

Schedule of Employer and Nonemployer Allocations and Schedule of Pension Amounts by Employer and Nonemployer

June 30, 2018

(With Independent Auditors' Report Thereon)

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Independent Auditors' Report

The Division of Retirement and Benefits and Members of the Alaska Retirement Management Board State of Alaska Teachers' Retirement System:

We have audited the accompanying schedule of employer and nonemployer allocations of the State of Alaska Teachers' Retirement System Defined Benefit Pension Plan (the Plan) as of and for the year ended June 30, 2018, and the related notes. 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 and nonemployer of the Plan as of and for the year ended June 30, 2018, and the related notes.

Management's Responsibility for the Schedules

Management is responsible for the preparation and fair presentation of these schedules in accordance with U.S. generally accepted accounting principles; 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 and nonemployer allocations and the specified column totals included in the schedule of pension amounts by employer and nonemployer 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 and nonemployer allocations and specified column totals included in the schedule of pension amounts by employer and nonemployer are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the schedule of employer and nonemployer allocations and specified column totals included in the schedule of pension amounts by employer and nonemployer. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the schedule of employer and nonemployer allocations and specified column totals included in the schedule of pension amounts by employer and nonemployer, 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 and nonemployer allocations and specified column totals included in the schedule of pension amounts by employer and nonemployer 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 policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the schedule of employer and nonemployer allocations and specified column totals included in the schedule of pension amounts by employer and nonemployer.

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 and nonemployer 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 the Plan as of and for the year ended June 30, 2018, in accordance with U.S. generally accepted accounting principles.

Other Matter

We have audited, in accordance with auditing standards generally accepted in the United States of America, the financial statements of the State of Alaska Teachers' Retirement System, which includes the Defined Benefit Pension Plan, as of and for the year ended June 30, 2018, and our report thereon, dated November 21, 2018, expressed an unmodified opinion on those financial statements.

Other Information

The supplemental schedule of employer allocations of special funding amounts, supplemental schedule of special funding amounts by employer, and supplemental schedule of employer and nonemployer contributions have not been subject to the auditing procedures applied in the audit of the schedule of employer and nonemployer allocations and schedule of pension amounts by employer and nonemployer and accordingly, we do not express an opinion or provide any assurance on them.

Restriction on Use

Our report is intended solely for the information and use of the State of Alaska Teachers' Retirement System management, the members of the Alaska Retirement Management Board, State of Alaska Teachers' Retirement System Defined Benefit Pension Plan employers and nonemployers, and their auditors, and is not intended to be and should not be used by anyone other than these specified parties.



Anchorage, Alaska April 26, 2019

Schedule of Employer and Nonemployer Allocations

As and for the year ended of June 30, 2018

Employer/nonemployer	Employer number	Present value of projected future contributions	Allocation percentage
Employers:		<u> </u>	porcontago
Anchorage School District	701	\$ 254,202,000	13.88626 %
Cordova City School District	704	2,142,000	0.11701
Craig City School District	705	2,375,000	0.12974
Fairbanks North Star Borough School District	706	71,052,000	3.88135
Haines Borough School District	707	1,618,000	0.08839
Hoonah City School District	708	593,000	0.03239
Hydaburg City School District	709	625,000	0.03414
Juneau Borough School District	710	26,973,000	1.47345
Kake City School District	712	716,000	0.03911
Ketchikan Gateway Borough School District	714	14,034,000	0.76663
Klawock City School District	717	1,235,000	0.06746
Kodiak Island Borough School District	718	14,515,000	0.79291
Nenana City School District	719	2,124,000	0.11603
Nome City School District	720	3,900,000	0.21304
Matanuska-Susitna Borough School District	722	94,658,000	5.17087
Pelican City School District	723	64,000	0.00350
Petersburg City School District	724	3,125,000	0.17071
Sitka Borough School District	727	8,504,000	0.46455
Skagway City School District	728	866,000	0.04731
Unalaska City School District	729	2,470,000	0.13493
Valdez City School District	730	5,004,000	0.27335
Wrangell Public School District	731	1,671,000	0.09128
Yakutat School District	732	486,000	0.02655
University of Alaska	733	30,663,000	1.67502
Galena City School District	735	5,570,000	0.30427
North Slope Borough School District	736	14,137,000	0.77226
State of Alaska	737	12,247,000	0.66902
Bristol Bay Borough School District	742	626,000	0.03420
Southeast Regional Resource Center	743	650,000	0.03551
Dillingham City School District	744	3,067,000	0.16754
Kenai Peninsula Borough School District	746	47,873,000	2.61515
Saint Mary's School District	748	1,272,000	0.06949
Northwest Arctic Borough School District	751	13,796,000	0.75363
Bering Strait School District	752	16,254,000	0.88791
Lower Yukon School District	753	12,913,000	0.70540
Lower Kuskokwim School District	754	26,676,000	1.45723
Kuspuk School District	755	2,584,000	0.14116
Southwest Region School District	756	5,154,000	0.28155
Lake And Peninsula Borough School District	757	3,703,000	0.20228
Aleutian Region School District	758	330,000	0.01803
Pribilof School District	759	569,000	0.03108
Iditarod Area School District	761	1,427,000	0.07795
Yukon / Koyukuk School District	762	4,332,000	0.23664
Yukon Flats School District	763	2,055,000	0.11226
Denali Borough School District	764	2,269,000	0.12395
Delta/Greely School District	765	3,960,000	0.21632
Alaska Gateway School District	766	2,581,000	0.14099
Copper River School District	767	1,614,000	0.08817

