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GASB STATEMENT NO. 74 REPORT

FOR THE GEORGIA STATE EMPLOYEES POST-EMPLOYMENT

HEALTH BENEFIT FUND

PREPARED AS OF JUNE 30, 2020





Cavanaugh Macdonald

CONSULTING, LLC

The experience and dedication you deserve

December 9, 2020

Georgia Department of Community Health
2 Peachtree Street, N.W., 34th Floor
Atlanta, GA 30303-3159

Dear Members of the Board:

Presented in this report is information to assist the Georgia State Employees Post-employment Health Benefit Fund in meeting the requirements of the Governmental Accounting Standards Board (GASB) Statement No. 74. The information is presented for the one-year period ending June 30, 2020. These calculations have been made on a basis that is consistent with our understanding of these accounting standards.

The annual actuarial valuation performed as of June 30, 2019 was used as the basis for much of the information presented as of June 30, 2020 in this report. The valuation was based upon data furnished by the State pension retirement systems and the Georgia Department of Community Health staff, concerning active, inactive, and retired members along with pertinent claims data and financial information. This information was reviewed for completeness and internal consistency, but was not audited. The valuation results depend on the integrity of the data. If any of the information is inaccurate or incomplete our results may be different and our calculations may need to be revised. In the June 30, 2019 valuation, 568 active members out of over 50,000 total active members were missing information regarding entry age, so entry age was assumed to be equal to current age for valuation purposes. 11 active members were missing information regarding gender, so gender was assumed to be female.

To the best of our knowledge, the information contained in this report is complete and accurate. These calculations were performed by, and under the supervision of, independent consulting actuaries with experience in performing valuations for public retirement systems. In addition, the valuation was prepared in accordance with generally accepted actuarial principles and practices as well as with Actuarial Standards of Practice prescribed by the Actuarial Standards Board.

Our calculation of the liability associated with the benefits described in this report was performed for the purpose of providing reporting and disclosure information that satisfies the requirements of GASB Statement No. 74. The calculation of the plan's liability for this report may not be applicable for funding purposes of the plan. A calculation of the plan's liability for purposes other than satisfying the requirements of GASB No. 74 may produce significantly different results.



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We are members of the American Academy of Actuaries and meet the Qualification Standards to render the actuarial opinion contained herein. We are available to answer any questions on the material contained in this report or to provide explanations or further details as may be appropriate. The valuations were prepared in accordance with principles of practice prescribed by the Actuarial Standards Board, and the actuarial calculations were performed by qualified actuaries in accordance with accepted actuarial procedures, based on the current provisions of the medical plans and on actuarial assumptions that are internally consistent and reasonably based on the actual experience of each plan and are expected to reasonably estimate future experience of the plan.

Respectfully submitted,

A handwritten signature in blue ink that reads 'Alisa Bennett'.

Alisa Bennett, FSA, EA, FCA, MAAA
President

A handwritten signature in blue ink that reads 'Ben Mobley'.

Ben Mobley, ASA, FCA, MAAA
Senior Actuary

AB:JF



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Section I – Summary of Principal Results

**REPORT OF THE ANNUAL GASB STATEMENT NO. 74
REQUIRED INFORMATION FOR THE
GEORGIA STATE EMPLOYEES POST-EMPLOYMENT HEALTH BENEFIT FUND
PREPARED AS OF JUNE 30, 2020**

Valuation Date (VD):	June 30, 2019
Prior Measurement Date:	June 30, 2019
Measurement Date (MD):	June 30, 2020
Membership Data as of June 30, 2019:	
Inactive Members or Beneficiaries Currently Receiving Benefits	38,447
Active Members*	<u>50,509</u>
Total Membership	88,956
Discount Rate:	
Long-Term Expected Rate of Return	7.30%
Municipal Bond Index Rate at Measurement Date	2.21%
Municipal Bond Index Rate at Prior Measurement Date	3.50%
Year in which Fiduciary Net Position is Projected to be Depleted	2073
Single Equivalent Interest Rate at Measurement Date	7.06%
Single Equivalent Interest Rate at Prior Measurement Date	7.30%
Net OPEB Liability:	
Total OPEB Liability (TOL)	\$ 2,792,919,183
Fiduciary Net Position (FNP)	<u>1,667,521,273</u>
Net OPEB Liability (NOL = TOL – FNP)	\$ 1,125,397,910
FNP as a percentage of TOL	59.71%

*In addition to the membership shown above, 14,153 active members are currently waiving health coverage. 20% of current waivers are assumed to eventually elect health coverage and potentially be eligible for OPEB benefits.



Section II – Introduction

The Governmental Accounting Standards Board (GASB) issued Statement No. 74 (GASB 74), “*Financial Reporting for Postemployment Benefit Plans other than Pension Plans*,” in June 2015. The effective date for reporting under GASB 74 is plan years beginning after June 15, 2016. This report has been prepared as of June 30, 2020 (the Measurement Date) to assist the Georgia State Employees Postemployment Benefit Fund (Fund) in better understanding the requirements of GASB 74 and to identify the information to be provided by the Plan’s actuary, Cavanaugh Macdonald Consulting (CMC). Much of the material provided in this report is based on the data, assumptions, and results of the annual actuarial valuation of the Plan as of June 30, 2019.

GASB 74 requires the determination of the Total OPEB Liability (TOL) utilizing the Entry Age Normal actuarial cost method. The Net OPEB Liability (NOL) is then set equal to the TOL minus the Plan’s Fiduciary Net Position (FNP) (basically the market value of assets). The benefit provisions recognized in the calculation of the TOL are summarized in Schedule B.

Among the assumptions needed for the liability calculation is a Single Equivalent Interest Rate (SEIR), as described by GASB 74. To determine the SEIR, the FNP must be projected into the future for as long as there are anticipated benefits payable under the plan’s provisions applicable to the members and beneficiaries of the Plan on the Measurement Date. If the FNP is not projected to be depleted at any point in the future, the long term expected rate of return on plan investments expected to be used to finance the benefit payments may be used as the SEIR.

