



# 2022 Schedules of Employer Allocations and Collective OPEB Amounts

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Employees Retirement System of Texas | A Component Unit of the State of Texas  
Fiscal Year Ended August 31, 2022

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The mission of the Employees Retirement System of Texas supports the state workforce by offering competitive benefits at a reasonable cost.

2022  
Schedules of Employer Allocation and  
Collective OPEB Amounts

Porter Wilson, Executive Director

Prepared by: Finance Division



A Component Unit of the State of Texas  
Fiscal Year Ended August 31, 2022



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## Introduction

The schedules and accompanying information presented in this document are provided to assist employers participating in the State Retiree Health Plan, which is a multi-employer, cost-sharing Other Postemployment Benefits (OPEB) plan. The schedules and information are prepared and presented in compliance with the requirements of the Governmental Accounting Standards Board (GASB). Additional information about the OPEB plan can be found in the System's 2022 Annual Comprehensive Financial Report, which is published on the website at

<https://www.ers.texas.gov/About-ERS/Reports-andStudies>.

The Schedule of Employer Allocations, Schedule of Collective OPEB Amounts, as well as the accompanying notes have been prepared in conformity with generally accepted accounting principles (GAAP) as established by the GASB and audited by CliftonLarsonAllen, LLP in conformance with generally accepted auditing standards and the standards applicable to financial audits contained in Government Auditing Standards, issued by the Comptroller of the United States.

# INDEPENDENT AUDITORS' REPORT



CliftonLarsonAllen LLP  
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Board of Trustees  
Employees Retirement System of Texas  
Austin, Texas

## Report on the Audit of the Schedules

### **Opinions**

We have audited the following of the State Retiree Health Plan (Plan) of the Employees Retirement System of Texas (System), a component unit of the State of Texas, as of and for the year ended August 31, 2022:

- a. the accompanying schedule of employer allocation,
- b. the rows titled net other post-employment benefit (OPEB) liability, total deferred outflows of resources excluding employer specific amounts, total deferred inflows of resources excluding employer specific amounts, and OPEB expense (specified row amounts) included in the accompanying schedule of collective OPEB amounts,
- c. and the respective related notes

(Collectively referred to herein as the "GASB 75 Schedules").

In our opinion, the GASB 75 Schedules referred to above present fairly, in all material respects, the employer allocation, net OPEB liability, total deferred outflows of resources excluding employer specific amounts, total deferred inflows of resources excluding employer specific amounts, and OPEB expense for the Plan as of and for the year ended August 31, 2022, in accordance with accounting principles generally accepted in the United States of America.

### **Basis for Opinions**

We conducted our audit in accordance with auditing standards generally accepted in the United States of America (GAAS) and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Schedules section of our report. We are required to be independent of the System and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

### **Responsibilities of Management for the Schedules**

Management is responsible for the preparation and fair presentation of the GASB 75 Schedules in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of the GASB 75 Schedules that are free from material misstatement, whether due to fraud or error.

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## ***Auditor's Responsibilities for the Audit of the Schedules***

Our objectives are to obtain reasonable assurance about whether the GASB 75 Schedules are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinions. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS and *Government Auditing Standards* will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the GASB 75 Schedules.

In performing an audit in accordance with GAAS and *Government Auditing Standards*, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the GASB 75 Schedules, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the GASB 75 Schedules.
- Obtain an understanding of internal control relevant to the audit 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 System's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the GASB 75 Schedules.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control related matters that we identified during the audit.

## ***Other Information***

Management is responsible for the other information included in the GASB 75 Schedules. The other information comprises the GASB Reporting and Disclosure Information from Actuary, as listed in the table of contents, is presented for purposes of additional analysis and is not a required part of the GASB 75 Schedules. Our opinion on the GASB 75 Schedules do not cover the other information, and we do not express an opinion or any form of assurance thereon.

In connection with our audit of the GASB 75 Schedules, our responsibility is to read the other information and consider whether a material inconsistency exists between the other information and the GASB 75 Schedules, or the other information appears to be materially misstated. If, based on the work performed, we conclude that an uncorrected material misstatement of the other information exists, we are required to describe it in our report.