Schedule of Employer and Nonemployer Allocations
As and for the year ended of June 30, 2018

Employer/nonemployer	Employer number	0	resent value f projected future ontributions	Allocation percentage
Chatham School District	768	\$	1,172,000	0.06402 %
Southeast Island School District	769		1,654,000	0.09035
Annette Island School District	770		2,002,000	0.10936
Chugach School District	771		1,349,000	0.07369
Tanana School District	775		277,000	0.01513
Kashunamiut School District	777		1,740,000	0.09505
Yupiit School District	778		3,005,000	0.16415
Special Education Service Agency	779		846,000	0.04621
Aleutians East Borough School District	780		2,175,000	0.11881
Total present value of projected future employer contributions		7	743,494,000	40.61474
Total Nonemployer:				
State of Alaska	999	1,0	087,107,000	59.38526
Total for all entities		\$	330,601,000	100.00000 %

See accompanying notes to schedule of employer and nonemployer allocations and schedule of pension amounts by employer and nonemployer.

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STATE OF ALASKA TEACHERS' RETIREMENT SYSTEM DEFINED BENEFIT PENSION PLAN Schedule of Pension Amounts by Employer and Nonemployer

As of and for the year ended June 30, 2018

Deferred outflows of resources

Employer/nonemployer	Employer/ nonemployer number	Net pension liability	Changes of assumptions	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred outflows of resources
Employer:						
Anchorage School District	701	\$ 265,828,687	_	8,786,367	6,696,666	15,483,033
Cordova City School District	704	2,239,971	_	74,037	206,606	280,643
Craig City School District	705	2,483,628	_	82,091	164,657	246,748
Fairbanks North Star Borough School District	706	74,301,775	_	2,455,877	1,909,927	4,365,804
Haines Borough School District Hoonah City School District	707 708	1,692,004 620,123	_	55,925 20,497	45,823	101,748 20,497
Hydaburg City School District	709	653,586	_	21,603	23.574	45,177
Juneau Borough School District	710	28,206,691	_	932,308	419,486	1,351,794
Kake City School District	712	748,748	_	24,748	_	24,748
Ketchikan Gateway Borough School District	714	14,675,887	_	485,078	482,138	967,216
Klawock City School District	717	1,291,486	_	42,687	71,176	113,863
Kodiak Island Borough School District	718	15,178,887	_	501,704	824,755	1,326,459
Nenana City School District Nome City School District	719 720	2,221,147 4,078,378	_	73,415 134,802	86,143	159,558 134,802
Matanuska-Susitna Borough School District	722	98,987,466	_	3,271,806	2,815,068	6,086,874
Pelican City School District	723	66,927	_	2,212	1,224	3,436
Petersburg City School District	724	3,267,931	_	108,014	61,935	169,949
Sitka Borough School District	727	8,892,956	_	293,936	188,533	482,469
Skagway City School District	728	905,609	_	29,933	7,104	37,037
Unalaska City School District	729 730	2,582,973	_	85,374	31,536	116,910
Valdez City School District Wrangell Public School District	730	5,232,873 1,747,428		172,961 57,757	305,211	478,172 57,757
Yakutat School District	732	508,229	_	16,798	_	16,798
University of Alaska	733	32,065,464	_	1,059,851	286,226	1,346,077
Galena City School District	735	5,824,761	_	192,524	286,436	478,960
North Slope Borough School District	736	14,783,598	_	488,638	714,412	1,203,050
State of Alaska	737	12,807,153	_	423,311	40.074	423,311
Bristol Bay Borough School District Southeast Regional Resource Center	742 743	654,632 679,730	_	21,637 22,467	16,371	38,008 22,467
Dillingham City School District	744	3,207,278	_	106,009	_	106,009
Kenai Peninsula Borough School District	746	50,062,615	_	1,654,706	1,398,059	3,052,765
Saint Mary's School District	748	1,330,179	_	43,966	104,568	148,534
Northwest Arctic Borough School District	751	14,427,001	_	476,852	465,582	942,434
Bering Strait School District	752	16,997,425	_	561,811	1,013,688	1,575,499
Lower Yukon School District Lower Kuskokwim School District	753 754	13,503,615 27,896,106	_	446,331 922,042	726,279 932.403	1,172,610 1,854,445
Kuspuk School District	755	2,702,187	_	89,315	332,403	89,315
Southwest Region School District	756	5,389,734	_	178,145	525,098	703,243
Lake And Peninsula Borough School District	757	3,872,368	_	127,992	263,824	391,816
Aleutian Region School District	758	345,094	_	11,406	12,328	23,734
Pribilof School District	759	595,025	_	19,667	61,513	81,180
Iditarod Area School District Yukon / Koyukuk School District	761 762	1,492,268 4,530,137	_	49,324 149,733	67,585 187,980	116,909 337,713
Yukon Flats School District	763	2,148,992	_	71,030	113,917	184,947
Denali Borough School District	764	2,372,779	_	78,427	91,358	169,785
Delta/Greely School District	765	4,141,122	_	136,875	113,314	250,189
Alaska Gateway School District	766	2,699,050	_	89,211	133,831	223,042
Copper River School District	767	1,687,821	_	55,787	_	55,787
Chatham School District Southeast Island School District	768 769	1,225,605 1,729,651	_	40,510 57,170	85,455	40,510 142,625
Annette Island School District	770	2,093,567	_	69,198	656	69,854
Chugach School District	771	1,410,701	_	46,628	11,164	57,792
Tanana School District	775	289,669	_	9,574	_	9,574
Kashunamiut School District	777	1,819,584	_	60,142	.	60,142
Yupiit School District	778	3,142,443	_	103,866	363,862	467,728
Special Education Service Agency Aleutians East Borough School District	779 780	884,694 2,274,480	_	29,242 75,178	22,035 60,912	51,277 136,090
<u> </u>	700					
Total attributable to employer contributions		777,499,918		25,698,495	22,400,418	48,098,913
Nonemployer:						
State of Alaska	999	1,136,829,082		37,575,305		37,575,305
Total for all entities		\$_1,914,329,000		63,273,800	22,400,418	85,674,218

See accompanying notes to schedule of employer and nonemployer allocations and schedule of pension amounts by employer and nonemployer.