If, however, the FNP is projected to be depleted, the SEIR is determined as the single rate that will generate a present value of benefit payments equal to the sum of the present value determined by discounting all projected benefit payments through the date of depletion by the long term expected rate of return, and the present value determined by discounting those benefits after the date of depletion by a 20-year tax-exempt municipal bond (rating AA/Aa or higher) rate (Municipal Bond Index Rate). The Municipal Bond Index Rate used, if necessary, for this purpose is the Bond Buyers General Obligation 20-year Municipal Bond Index Rate (formerly published monthly by the Board of Governors of the Federal Reserve System). The Municipal Bond Index Rate as of June 30, 2020 was 2.21%. For the purpose of this report, we have determined that a discount rate of 7.06% meets the requirements of GASB 74 since the benefit payments are projected to exceed the assets in 2073.

The sections that follow provide the results of all the necessary calculations, presented in the order laid out in GASB 74 for note disclosure and Required Supplementary Information (RSI).



Section III – Financial Statement Notes

The actuarial related information presented herein will follow the order presented in GASB 74. Paragraph numbers are provided for ease of reference.

Paragraphs 34.a. (1)-(3): This information will be supplied by the Fund.

Paragraph 34.a. (4): The data required regarding the membership of the Fund were furnished by the Georgia Department of Community Health. The following table summarizes the membership of the Fund as of June 30, 2019, the date of the valuation used to determine the June 30, 2020 Total OPEB Liability.

Membership

	Number
Inactive Members Or Their Beneficiaries Currently Receiving Benefits	38,447
Inactive Members Entitled To But Not Yet Receiving Benefits	0
Active Members *	<u>50,509</u>
Total	88,956

*In addition to the membership shown above, 14,153 active members are currently waiving health coverage. 20% of current waivers are assumed to eventually elect health coverage and potentially be eligible for OPEB benefits.

Paragraphs 34.a. (5)-(6) and Paragraphs 34.b.-e.: This information will be supplied by the Fund.

Paragraphs 35.a. (1)-(4): As stated earlier, the NOL is equal to the TOL minus the FNP. That result, as of June 30, 2020, is presented in the following table.

Fiscal Year Ending June 30, 2020	
Total OPEB Liability	\$ 2,792,919,183
Fiduciary Net Position	<u>1,667,521,273</u>
Net OPEB Liability	\$ 1,125,397,910
Ratio of Fiduciary Net Position to Total OPEB Liability	59.71%



Section III – Financial Statement Notes (continued)

Paragraph 35.b.: This paragraph requires information regarding the actuarial assumptions used to measure the TOL. The actuarial assumptions utilized in developing the TOL are outlined in Schedule C. The Total OPEB Liability as of June 30, 2020 was determined based on an actuarial valuation prepared as of June 30, 2019, using the following actuarial assumptions, applied to all periods included in the measurement and rolled forward to the measurement date of June 30, 2020:

Salary Increases*	
ERS	3.25 – 7.00%
JRS	4.50%
LRS	N/A
Long-Term Investment Rate of Return*	7.30% compounded annually and net of Investment expense
Municipal Bond Index Rate	2.21%
Year FNP is Projected to be Depleted	2073
Single Equivalent Interest Rate	7.06%
Health Care Cost Trend Rate*	
Initial Trend Rate	
Pre-Medicare Eligible	7.00%
Medicare Eligible	5.25%
Ultimate Trend Rate	
Pre-Medicare Eligible	4.50%
Medicare Eligible	4.50%
Year of Ultimate Trend Rate	
Pre-Medicare Eligible	2029
Medicare Eligible	2023

*Includes inflation at 2.50% which has been lowered from 2.75% in anticipation of the upcoming ERS experience study.

Post-retirement mortality rates were based on the RP-2000 Combined Mortality Table with future mortality improvement projected to 2025 with the Society of Actuaries’ projection scale BB and set forward 2 years for both males and females for service retirements and dependent beneficiaries. The RP-2000 Disabled Mortality Table with future mortality improvement projected to 2025 with Society of Actuaries’ projection scale BB and set back 7 years for males and set forward 3 years for females was used for death after disability retirement. There is a margin for future mortality improvement in the tables used by the System. Based on the results of the most recent experience study adopted by the Board on December 17, 2015, the numbers of expected future deaths are 9-12% less than the actual number of deaths that occurred during the study period for service retirements and beneficiaries and for disability retirements. Rates of mortality in active service were based on the RP-2000 Employee Mortality Table projected to 2025 with projection scale BB.



Section III – Financial Statement Notes (continued)

The actuarial assumptions used in the June 30, 2019 valuation are based on the results of the most recent actuarial experience studies for the pension systems, which covered the five year period ending June 30, 2014 and adopted by the pension Board on December 17, 2015. The next experience study for ERS will be for the period ending June 30, 2019.

Also noted in our experience study report, overall, the number of actual deaths among service retirements and beneficiaries was close to the number of deaths expected, and the number of deaths among disability retirements was somewhat greater than expected during the period under investigation. We recommended continued use of the RP-2000 Combined Mortality Table for service retirements and beneficiaries but in order to provide a margin for anticipated mortality improvement, we recommended projecting the table to 2025 with projection scale BB and setting the table forward 2 years for both males and females. Based on the results of the most recent experience study, the numbers of expected future deaths are 9-12% less than the actual number of deaths that occurred during the study period for service retirements and beneficiaries and for disability retirements, which we believe provides sufficient margin for future mortality improvement.

We are aware that the Society of Actuaries has released a new public sector mortality table, and although we will look at the fit of this table to actual rates of retired member mortality under ERS during the next experience study, we believe that the current assumed rates of mortality remain appropriate for use at this time. The next experience study for ERS will be for the period ending June 30, 2019.

Various assumptions and methods have been revised to reflect the results of the TRS experience investigation for the five-year period ending June 30, 2018. Approximately 6.0% of State Employee OPEB Fund members who are included in the State Employee OPEB Fund Total OPEB Liability participate in the Georgia Teachers Retirement System. Assumptions for these members can be found in the School Employee OPEB Fund report.

