measurement date of the pension liability, there were adjustments made to the financial statements of the Plan.

# NOTE 4 - COMPONENTS OF SCHEDULES OF PENSION AMOUNTS BY EMPLOYER (CONTINUED)

Below is the reconciliation between the Actuarial Certification report and the Schedule of Pension Amounts by Employer:

Actuarial Certification Report \$ 22,557,652

Year end accruals (158,740)

Total Pension Expense \$ 22,398,912

# NOTE 5 – FUTURE RECOGNITION OF DEFERRED OUTFLOWS OF RESOURCES AND DEFERRED INFLOWS OF RESOURCES

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

Total	2018	2019	2020	2021	2022	Thereafter
\$ (9,339,147)	2,148,998	669,596	(3,598,781)	(5,808,917)	(1,536,336)	(1,213,707)

# **NOTE 6 - MANAGEMENT REVIEW**

Management has reviewed subsequent events as of December 31, 2018, the date the schedules were available to be issued. At that time, there were no material subsequent events.