	Deferred inflow	s of resources			Pension expense	
					Net amortization	
					of deferred	
					amounts	
		Changes in			from changes	
		proportion and			in proportion	
		differences			and differences	
		between			between	
					emplover	
		employer				
Difference		contributions		Proportionate	contributions	
between		and	Total	share of	and	
expected		proportionate	deferred	allocable	proportionate	Total pension
and actual	Changes of	share of	inflows of	plan pension	share of	expense
experience	assumptions	contributions	resources	expense	contributions	(benefit)
7,495,672	_	_	7,495,672	12,341,037	(20,457,881)	(8,116,844)
63,161	_	_	63,161	103,990	129,395	233,385
70,032	_	_	70,032	115,302	16,424	131,726
2,095,115	_	_	2,095,115	3,449,443	(7,325,171)	(3,875,728)
47,710	_	_	47,710	78,551	(69,665)	8,886
17,486	_	157,804	175,290	28,789	(233,388)	(204,599)
18,429		101,004	18,429	30,343	71,188	101,531
	_	_				
795,355	_		795,355	1,309,489	(2,109,638)	(800,149)
21,113		107,638	128,751	34,760	(216,640)	(181,880)
413,822	_	_	413,822	681,325	(771,658)	(90,333)
36,417	_	_	36,417	59,957	(10,578)	49,379
428,005	_	_	428,005	704,676	(63,869)	640,807
62,631	_	_	62,631	103,116	(89,367)	13,749
115,000	_	13,899	128,899	189,338	(666,596)	(477,258)
2,791,187	_	,	2,791,187	4,595,471	(6,093,607)	(1,498,136)
1,887			1,887			
	_	_		3,107	(719)	2,388
92,147	_	_	92,147	151,713	(119,484)	32,229
250,758	_	_	250,758	412,853	(608,244)	(195,391)
25,536	_	_	25,536	42,043	(30,566)	11,477
72,833	_	_	72,833	119,914	(384,224)	(264,310)
147,553	_	_	147,553	242,935	83,053	325,988
49,273	_	14.481	63,754	81,124	(154,402)	(73,278)
14,331	_	1,995	16,326	23,594	(92,880)	(69,286)
904,162		-,,,,,,	904,162	1,488,632	(4,636,694)	(3,148,062)
	_	_				
164,243	_	_	164,243	270,413	(29,665)	240,748
416,859	_		416,859	686,325	(1,346,080)	(659,755)
361,128		20,978	382,106	594,569	(761,184)	(166,615)
18,459	_	_	18,459	30,391	(108,433)	(78,042)
19,167	_	10,986	30,153	31,556	2,021	33,577
90,437	_	68,341	158,778	148,897	(579,529)	(430,632)
1,411,634	_	_	1,411,634	2,324,146	(4,778,966)	(2,454,820)
37,508	_	_	37,508	61,753	100,043	161,796
406,804	_	_	406,804	669,770	(787,264)	(117,494)
479,283		_	479,283	789,102	253,597	1,042,699
380,767			380,767	626,902		
					(1,053,908)	(427,006)
786,597	_	F0 007	786,597	1,295,070	(1,332,371)	(37,301)
76,195	_	52,627	128,822	125,448	(491,587)	(366,139)
151,976	_	_	151,976	250,217	128,896	379,113
109,191			109,191	179,774	(148,892)	30,882
9,731	_	_	9,731	16,021	(5,614)	10,407
16,778	_	_	16,778	27,624	34,912	62,536
42,078	_	_	42,078	69,278	(496,423)	(427,145)
127,738	_	_	127,738	210,311	(567,218)	(356,907)
60,596	_	_	60,596	99,766	(192,423)	(92,657)
66,906	_		66,906	110,156		