The remaining actuarial assumptions (e.g., initial per capita costs, health care cost trends, rate of plan participation, rates of plan election, etc.) used in the June 30, 2019 valuation were based on a review of recent plan experience done concurrently with the June 30, 2019 valuation. The full set of actuarial assumptions used can be found in Schedule C.



Section III – Financial Statement Notes (continued)

The most recent target allocation and best estimates of long-term rates of return provided to us by the Department of Community Health are summarized in the following table:

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return*
Fixed Income	30.00%	0.53%
Equities	70.00%	9.20%
Total	100.00%	

*Net of inflation

Discount rate (SEIR). For the purpose of this report, we have determined that a discount rate of 7.06% meets the requirements of GASB 74, since current assets are less than the expected benefit payments starting with fiscal year 2073.

Paragraph 35.b.(1)

Sensitivity analysis: This paragraph requires disclosure of the sensitivity of the NOL to changes in the health care cost trend rates. The following exhibit presents the NOL of the Fund, calculated using the current health care cost trend rates, as well as the NOL calculated using health care cost trend rates that are 1-percentage-point lower or 1-percentage-point higher than the current rates:

	Health Care Cost Trend Rates		
	1% Decrease	Current	1% Increase
Net OPEB Liability	\$ 845,712,825	\$1,125,397,910	\$1,456,816,392



Section III – Financial Statement Notes (continued)

Paragraph 35.b.(2)

- (a) **Discount rate.** The discount rate used to measure the Total OPEB Liability was 7.06%.
- (b) **Projected cash flows:** The projection of cash flows used to determine the discount rate assumed that plan contributions from members and the State of Georgia will be made at the level projected in the budget projections, which indicated that no additional employer contributions will be made to the Fund in excess of pay as you go benefit payments. Pay as you go benefit payments, adjusted for closed group active headcount estimations, are assumed for the next five years. After that, the plan contribution is assumed to be equal to the average of the plan contributions over the prior five years, adjusted for closed group active headcount estimations.
- (c) **Long term rate of return:** The long-term expected rate of return on OPEB plan investments will be determined based on the allocation of assets by asset class and by the mean and variance of real returns as determined by the investment advisor.
- (d) **Municipal bond rate:** the discount rate determination will use a municipal bond rate to the extent the Fund is projected to run out of money before all benefits are paid.
- (e) **Periods of projected benefit payments:** Projected future benefit payments for all current plan members were projected through 2118.
- (f) **Assumed asset allocation:** The target asset allocation, as provided by the investment consultant was summarized on the prior page.
- (g) **Sensitivity analysis:** This paragraph requires disclosure of the sensitivity of the NOL to changes in the discount rate. The following presents the NOL, calculated using the discount rate of 7.06%, as well as the NOL calculated using a discount rate that is 1-percentage-point lower (6.06%) or 1-percentage-point higher (8.06%) than the current rate:

	Interest Rates		
	1% Decrease (6.06%)	Current Discount Rate (7.06%)	1% Increase (8.06%)
Net OPEB Liability	\$1,410,586,723	\$1,125,397,910	\$ 882,247,661



Section III – Financial Statement Notes (continued)

Paragraph 35.c.: June 30, 2019 is the actuarial valuation date upon which the TOL is based. The result was rolled forward using standard actuarial techniques to the measurement date. The roll forward calculation adds the normal cost (also called the service cost) for the period July 1, 2019 through June 30, 2020, subtracts the actual benefit payments for the same period and then applies the expected investment rate of return for the period. If applicable, actuarial gains and losses arising from benefit changes, the differences between estimates and actual experience, and changes in assumptions or other inputs are reconciled to the TOL as of the Measurement Date. The procedure was used to determine the TOL as of June 30, 2020, as shown in the following table:

TOL Roll Forward		
(a)	TOL as of June 30, 2019*	\$ 2,858,522,167
(b)	Actual Benefit Payments and Refunds for the Period July 1, 2019 - June 30, 2020	(149,922,280)
(c)	Interest on TOL = [(a) x Prior SEIR] + [(b) x Prior SEIR x 0.50]	203,199,955
(d)	Service Cost for the Period July 1, 2019 - June 30, 2020 at the End of the Period	39,825,418
(e)	Change Due to Experience	(185,260,962)
(f)	Change Due to Change in Assumptions	<u>26,554,885</u>
(g)	TOL Rolled Forward to June 30, 2020 = (a) + (b) + (c) + (d) + (e)	\$ 2,792,919,183

* The TOL as of June 30, 2019 used in the roll forward was calculated using the discount rate as of the Prior Measurement Date. The Change Due to Experience is primarily due to claims experience, especially for Medicare eligible members. The Change Due to Change in Assumptions is primarily due to the change in the discount rate.



Section IV – Required Supplementary Information

There are several tables of Required Supplementary Information (RSI) that need to be included in the Plan’s financial statements. Paragraph numbers are provided for ease of reference.

Paragraphs 36.a.-c.: The required tables of schedules are provided in Schedule A.

Paragraph 36.d. and 37: The required schedule presenting the annual money-weighted rates of return is to be supplied by the Plan.

Paragraph 38: The following information should be noted regarding the RSI, particularly for the *Schedule of Employer Contributions*:

Changes in actuarial assumptions:

6/30/2019 valuation: The inflation assumption was lowered from 2.75% to 2.50% in anticipation of the upcoming ERS Experience Study. Additionally, decremental assumptions were changed to reflect the Teachers Retirement Systems experience study. Approximately 6.0% of employees are members of the Teachers Retirement System.

6/30/2017 valuation: The participation assumption, tobacco use assumption and morbidity factors were revised.

6/30/2015 valuation: Decremental and underlying inflation assumptions were changed to reflect the Retirement Systems’ experience studies.

6/30/2012 valuation: A data audit was performed and data collection procedures and assumptions were changed.