**Other Matter**

We have audited, in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States, the financial statements of the System as of and for the year ended August 31, 2022, and our report thereon, dated December 15, 2022, expressed an unmodified opinion on those financial statements. The System is reported as a blended component unit of the State of Texas.

**Other Reporting Required by *Government Auditing Standards***

In accordance with *Government Auditing Standards*, we have also issued our report dated September 21, 2023, on our consideration of the System’s internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the System’s internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the System’s internal control over financial reporting and compliance.

**Restriction on Use**

Our report is intended solely for the information and use of System, the Board of Trustees, the participating employer and their auditor and is not intended to be, and should not be, used by anyone other than these specified parties.



**CliftonLarsonAllen LLP**

Boston, Massachusetts  
September 21, 2023

**Schedule of Employer Allocations**  
**As of and for the Year Ended August 31, 2022**

**STATE OF TEXAS**

State Matching funds:

<sup>1</sup> Non-Employer Contributing Entity (NECE)	\$189,474,831	6.42597568 %
Employer Contributions - State Universities	179,637,432	6.09234358 %
<sup>2</sup> Other Entities - State	74,203,062	2.51657209 %
Employer Contributions - State Agencies	1,971,451,025	66.86110378 %
Employees Retirement System of Texas - Plan Administrator	5,189,967	0.17601601 %
<b>Total - STATE OF TEXAS</b>	<b>\$2,419,956,317</b>	<b>82.07201113 %</b>

**ALL OTHER EMPLOYERS**

Other Entities - Universities	\$281,298,503	9.54014489 %
Other Entities - Junior and Community Colleges	235,869,447	7.99943360 %
Other Entities	11,452,579	0.38841038 %
<b>Total - ALL OTHER EMPLOYERS</b>	<b>\$528,620,529</b>	<b>17.92798887 %</b>

**GRAND TOTAL** **\$2,948,576,846** **100.00000000 %**

**Collective Net OPEB Liability** **\$28,486,965,705**

Agency No.	Agency Name	For the Measurement Year Ended August 31, 2022 - Actual Employer Contributions	Employer Allocation Percentage
0902	1 State of Texas Non-Employer Contributing Entity (NECE)	\$189,474,831.00	6.42597568 %
0902	State of Texas Employer for Universities	\$179,637,432.00	6.09234358 %
0902	2 Other Entities - State	\$74,203,061.82	2.51657209 %
<b>Employer Contributions - State Agencies</b>			
0101	Senate	\$6,581,674.23	0.22321529 %
0102	House of Representatives	9,748,818.98	0.33062794 %
0103	Texas Legislative Council	5,123,331.25	0.17375607 %
0104	Legislative Budget Board	1,748,205.92	0.05928982 %
0105	Legislative Reference Library	299,572.16	0.01015989 %
0116	Sunset Advisory Commission	326,835.00	0.01108450 %
0201	Supreme Court	1,007,287.32	0.03416181 %
0202	State Bar of Texas	3,748,600.32	0.12713253 %
0203	Board of Law Examiners	330,421.68	0.01120614 %
0211	Court of Criminal Appeals	877,982.84	0.02977650 %
0212	Office of Court Administration	3,379,114.08	0.11460153 %
0213	State Prosecuting Attorney	87,527.28	0.00296846 %
0215	Office of Capital and Forensic Writs	183,460.58	0.00622200 %
0221	Court of Appeals - First Court of Appeals District	566,021.86	0.01919644 %
0222	Court of Appeals - Second Court of Appeals District	484,067.51	0.01641699 %
0223	Court of Appeals - Third Court of Appeals District	496,607.18	0.01684227 %
0224	Court of Appeals - Fourth Court of Appeals District	443,966.54	0.01505698 %