,			,		52,153	162,309
116,769		_	116,769	192,251	(216,428)	(24,177)
76,106	_		76,106	125,303	(230,228)	(104,925)
47,592	_	53,378	100,970	78,357	(404,056)	(325,699)
34,559	_	28,198	62,757	56,898	(102,570)	(45,672)
48,772	_	_	48,772	80,299	(197,131)	(116,832)
59,033	_	_	59,033	97,193	(490,773)	(393,580)
39,778			39,778	65,491	(117,613)	(52,122)
8,168		58,021	66,189	13,448	(85,786)	(72,338)
51,308		12,041	63,349	84,474	(248,562)	(164,088)
		12,041				
88,609	_	_	88,609	145,887	(292,174)	(146,287)
24,941	_	_	24,941	41,072	(86,299)	(45,227)
64,134			64,134	105,593	(117,882)	(12,289)
21,923,459	_	600,387	22,523,846	36,095,257	(58,532,648)	(22,437,391)
,,,			,,,	,500,201	(,,)	(==, :01,001)
32,055,600	_	21,800,031	53,855,631	52,777,034	58,532,648	111,309,682
53,979,059		22,400,418	76,379,477	88,872,291		88,872,291
,,0,000		,.50,110	,,.,	,5,2,251		,-,-,,-

Notes to Schedule of Employer and Nonemployer Allocations and Schedule of Pension Amounts by Employer and Nonemployer

June 30, 2018

(1) Plan Description

The State of Alaska Teachers' Retirement System (the System) Defined Benefit Pension Plan (the Plan) is a cost-sharing multiple-employer defined benefit pension plan that provides pension benefits for teachers and other eligible members.

Benefit and contribution provisions are established by Chapter 14 of Alaska Statute Title 14, and may be amended only by the state legislature. The 24th Alaska State Legislature enacted into law Senate Bill 141, which closed the Plan to new members effective July 1, 2006.

There are two tiers within the Plan:

- Tier 1 employees: Employees hired between July 1, 1955 and June 30, 1990
- Tier 2 employees: Employees hired between July 1, 1990 and June 30, 2006

Vested members hired prior to July 1, 1990 are entitled to pension benefits beginning at normal retirement age, 55, or early retirement age, 50. For members hired after June 30, 1990, the normal and early retirement ages are 60 and 55, respectively. Members may also retire at any age and receive a normal benefit when they accumulate the required credited service.

The normal annual pension benefit is based on years of service and average base salary. The average base salary is based upon the members' three highest contract years' salaries.

The benefit related to all years of credited service prior to July 1, 1990 and for years of service through a total of 20 years is equal to 2% of the employee's average base salary. The benefit for each year over 20 years of service subsequent to June 30, 1990 is equal to 2.5% of the employee's base salary.

Minimum benefits for members eligible for retirement are \$25 per month for each year of credited service.