Section IV – Required Supplementary Information (continued)

Method and assumptions used in calculations of actuarially determined contributions. The actuarially determined contribution rates in the schedule of employer contributions are calculated as of June 30, three years prior to the end of the fiscal year in which contributions are reported. The following actuarial methods and assumptions were used to determine the most recent contribution rate reported in that schedule:

Actuarial Cost Method	Projected Unit Credit
Amortization Method	Level Percent of Pay, Open
Remaining Amortization Period	30 years
Asset Valuation Method	Market Value of Assets
Investment Rate of Return*	4.50%
Healthcare Cost Trend Rate*	
Initial Trend Rate	
Pre-Medicare Eligible	7.50%
Medicare Eligible	5.50%
Ultimate Trend Rate	
Pre-Medicare Eligible	4.75%
Medicare Eligible	4.75%
Year of Ultimate Trend Rate	
Pre-Medicare Eligible	2028
Medicare Eligible	2022

*Includes inflation at 2.75%.



Schedule A – Required Supplementary Information Tables

**SCHEDULE OF CHANGES IN THE NET OPEB LIABILITY
GASB 74 Paragraph 36.a.**

Fiscal Year Ending June 30	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total OPEB Liability										
Service Cost at the end of the year	\$ 119,685,673	\$ 112,296,929	\$ 63,723,731	\$ 39,825,418						
Interest on TOL and Cash Flows	158,095,696	174,427,008	194,860,309	203,199,955						
Change in benefit terms	0	0	0	0						
Difference between expected and actual experience	0	(267,124,127)	(371,756,790)	(185,260,962)						
Changes of assumptions or other inputs	(383,932,246)	(963,394,129)	(676,764,727)	26,554,885						
Benefit payments*	(162,144,513)	(167,895,537)	(168,992,928)	(149,922,280)						
Refund of contributions	0	0	0	0						
Net change in Total OPEB Liability	\$ (268,295,390)	\$ (1,111,689,856)	\$ (958,930,405)	\$ (65,602,984)						
Total OPEB Liability - beginning	\$ 5,197,437,818	\$ 4,929,142,428	\$ 3,817,452,572	\$ 2,858,522,167						
Total OPEB Liability - ending (a)	\$ 4,929,142,428	\$ 3,817,452,572	\$ 2,858,522,167	\$ 2,792,919,183						
Plan Fiduciary Net Position										
Contributions - employer	\$ 498,201,623	\$ 501,574,024	\$ 534,672,565	\$ 150,489,009						
Contributions - non-employer	0	0	0	0						
Contributions - member	0	0	0	0						
Net investment income	4,695,785	15,300,248	51,687,539	51,937,607						
Benefit payments*	(162,144,513)	(167,895,537)	(168,992,928)	(149,922,280)						
Administrative costs	(2,077,117)	(2,050,531)	(2,025,815)	(2,188,169)						
Refund of contributions	0	0	0	0						
Other	0	0	0	0						
Net change in Plan Fiduciary Net Position	\$ 338,675,778	\$ 346,928,204	\$ 415,341,361	\$ 50,316,167						
Plan Fiduciary Net Position - beginning**	\$ 516,261,377	\$ 854,937,155	\$ 1,201,865,359	\$ 1,617,205,106						
Plan Fiduciary Net Position - ending (b)	\$ 854,937,155	\$ 1,201,865,359	\$ 1,617,206,720	\$ 1,667,521,273						
Net OPEB Liability - ending (a) - (b)	\$ 4,074,205,273	\$ 2,615,587,213	\$ 1,241,315,447	\$ 1,125,397,910						

* Benefit payments are net of member contributions and include claims related expenses.

** The Fiscal Year 2020 beginning Plan Fiduciary Net Position was restated to reflect audit adjustments.



Schedule A – Required Supplementary Information Tables (continued)

**SCHEDULE OF THE NET OPEB LIABILITY
GASB 74 Paragraph 36.b.**

Fiscal Year Ending June 30	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total OPEB Liability	\$ 4,929,142,428	\$ 3,817,452,572	\$ 2,858,522,167	\$ 2,792,919,183						
Plan Fiduciary Net Position	854,937,155	1,201,865,359	1,617,206,720	1,667,521,273						
Net OPEB Liability	\$ 4,074,205,273	\$ 2,615,587,213	\$ 1,241,315,447	\$ 1,125,397,910						
Plan Fiduciary Net Position as a percentage of the Total OPEB Liability	17.34%	31.48%	56.57%	59.71%						
Covered Payroll	\$ 2,483,060,000	\$ 2,535,722,000	\$ 2,802,815,000	\$ 2,797,240,916						
Net OPEB Liability as a percentage of covered payroll	164.08%	103.15%	44.29%	40.23%						



Schedule A – Required Supplementary Information Tables (continued)

SCHEDULE OF EMPLOYER CONTRIBUTIONS
GASB 74 Paragraph 36.c.
(\$ in Thousands)

Fiscal Year Ending June 30	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Actuarially Determined Employer Contribution (ADC)	\$ 210,034	\$ 218,962	\$ 232,161	\$ 202,092	\$ 259,250	\$ 275,681	\$ 321,456	\$ 338,819	\$ 317,100	\$ 327,053
Contributions in relation to the ADC	150,489	534,673	501,574	498,202	574,015	267,235	177,045	181,504	181,899	168,384
Annual contribution deficiency (excess)	\$ 59,545	\$ (315,711)	\$ (269,413)	\$ (296,110)	\$ (314,765)	\$ 8,446	\$ 144,411	\$ 157,315	\$ 135,201	\$ 158,669
Covered Payroll	\$ 2,797,241	\$ 2,802,815	\$ 2,535,722	\$ 2,483,060	\$ 2,404,901	\$ 2,333,060	\$ 2,293,104	\$ 2,328,334	\$ 2,408,000	\$ 2,542,891
Actual contributions as a percentage of covered payroll	5.38%	19.08%	19.78%	20.06%	23.87%	11.45%	7.72%	7.80%	7.55%	6.62%



Schedule B – Summary of Benefit Provisions Valued

State Employee OPEB Fund Eligibility

The following summary gives the main participation, benefit and contribution provisions of the Plan as interpreted in preparing the actuarial valuation.