Married members must receive their benefits in the form of a joint and survivor annuity unless their spouse consents to another form of benefit or benefits are payable under the 1% supplemental contributions provision.

The Plan has two types of postretirement pension adjustments (PRPA). The automatic PRPA is issued annually to all eligible benefit recipients when the cost of living increases in the previous calendar year. The automatic PRPA increase is paid beginning July 1 of each year. The discretionary PRPA may be granted to eligible recipients by the Plan's administrator if the cost of living in the previous calendar year rises and the financial condition of the Plan's permits. If both an automatic and discretionary PRPA are granted, and a retiree is eligible for both adjustments, the one that provides the retiree the greater increase will be paid.

Notes to Schedule of Employer and Nonemployer Allocations and Schedule of Pension Amounts by Employer and Nonemployer

June 30, 2018

(2) Basis of Presentation

The schedule of employer and nonemployer allocations and the schedule of pension amounts by employer and nonemployer (collectively, the Schedules) present amounts that are considered elements of the financial statements of the Plan, its participating employers, or the State of Alaska (State) as a nonemployer entity. Accordingly, they do not purport to be a complete presentation of the financial position or changes in financial position of the Plan, its participating employers, or the State. The amounts presented in the Schedules are prepared in accordance with U.S. generally accepted accounting principles. Such preparation requires management of the Plan to make a number of estimates and assumptions relating to the reported amounts. Due to the inherent nature of these estimates, actual results could differ from those estimates.

(3) Allocation Methodology

GASB Statement No. 68, Accounting and Financial Reporting for Pensions, requires participating employers in the Plan to recognize their proportionate share of the collective net pension liability, collective deferred outflows of resources, collective deferred inflows of resources and collective employer pension expense. The employer and nonemployer allocation percentages presented in the schedule of employer and nonemployer allocations and applied to amounts presented in the schedule of pension amounts by employer and nonemployer are based on the ratio of the present value of projected future contributions for each employer to the total present value of projected future contributions for the fiscal years 2019 to 2039 to the Plan. Employer and nonemployer allocation percentages have been rounded for presentation purposes; therefore, amounts presented in the schedule of pension amounts by employer and nonemployer may result in immaterial differences.

(4) Contributions

Employer contributions are actuarially determined and adopted by the Alaska Retirement Management Board (Board). As set by Alaska Statute 14.25.070(a), employer contributions were 12.56% of annual payroll for the fiscal year 2018.

Alaska Statute 14.25.085 requires the State, as a nonemployer contributing entity, to contribute each July 1, or as soon after July 1 for the ensuing fiscal year, an amount that when combined with the total employer contributions is sufficient to pay the Plan's past service liability at the actuarially determined contribution rate adopted by the Board for that fiscal year.

Notes to Schedule of Employer and Nonemployer Allocations and Schedule of Pension Amounts by Employer and Nonemployer

June 30, 2018

(5) Collective Net Pension Liability

Components of Net Pension Liability

The components of the net pension liability of the Plan as of June 30, 2018, is as follows:

Total pension liability	\$	7,387,056,000
Plan fiduciary net position	_	(5,472,727,000)
Net pension liability	\$	1,914,329,000

The total pension liability for the June 30, 2018 measurement date was determined by an actuarial valuation as of June 30, 2017, which was rolled forward to June 30, 2018. This actuarial valuation used the following actuarial assumptions:

Inflation 3.12%

Salary increases Graded by service, from 8.11% to 3.87%

Investment rate of return 8.00%, net of pension plan investment expenses. This is based

on an average inflation rate of 3.12% and a real return of 4.88%.

Mortality Posttermination mortality rates were based on 94% of the male

rates and 97% of the female rates of the RP-2000 Mortality Table, 2000 Base Year projected to 2018 with Projection Scale BB, with a three-year setback for males and four-year setback for females. The rates for pretermination mortality were 68% of the male rates and 60% of female relates of the posttermination mortality rates. Deaths are assumed to result

from nonoccupational causes 85% of the time.

The actuarial assumptions used in the June 30, 2017 actuarial valuation were based on the results of an actuarial experience study for the period July 1, 2009 to June 30, 2013. The assumptions used in the June 30, 2017 actuarial valuation report are the same as those used in the June 30, 2016 actuarial valuation.

Notes to Schedule of Employer and Nonemployer Allocations and Schedule of Pension Amounts by Employer and Nonemployer

June 30, 2018

Long-term Expected Rate of Return

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighing the expected future real rates of return by an asset allocation percentage, which is based on the nature and mix of current and expected plan investments, and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the Plan's target asset allocation is summarized in the following table (note that the rates shown below exclude the inflation component):

Asset class	Long-term expected real rate of return
Domestic equity	8.90%
Global ex-U.S. equity	7.85
Fixed Income	1.25
Opportunistic	4.76
Real assets	6.20
Absolute return	4.76
Private equity	12.08
Cash equivalents	0.66

Discount Rate

The discount rate used to measure the total pension liability was 8.00%. The projection of cash flows used to determine the discount rate assumed that employer and nonemployer contributions will continue to follow the current funding policy, which meets State statutes. Based on those assumptions, the Plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

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

The following presents the collective net pension liability of the Plan as of June 30, 2018, calculated using the discount rate of 8.00%, as well as what the Plan's net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower or 1-percentage-point higher than the current rate:

Current discou 1% Decrease (7%) rate (8%)		unt 1% Increase (9%)			
\$ 2,738,519,000	1,914,329,000	1,220,808,000			

Notes to Schedule of Employer and Nonemployer Allocations and Schedule of Pension Amounts by Employer and Nonemployer

June 30, 2018

(6) Collective Deferred Outflows of Resources and Deferred Inflows of Resources

The following presents a summary of changes in the collective deferred outflows of resources and deferred inflows of resources (excluding employer specific amounts) for the year ended June 30, 2018:

	Year of deferral	Amortization period	 Beginning of year balance	Additions	Deductions	End of year balance
Deferred outflows of resources: Difference between projected and actual earnings on						
pension plan investments	2014	5 years	\$ (66,935,592)	_	(66,935,592)	_
	2015	5 years	86,736,000	_	43,368,000	43,368,000
	2016	5 years	264,503,400	_	88,167,800	176,335,600
	2017	5 years	(191,647,200)	_	(47,911,800)	(143,735,400)
	2018	5 years		(15,868,000)	(3,173,600)	(12,694,400)
Total deferred outflows of resources			\$ 92,656,608	(15,868,000)	13,514,808	63,273,800
Deferred inflows of resources: Difference between expected						
and actual experience	2016	2.1 years	\$ 2,651,524	_	2,651,524	_
	2017	1.9 years	31,148,052	_	31,148,052	_
	2018	1.7 years		131,092,000	77,112,941	53,979,059
Total deferred inflows of						
resources			\$ 33,799,576	131,092,000	110,912,517	53,979,059

Amounts reported as deferred outflows of resources and deferred inflows of resources (employer specific amounts) related to pensions will be recognized in pension expense, as follows:

Year ending June 30:		
2019	\$	26,471,341
2020		37,082,400
2021		(51,085,400)
2022		(3,173,600)
2023	_	
Total	\$_	9,294,741

Notes to Schedule of Employer and Nonemployer Allocations and Schedule of Pension Amounts by Employer and Nonemployer June 30, 2018

(7) Collective Pension Expense

The components of the collective pension expense (excluding employer specific amounts) for the year ending June 30, 2018 are as follows:

Service cost	\$	64,961,000
Interest on total pension liability		572,791,000
Member contributions		(37,674,000)
Administrative expense		3,050,000
Expected investment return net of investment expenses		(416,675,000)
Other		(183,000)
Recognition (amortization) of deferred outflows/inflows of resources:		
Difference between projected and actual investment earnings on		
pension plan investments		13,514,808
Difference between expected and actual experience		(110,912,517)
Total pension expense	\$_	88,872,291

Supplemental Schedule of Employer Allocations of Special Funding Amounts (Unaudited)