Retiree medical eligibility is attained when an employee retires, and is immediately eligible to draw a retirement annuity from any of the retirement systems listed below. “Old Plan” means the plan applicable to members beginning employment prior to July 1, 1982. “New Plan” means the plan applicable to members employed on or after July 1, 1982 and before January 1, 2009. “GSEPS” means the plan applicable to members employed on or after January 1, 2009.

- Employees’ Retirement System (GSEP Non-Police)
 - Service Retirement: 25 years of service or age 60 with 10 years of service
 - Disability Retirement: 15 years of service
 - Active Death Surviving Spouse: 15 years of service
- Employees’ Retirement System (GSEP Police)
 - Service Retirement: 30 years of service or age 55 with 10 years of service
 - Disability Retirement: 15 years of service
 - Active Death Surviving Spouse: 13 years and 4 months of service
- Employees’ Retirement System (Police)
 - Service Retirement: 30 years of service or age 55 with 10 years of service
 - Disability Retirement: 13 years and 4 months of service
 - Active Death Surviving Spouse: 13 years and 4 months of service
- Employees’ Retirement System (Old & New Plan Non-Police)
 - Service Retirement: 25 years of service or age 60 with 10 years of service
 - Disability Retirement: 13 years and 4 months of service
 - Active Death Surviving Spouse: 13 years and 4 months of service or age 60 with 10 years of service
- Judicial Retirement System
 - Service Retirement: age 60 with 10 years of service
 - Disability Retirement: 4 years of service
 - Active Death Surviving Spouse: 10 years of service
- Legislative Retirement System
 - Service Retirement: age 60 with 8 years of service
 - Disability Retirement: age 60 with 8 years of service
 - Active Death Surviving Spouse: 15 years of service or age 60 with 8 years of service



Schedule B – Summary of Benefit Provisions Valued (continued)

Retirees from other systems who may be eligible for post-employment benefits other than pensions were included in the valuation if they were included in the DCH census data. Employees with payroll location codes less than 60000 were included in the State Employee OPEB Fund. Approximately 6.0% of these employees are members of the Teachers Retirement System. Information about this System can be found in the GASB 74 report for the School Employee OPEB Fund.

Coverage starts immediately at retirement, provided the retiree makes proper premium payments or has the premiums deducted from the annuity check. If elected, dependent coverage starts on the same day as retiree coverage. A change from single to family coverage as a retiree is allowed only with a qualified change in status.

A tobacco surcharge of \$80 per month is charged to those tobacco users not participating in the Medicare Advantage plans. Of the retirees not participating in the Medicare Advantage plans, it is assumed that 2.5% pay the tobacco surcharge.



Schedule B – Summary of Benefit Provisions Valued (continued)

2020 Plan Options

The plan designs offered for the 2020 plan year are as follows:

For Medicare-eligible members

- UnitedHealthcare Medicare Advantage (MAPD) Plan Options (Standard and Premium)
- Anthem Blue Cross and Blue Shield Medicare Advantage (MAPD) Plan Options (Standard and Premium)

Non-MA Plan Options

- Anthem Gold, Silver, Bronze Health Reimbursement Arrangement (HRA) Plan Options
- Anthem, Kaiser Permanente (KP) and UnitedHealthcare Health Maintenance Organization (HMO) Plan Options
- UnitedHealthcare High Deductible Health Plan (HDHP)

Premiums

Retiree premiums vary based on plan election, dependent coverage, Medicare eligibility and election. Premiums shown are monthly and are effective January 1, 2020.

**STATE HEALTH BENEFIT PLAN
ANNUITANT UNDER 65 RATES
JANUARY 1 - DECEMBER 31, 2020**

	YOU	YOU + CHILD(REN)	YOU + SPOUSE	YOU + FAMILY
Anthem Gold	\$168.73	\$307.13	\$418.09	\$556.50
Anthem Silver	\$110.89	\$208.80	\$296.62	\$394.54
Anthem Bronze	\$72.45	\$143.46	\$215.91	\$286.92
Anthem HMO	\$135.65	\$250.90	\$348.63	\$463.89
UHC HMO	\$172.56	\$313.65	\$426.14	\$567.22
UHC HDHP	\$58.03	\$118.94	\$185.62	\$246.54
Kaiser HMO	\$142.71	\$262.59	\$362.49	\$482.37

The Medicare Advantage Plan monthly retiree premiums for members with Medicare Parts A and B as of January 1, 2020 are as follows. The Fund pays the Medicare Part B late enrollment penalty for members who were required to pay the penalty when the Medicare Advantage plans were first implemented. Future retirees are required to enroll in Medicare Part B when first eligible to avoid the penalty, or be responsible for paying the late enrollment penalty if applicable.

Medicare Advantage Plan	Retiree Premium
UHC Standard MA	\$ 20.00
UHC Premium MA	\$ 128.22
Anthem Standard MA	\$ 146.15
Anthem Premium MA	\$ 182.82



Schedule B – Summary of Benefit Provisions Valued (continued)

For active employees with less than 5 years of service, premiums will be subject to the service based schedule shown below.

CONTRIBUTIONS (Actives with less than five years of service as of January 1, 2012): The Health Benefit Fund will pay a portion of the blended contribution rate for the Bronze Plan or the UHC Premium MA plan based on the retirees’ service at retirement. The retiree or spouse will pay the remainder of the premium for the chosen plan, not less than the premium paid by those with more than five years of service as of January 1, 2012.

Service at Retirement	Health Benefit Fund’s Share of Contribution Rate		Retiree’s Share of Contribution Rate	
	Retiree	Spouse	Retiree	Spouse
30 and above	75%	55%	25%	45%
29	72%	53%	28%	47%
28	69%	51%	31%	49%
27	66%	49%	34%	51%
26	63%	47%	37%	53%
25	60%	45%	40%	55%
24	57%	43%	43%	57%
23	54%	41%	46%	59%
22	51%	39%	49%	61%
21	48%	37%	52%	63%
20	45%	35%	55%	65%
19	42%	33%	58%	67%
18	39%	31%	61%	69%
17	36%	29%	64%	71%
16	33%	27%	67%	73%
15	30%	25%	70%	75%
14	27%	23%	73%	77%
13	24%	21%	76%	79%
12	21%	19%	79%	81%
11	18%	17%	82%	83%
10	15%	15%	85%	85%
9 and below	0%	0%	100%	100%



Schedule B – Summary of Benefit Provisions Valued (continued)

BLENDED CONTRIBUTION RATES: The blended contribution rates used in valuation and trended back to the valuation date are as follows:

2020 Rates				
Medical Plan	Under 65 Retiree with Under 65 Spouse (If Covered)			
	Ret Only	Ret+Ch	Ret+Sp	Family
Anthem HRA Gold	\$749.57	\$1,274.27	\$1,574.10	\$2,098.80
Anthem HRA Silver	\$686.61	\$1,167.24	\$1,441.88	\$1,922.51
Anthem HRA Bronze	\$646.18	\$1,098.51	\$1,356.98	\$1,809.31
Anthem HMO	\$714.50	\$1,214.65	\$1,500.45	\$2,000.60
UHC HMO	\$749.07	\$1,273.42	\$1,573.05	\$2,097.40
UHC HDHP	\$628.02	\$1,067.63	\$1,318.84	\$1,758.45
Kaiser HMO	\$633.50	\$1,076.95	\$1,330.35	\$1,773.79

2020 Medicare Eligible				
Retiree Coverage Tier	Anthem MA Plans		UHC MA Plans	
	MA Prem	MA Std	MA Prem	MA Std
Retiree Only	\$363.80	\$146.15	\$309.20	\$20.00
Retiree & Spouse	\$727.60	\$292.30	\$618.40	\$40.00



Schedule C – Statement of Actuarial Assumptions and Methods

VALUATION DATE: June 30, 2019

DISCOUNT RATE: 7.06% per annum, compounded annually, net of expenses.

AFFORDABLE CARE ACT: The impact of the Affordable Care Act (ACA) was addressed in this valuation. Review of the information currently available did not identify any specific provisions of the ACA that are anticipated to significantly impact results other than plan design features and fees currently mandated by the ACA and incorporated in the plan designs, which are included in the current baseline claims costs. Continued monitoring of the ACA’s impact on the Plan’s liability will be required.

COVID-19: The impact of the COVID-19 pandemic was considered in this valuation; however, no changes were incorporated at this time due to the level of uncertainty regarding the impact on both plan costs and contribution levels going forward. Given the uncertainty regarding COVID-19 (e.g., the impact of routine care being deferred, direct COVID-19 treatment and prevention costs, changes in contribution and budget projections), continued monitoring of the impact on the Plan’s liability will be required.

ANNUAL EXPECTED MEDICAL/RX CLAIMS (AGE ADJUSTED TO AGE 65):

PRE-MEDICARE

Following is a chart detailing expected claims for pre-65 retirees blended based on assumed plan elections and normalized to age 65.

Pre-Medicare*	\$ 14,720

*Retirees selecting one of the HRA plans will also receive annual credits to use for eligible medical expenses. For 2020, the credits are \$400 for the Gold Plan, \$200 for the Silver Plan and \$100 for the Bronze plan. For members participating in the Anthem or UnitedHealthcare plans, wellness credits up to \$480 are available to those completing certain wellness requirements. It is assumed that 50% of eligible plan participants receive the additional wellness credits.

MEDICARE ELIGIBLE

Effective January 1, 2010, the Medicare Advantage Plans are mandatory for Medicare-eligible retirees to receive the State subsidy.



Schedule C – Statement of Actuarial Assumptions and Methods (continued)

The Medicare Advantage Plan monthly retiree premiums for members with Medicare Parts A and B as of January 1, 2020 are as follows:

Medicare Advantage Plan	Retiree Premium
UHC Standard MA	\$ 20.00
UHC Premium MA	\$ 128.22
Anthem Standard MA	\$ 146.15
Anthem Premium MA	\$ 182.82

Following is a chart detailing expected claims costs for Medicare Advantage Plan retirees blended based on assumed plan elections and normalized to age 65. It is assumed that 90% of retirees will choose UHC plans and 10% of retirees will choose Anthem plans. It is further assumed that 35% choose a Premium plan and 65% choose a Standard plan.

2020 premium rates, trended to the valuation date, were used to develop the expected claims costs for Medicare Advantage Plan retirees.

Medicare Advantage*	\$ 1,246
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*Claims costs for current retirees with no Medicare Part A coverage were assumed to be 373% of the claims shown above.

HEALTHCARE COST TREND RATES: Following is a chart detailing trend assumptions:

Year	Pre-65 Retiree Claims Trend	Post-65 Retiree Claims Trend
2019	7.000%	5.250%
2020	6.750	5.125
2021	6.500	5.000
2022	6.250	4.750
2023	6.000	4.500
2024	5.750	4.500
2025	5.500	4.500
2026	5.250	4.500
2027	5.000	4.500
2028	4.750	4.500
2029 and Beyond	4.500	4.500



Schedule C – Statement of Actuarial Assumptions and Methods (continued)

AGE RELATED MORBIDITY: Per capita costs are adjusted to reflect expected cost changes related to age. The increase to the net incurred claims was assumed to be:

Participant Age	Annual Increase
Under 30	0.00%
30 – 34	1.00
35 – 39	1.50
40 – 44	2.00
45 – 49	2.60
50 – 54	3.30
55 – 59	3.60
60 – 64	4.20
65 – 69	3.00
70 – 74	2.50
75 – 79	2.00
80 – 84	1.00
85 – 89	0.50
90 and Over	0.00



Schedule C – Statement of Actuarial Assumptions and Methods (continued)

ANTICIPATED PARTICIPATION: Representative values of the assumed annual rates of member participation and spouse coverage by future retirees are as follows. Members who elect to participate are assumed to participate for the remainder of their lives and no lapses are assumed.