As of and for the year ended June 30, 2018

Employer	Employer number	Present value of projected future State contributions	Employer proportionate share
	704	 277 000 000	24.76272.0/
Anchorage School District	701 704	\$ 377,908,000	34.76272 %
Cordova City School District	704 705	3,185,000	0.29298
Craig City School District	705	3,527,000	0.32444
Fairbanks North Star Borough School District	706	105,633,000	9.71689
Haines Borough School District	707	2,409,000	0.22160
Hoonah City School District	708	879,000	0.08086
Hydaburg City School District	709	927,000	0.08527
Juneau Borough School District	710	40,096,000	3.68832
Kake City School District	712	1,061,000	0.09760
Ketchikan Gateway Borough School District	714	20,864,000	1.91922
Klawock City School District	717	1,840,000	0.16926
Kodiak Island Borough School District	718	21,575,000	1.98463
Nenana City School District	719	3,156,000	0.29031
Nome City School District	720	5,799,000	0.53343
Matanuska-Susitna Borough School District	722	140,721,000	12.94454
Pelican City School District	723	96,000	0.00883
Petersburg City School District	724	4,648,000	0.42756
Sitka Borough School District	727	12,644,000	1.16309
Skagway City School District	728	1,286,000	0.11830
Unalaska City School District	729	3,669,000	0.33750
Valdez City School District	730	7,443,000	0.68466
Wrangell Public School District	731	2,483,000	0.22840
Yakutat School District	732	723,000	0.06651
University of Alaska	733	45,584,000	4.19315
Galena City School District	735	8,282,000	0.76184
North Slope Borough School District	736	21,016,000	1.93320
State of Alaska	737	,, , , , , , , , , , , , , , , , , , ,	
Bristol Bay Borough School District	742	929,000	0.08546
Southeast Regional Resource Center	743	966,000	0.08886
Dillingham City School District	744	4,560,000	0.41946
Kenai Peninsula Borough School District	746	71,168,000	6.54655
Saint Mary's School District	748	1,892,000	0.17404
Northwest Arctic Borough School District	751	20,509,000	1.88657
Bering Strait School District	752	24,163,000	2.22269
Lower Yukon School District	753	19,197,000	1.76588
Lower Kuskokwim School District	754	39,659,000	3.64812
Kuspuk School District	755	3,847,000	0.35388
Southwest Region School District	756	7,664,000	0.70499
Lake And Peninsula Borough School District	757	5,505,000	0.50639
Aleutian Region School District	758	493,000	0.04535
	756 759		
Pribilof School District	759 761	850,000	0.07819
Iditarod Area School District		2,120,000	0.19501
Yukon / Koyukuk School District	762	6,435,000	0.59194
Yukon Flats School District	763 764	3,059,000	0.28139
Denali Borough School District	764	3,372,000	0.31018
Delta/Greely School District	765	5,889,000	0.54171
Alaska Gateway School District	766	3,835,000	0.35277
Copper River School District	767	2,403,000	0.22105
Chatham School District	768	1,741,000	0.16015
Southeast Island School District	769	2,460,000	0.22629

Supplemental Schedule of Employer Allocations of Special Funding Amounts (Unaudited)

As of and for the year ended June 30, 2018

Employer	Employer number	. <u>-</u>	Present value of projected future State contributions	Employer proportionate share
Annette Island School District	770	\$	2,976,000	0.27374 %
Chugach School District	771		2,004,000	0.18434
Tanana School District	775		414,000	0.03808
Kashunamiut School District	777		2,589,000	0.23816
Yupiit School District	778		4,470,000	0.41118
Special Education Service Agency	779		1,252,000	0.11517
Aleutians East Borough School District	780	_	3,232,000	0.29730
		\$_	1,087,107,000	100.00000 %

See accompanying independent auditors' report

Supplemental Schedule of Special Funding Amounts by Employer (Unaudited)

As of and for the year ended June 30, 2018

Employer	Employer number	_	State proportionate share of net pension liability attributable to employer	_	Employer pension expense and related revenue attributable to special funding situation
Anchorage School District	701	\$	395,192,750	\$	18,346,734
Cordova City School District	704	·	3,330,675		154,626
Craig City School District	705		3,688,318		171,229
Fairbanks North Star Borough School District	706		110,464,441		5,128,287
Haines Borough School District	707		2,519,183		116,952
Hoonah City School District	708		919,204		42,674
Hydaburg City School District	709		969,399		45,004
Juneau Borough School District	710		41,929,910		1,946,587
Kake City School District	712		1,109,528		51,510
Ketchikan Gateway Borough School District	714		21,818,277		1,012,909
Klawock City School District	717		1,924,158		89,329
Kodiak Island Borough School District	718		22,561,797		1,047,426
Nenana City School District	719		3,300,349		153,218
Nome City School District	720		6,064,235		281,531
Matanuska-Susitna Borough School District	722		147,157,295		6,831,744
Pelican City School District	723		100,391		4,661
Petersburg City School District	724		4,860,590		225,652
Sitka Borough School District	727		13,222,311		613,843
Skagway City School District	728		1,344,819		62,433
Unalaska City School District	729		3,836,813		178,123
Valdez City School District	730		7,783,428		361,344
Wrangell Public School District	731		2,596,567		120,545
Yakutat School District	732		756,069		35,100
University of Alaska	733		47,668,920		2,213,019
Galena City School District	735		8,660,802		402,076
North Slope Borough School District	736		21,977,229		1,020,288
State of Alaska	737				.= .=.
Bristol Bay Borough School District	742		971,491		45,101
Southeast Regional Resource Center	743		1,010,183		46,898
Dillingham City School District	744		4,768,565		221,380
Kenai Peninsula Borough School District	746		74,423,081		3,455,075
Saint Mary's School District	748		1,978,536		91,853
Northwest Arctic Borough School District	751		21,447,040		995,674
Bering Strait School District	752 752		25,268,167		1,173,069
Lower Yukon School District	753 754		20,075,032		931,979
Lower Kuskokwim School District	754		41,472,923		1,925,371
Kuspuk School District	755 750		4,022,954		186,765
Southwest Region School District	756		8,014,536		372,073
Lake And Peninsula Borough School District	757		5,756,788		267,258