	State
Member Participation*:	
If 5 years of service on 1/1/2012	95%
If less than 5 years of service on 1/1/2012:	
Years of Service at Retirement:	
30+	95%
25-29	90%
20-24	80%
15-19	65%
10-14	50%
Under 10	20%
Spouse Coverage**:	
If retiree had 5 years of service on 1/1/2012	40%
If retiree had less than 5 years of service on 1/1/2012:	
Years of Retiree Service at Retirement:	
30+	32%
25-29	30%
20-24	26%
15-19	20%
10-14	18%
Under 10	8%

* Sufficient experience for developing plan specific participation rates for members with less than 5 years of service on 1/1/2012 has not yet developed, so standard actuarial assumptions for participation based on level of subsidization are used. Active employees currently waiving health coverage are assumed to join the plan at a later date at the rate of 20% and then participate in the same pattern as current participating members. The 20% assumption is based on actual experience using past 4 years of waiver data.

** Wives are assumed to be three years younger than husbands.

ACTUARIAL VALUE OF ASSETS: Market Value



State Employee OPEB Fund Members Participating in the Employees Retirement System of Georgia

SALARY INCREASES:

Age	Assumed Annual Rate of Salary Increase
20	7.00%
25	6.25
30	5.15
35	4.55
40	4.30
45	4.05
50	3.80
55	3.55
60	3.30
65	3.25

SEPARATIONS BEFORE RETIREMENT: The RP-2000 Employee Mortality Table projected to 2025 with projection scale BB is used for both males and females while in active service. Representative values of the assumed annual rates of separation other than retirement are as follows.

Annual Rates of					
Age	Death		Disability		
	Male	Female	Non-Law Enforcement		Law Enforcement
			Male	Female	
20	0.0320%	0.0177%	0.05%	0.02%	0.02%
25	0.0349	0.0192	0.05	0.02	0.05
30	0.0412	0.0245	0.05	0.02	0.08
35	0.0717	0.0441	0.05	0.02	0.16
40	0.1001	0.0655	0.25	0.10	0.85
45	0.1399	0.1043	0.48	0.25	1.40
50	0.1983	0.1555	0.70	0.45	2.00
55	0.2810	0.2228	1.05	0.73	2.70
60	0.4092	0.3058	--	--	--
65	0.5600	0.4304	--	--	--



**State Employee OPEB Fund Members Participating in the
Employees Retirement System of Georgia**

Non-Law Enforcement			
Age	Annual Rates of Withdrawal		
	Years of Service		
	0-4	5-9	10 & Over
	Male		
20	35.00%		
25	27.50	15.00%	
30	23.00	11.50	7.50%
35	21.50	10.00	6.00
40	19.50	9.50	4.75
45	18.60	9.00	4.00
50	16.60	7.25	4.25
55	14.50	7.00	4.75
60	14.00	6.00	
65	15.00	10.00	
	Female		
20	30.00%		
25	25.00	17.50%	
30	21.50	12.50	8.25%
35	19.50	10.50	6.00
40	18.25	9.50	5.00
45	16.50	8.00	4.00
50	15.00	7.25	4.25
55	14.00	7.00	4.50
60	14.50	6.25	
65	17.00	11.00	



State Employee OPEB Fund Members Participating in the Employees Retirement System of Georgia

Law Enforcement		
Age	Annual Rates of Withdrawal Years of Service	
	0-9	10 & Over
20	15.00%	
25	5.75	4.00%
30	5.75	4.00
35	5.75	3.75
40	5.75	3.00
45	5.75	2.00
50	5.75	2.00
55	--	--

RETIREMENT: Representative values of the assumed annual rates of service retirement are as follows.

Non-Law Enforcement Old Plan								
Age	Early Retirement		Age 60 or 30 years		34 years		More than 34 years	
	Male	Female	Male	Female	Male	Female	Male	Female
50	2.0%	2.0%	7.5%	6.0%	100.0%	100.0%	90.0%	100.0%
52	2.0	2.0	7.5	6.0	100.0	100.0	90.0	100.0
55	3.0	3.5	7.5	10.0	100.0	100.0	75.0	90.0
57	3.0	5.0	10.5	10.0	100.0	100.0	70.0	70.0
60			15.0	20.0	97.5	95.0	40.0	55.0
62			32.0	40.0	97.5	95.0	40.0	65.0
65			35.0	40.0	35.0	40.0	35.0	40.0
67			35.0	35.0	35.0	35.0	35.0	35.0
70			35.0	35.0	35.0	35.0	35.0	35.0
75			100.0	100.0	100.0	100.0	100.0	100.0



State Employee OPEB Fund Members Participating in the Employees Retirement System of Georgia

Age	Non-Law Enforcement New Plan and GSEPS				Law Enforcement***
	Early Retirement		Normal Retirement		
	Male	Female	Male*	Female**	
50	7.0%	4.5%	70.0%	50.0%	
52	7.0	4.5	70.0	45.0	
55	7.0	6.5	60.0	50.0	20.0%
57	8.0	8.0	50.0	40.0	12.0
60			25.0	30.0	30.0
62			40.0	40.0	35.0
65			32.0	35.0	25.0
67			32.0	32.0	25.0
70			30.0	30.0	100.0
75			100.0	100.0	

* An additional 10% for ages below 55 and 20% for ages 55 to 59 are assumed to retire in the first year eligible for unreduced retirement with 30 years of service.

** An additional 20% are assumed to retire in the first year eligible for unreduced retirement with 30 years of service before age 60.

*** In addition, 100% are assumed to retire with 30 years of service on or before age 50 and 75% are assumed to retire with 30 years of service after age 50 but before age 55.

DEATHS AFTER RETIREMENT: The RP-2000 Combined Mortality Table projected to 2025 with projection scale BB and set forward 2 years for both males and females is used for the period after service retirement and for dependent beneficiaries. The RP-2000 Disabled Mortality Table projected to 2025 with projection scale BB and set back 7 years for males and set forward 3 years for females is used for the period after disability retirement. There is a margin for future mortality improvement in the tables used by the System. Based on the results of the most recent experience study adopted by the Board on December 17, 2015, the numbers of expected future deaths are 9-12% less than the actual number of deaths that occurred during the study period for service retirements and beneficiaries and for disability retirements.

We are aware that the Society of Actuaries has released a new public sector mortality table, and although we will look at the fit of this table to actual rates of retired member mortality under ERS during the next experience study, we believe that the current assumed rates of mortality remain appropriate for use at this time. The next experience study for ERS will be for the period ending June 30, 2019.



**State Employee OPEB Fund Members Participating in the
Employees Retirement System of Georgia**

Representative values of the assumed annual rates of mortality after service retirement are as follows:

Age	Males	Females	Age	Males	Females
40	0.1127%	0.0790%	65	1.1300%	0.8994%
45	0.1609	0.1230	70	1.8697	1.5281
50	0.2474	0.1872	75	3.2147	2.5220
55	0.4246	0.2918	80	5.5160	4.1628
60	0.6985	0.4923	85	9.5631	7.1239



State Employee OPEB Fund Members Participating in the Georgia Judicial Retirement System

SALARY INCREASES: 4.50% annually

SEPARATIONS BEFORE SERVICE RETIREMENT: Representative values of the assumed annual rates of separation before service retirement are as follows:

Age	Annual Rates of			
	Withdrawal	Death		Disability
		Males	Females	
20	4.0%	.032%	.018%	.03%
25	4.0	.035	.019	.03
30	4.0	.041	.025	.05
35	4.0	.072	.044	.08
40	6.0	.100	.066	.10
45	4.0	.140	.104	.18
50	3.0	.198	.156	.25
55	2.5	.281	.223	.45
60	2.5	.409	.306	.73
65	2.5	.560	.430	1.18

RETIREMENT: The assumed annual rates of retirement are shown below.

Age	Annual Rates of Retirement
60	15%
61	10
62	12
63 – 64	10
65 – 69	15
70 – 74	25
75	100



State Employee OPEB Fund Members Participating in the Georgia Judicial Retirement System

DEATHS AFTER RETIREMENT: Since the System has minimal post-retirement mortality experience, the System uses the same mortality tables used for the Employees' Retirement System of Georgia. The RP-2000 Combined Mortality Table projected to 2025 with projection scale BB and set forward 2 years for both males and females is used for the period after retirement and for dependent beneficiaries. For the period after disability retirement, the RP-2000 Disabled Mortality Table projected to 2025 with projection scale BB and set back 7 years for males and set forward 3 years for females is used. There is a margin for future mortality improvement in the tables used by the System. Based on the results of the most recent experience study adopted by the Board on December 17, 2015, the numbers of expected future deaths are 9-12% less than the actual number of deaths that occurred during the study period for healthy retirees and disabled retirees. Representative values of the assumed annual rates of mortality for service retirements and beneficiaries are as follows:

Age	Males	Females	Age	Males	Females
40	0.113%	0.079%	65	1.130%	0.899%
45	0.161	0.123	70	1.870	1.528
50	0.247	0.187	75	3.215	2.522
55	0.425	0.292	80	5.516	4.163
60	0.699	0.492	85	9.563	7.124



State Employee OPEB Fund Members Participating in the Georgia Legislative Retirement System

SALARY INCREASES: None.

SEPARATIONS BEFORE SERVICE RETIREMENT: Representative values of the assumed annual rates of separation before service retirement are as follows:

Age	Annual Rates of		
	Withdrawal	Death	
		Males	Females
20	8.0%	.032%	.018%
25	8.0	.035	.019
30	8.0	.041	.025
35	8.0	.072	.044
40	8.0	.100	.066
45	8.5	.140	.104
50	8.5	.198	.156
55	9.0	.281	.223
60	9.0	.409	.306
65	9.0	.560	.430

SERVICE RETIREMENT: The assumed annual rates of retirement are shown below:

Age	Annual Rate	Age	Annual Rate
60	10%	66	12%
61	10	67	15
62	15	68	12
63	10	69	12
64	10	70-74	20
65	12	75	100

DEATHS AFTER RETIREMENT: Since the System has minimal post-retirement mortality experience, the System uses the same mortality tables used for the Employees' Retirement System of Georgia. The RP-2000 Combined Mortality Table projected to 2025 with projection scale BB and set forward 2 years for both males and females is used for the period after service retirement and for dependent beneficiaries. Since there are no disability retirements in the System, there are no disability mortality rates utilized at this time. There is a margin for future mortality improvement in the tables used by the System. Based on the results of the most recent experience study adopted by the Board on December 17, 2015, the numbers of expected future deaths are 9-12% less than the actual number of deaths that occurred during the study period for healthy retirees.



**State Employee OPEB Fund Members Participating in the
Georgia Legislative Retirement System**

Representative values of the assumed annual rates of mortality after service retirement are as follows:

Age	Males	Females	Age	Males	Females
40	.113%	.079%	65	1.130%	.899%
45	.161	.123	70	1.870	1.528
50	.247	.187	75	3.215	2.522
55	.425	.292	80	5.516	4.163
60	.699	.492	85	9.563	7.124

Note: Approximately 6% of State Employee OPEB Fund members who are included in the State Employee OPEB Fund Total OPEB Liability participate in the Georgia Teachers Retirement System. Assumptions for these members can be found in the GASB 74 report for the School Employee OPEB Fund as of measurement date June 30, 2020.



Schedule D – Actuarial Cost Method

1. The valuation is prepared on the projected benefit basis, under which the present value, at the interest rate assumed to be earned in the future (currently 7.06% for disclosure), of each participant’s expected retiree health benefit at retirement or death based on his age and service. The calculations take into account the probability of a participant’s death or termination of employment prior to becoming eligible for a benefit, as well as the probability of his terminating with a service, disability or survivor’s benefit. The present value of the expected benefits payable on account of the active participants is added to the present value of the expected future payments to retired participants and beneficiaries to obtain the present value of all expected benefits payable from the Plan on account of the present group of participants and beneficiaries.
2. The service cost is determined using the “entry age normal” method. Using this method, a calculation is made to determine the uniform and constant percentage rate of employer contribution which, if applied to the compensation of each participant during the entire period of his anticipated covered service, would be required in addition to the contributions of the participant to meet the cost of all benefits payable on his behalf.
3. The present value of future unfunded accrued liability contributions is determined by subtracting the present value of prospective normal contributions together with the current assets held, from the present value of expected benefits to be paid from the Plan.