Supplemental Schedule of Special Funding Amounts by Employer (Unaudited)

As of and for the year ended June 30, 2018

Employer	Employer number	_	State proportionate share of net pension liability attributable to employer	_	Employer pension expense and related revenue attributable to special funding situation
Aleutian Region School District	758	\$	515,549	\$	23,934
Pribilof School District	759		888,877		41,266
Iditarod Area School District	761		2,216,965		102,922
Yukon / Koyukuk School District	762		6,729,324		312,407
Yukon Flats School District	763		3,198,912		148,509
Denali Borough School District	764		3,526,228		163,704
Delta/Greely School District	765		6,158,351		285,900
Alaska Gateway School District	766		4,010,405		186,182
Copper River School District	767		2,512,908		116,661
Chatham School District	768		1,820,630		84,522
Southeast Island School District	769		2,572,515		119,428
Annette Island School District	770		3,112,116		144,479
Chugach School District	771		2,095,659		97,290
Tanana School District	775		432,936		20,099
Kashunamiut School District	777		2,707,416		125,691
Yupiit School District	778		4,674,449		217,010
Special Education Service Agency	779		1,309,264		60,782
Aleutians East Borough School District	780		3,379,825	_	156,908
Total for all employers		\$	1,136,829,083	=	52,777,034

See accompanying independent auditors' report

Supplemental Schedule of Employer and Nonemployer Contributions (Unaudited)

For the year ended June 30, 2018

Employer/nonemployer	Employer number	_	Actual contributions
Employers:			
Anchorage School District	701	\$	13,953,834
Cordova City School District	704	Ψ	136,708
Craig City School District	705		141,152
Fairbanks North Star Borough School District	706		4,017,543
Haines Borough School District	707		60,119
Hoonah City School District	708		21,575
Hydaburg City School District	709		45,017
Juneau Borough School District	710		1,535,689
Kake City School District	712		40,686
Ketchikan Gateway Borough School District	714		765,272
Klawock City School District	717		73,149
Kodiak Island Borough School District	718		665,867
Nenana City School District	719		140,642
Nome City School District	720		219,437
Matanuska-Susitna Borough School District	722		5,272,973
Pelican City School District	723		821
Petersburg City School District	724		252,002
Sitka Borough School District	727		508,568
Skagway City School District	728		42,710
Unalaska City School District	729		149,368
Valdez City School District	730		303,737
Wrangell Public School District	731		89,138
Yakutat School District	732		27,948
University of Alaska	733		1,986,247
Galena City School District	735		310,877
North Slope Borough School District	736		620,262
State of Alaska	737		1,004,123
Bristol Bay Borough School District	742		30,208
Southeast Regional Resource Center	743		24,561
Dillingham City School District	744		132,017
Kenai Peninsula Borough School District	746		2,570,793
Saint Mary's School District	748		69,719
Northwest Arctic Borough School District	751		723,018
Bering Strait School District	752		696,010
Lower Yukon School District	753		521,774
Lower Kuskokwim School District	754		1,244,222
Kuspuk School District	755		142,686
Southwest Region School District	756		175,811
Lake And Peninsula Borough School District	757		184,495
Aleutian Region School District	758		12,437
Pribilof School District	759		18,914
Iditarod Area School District	761		68,892
Yukon / Koyukuk School District	762		229,625
Yukon Flats School District	763		93,555
Denali Borough School District	764		133,593

Supplemental Schedule of Employer and Nonemployer Contributions (Unaudited)

For the year ended June 30, 2018

Employer/nonemployer	Employer number		Actual contributions
Delta/Greely School District	765	\$	216,894
Alaska Gateway School District	766		147,901
Copper River School District	767		98,121
Chatham School District	768		62,597
Southeast Island School District	769		71,915
Annette Island School District	770		64,185
Chugach School District	771		90,177
Tanana School District	775		10,038
Kashunamiut School District	777		78,104
Yupiit School District	778		107,494
Special Education Service Agency	779		32,604
Aleutians East Borough School District	780	_	112,452
Total Employer Contributions			40,550,276
Nonemployer:			
State of Alaska	999	_	111,042,261
Total for all entities		\$	151,592,537

See accompanying independent auditor's report