## Schedule of Employer Allocations (Continued)

As of and for the Year Ended August 31, 2022

Agency No.	Agency Name	For the Measurement Year Ended August 31, 2022 - Actual Employer Contributions	Employer Allocation Percentage
0225	Court of Appeals - Fifth Court of Appeals District	\$839,740.70	0.02847953 %
0226	Court of Appeals - Sixth Court of Appeals District	221,279.00	0.00750460 %
0227	Court of Appeals - Seventh Court of Appeals District	284,264.98	0.00964075 %
0228	Court of Appeals - Eighth Court of Appeals District	279,085.26	0.00946508 %
0229	Court of Appeals - Ninth Court of Appeals District	264,771.86	0.00897965 %
0230	Court of Appeals - Tenth Court of Appeals District	223,972.80	0.00759596 %
0231	Court of Appeals - Eleventh Court of Appeals District	273,578.00	0.00927831 %
0232	Court of Appeals - Twelfth Court of Appeals District	235,436.80	0.00798476 %
0233	Court of Appeals - Thirteenth Court of Appeals District	426,459.86	0.01446324 %
0234	Court of Appeals - Fourteenth Court of Appeals District	573,091.22	0.01943620 %
0241	Comptroller - Judiciary Section	12,168,961.24	0.41270626 %
0242	State Commission on Judicial Conduct	195,823.28	0.00664128 %
0243	State Law Library	119,672.98	0.00405867 %
0300	Governor - Fiscal	1,470,946.60	0.04988666 %
0301	Governor - Executive	2,068,379.32	0.07014840 %
0302	Attorney General	51,077,140.72	1.73226419 %
0303	Texas Facilities Commission	5,776,894.05	0.19592143 %
0304	Comptroller of Public Accounts	41,592,995.91	1.41061258 %
0305	General Land Office	10,027,946.12	0.34009445 %
0306	Texas State Library and Archives Commission	2,154,895.62	0.07308257 %
0307	Secretary of State	2,700,948.04	0.09160175 %
0308	State Auditor	2,537,844.50	0.08607015 %
0312	State Securities Board	1,099,841.80	0.03730077 %
0313	Department of Information Resources	3,308,665.72	0.11221229 %
0320	Texas Workforce Commission	67,001,261.23	2.27232542 %
0323	Teacher Retirement System of Texas	10,786,027.36	0.36580452 %
0326	Texas Emergency Services Retirement System	79,166.98	0.00268492 %
0329	Texas Real Estate Commission – Semi-Independent	1,805,054.90	0.06121784 %
0332	Texas Department of Housing and Community Affairs	4,499,335.48	0.15259346 %
0338	State Pension Review Board	169,876.26	0.00576130 %
0347	Texas Public Finance Authority	152,601.96	0.00517545 %
0352	Bond Review Board	156,296.22	0.00530073 %
0356	Texas Ethics Commission	377,795.54	0.01281281 %
0359	Office of Public Insurance Counsel	135,638.42	0.00460013 %
0360	State Office of Administrative Hearings	1,741,615.56	0.05906631 %
0362	Texas Lottery Commission	4,214,497.10	0.14293326 %
0364	Health Professions Council	78,966.52	0.00267812 %
0401	Texas Military Department	7,696,068.68	0.26100960 %
0403	Texas Veterans Commission	3,831,291.35	0.12993697 %
0405	Department of Public Safety	145,523,323.94	4.93537498 %
0407	Texas Commission on Law Enforcement	764,927.34	0.02594226 %

## Schedule of Employer Allocations (Continued)

As of and for the Year Ended August 31, 2022

Agency No.	Agency Name	For the Measurement Year Ended August 31, 2022 - Actual Employer Contributions	Employer Allocation Percentage
0409	Commission on Jail Standards	\$245,333.08	0.00832039 %
0411	Texas Commission on Fire Protection	546,086.50	0.01852034 %
0448	Office of Injured Employee Counsel – Administered by 454	1,788,475.26	0.06065554 %
0450	Department of Savings and Mortgage Lending – Semi-Independent	738,699.82	0.02505276 %
0451	Texas Department of Banking – Semi-Independent	2,360,353.50	0.08005060 %
0452	Texas Department of Licensing and Regulation	5,815,209.61	0.19722089 %
0454	Texas Department of Insurance	21,877,004.71	0.74195132 %
0455	Railroad Commission of Texas	13,062,700.73	0.44301714 %
0456	Texas State Board of Plumbing Examiners	482,292.11	0.01635678 %
0457	Texas State Board of Public Accountancy – Semi-Independent	506,978.20	0.01719400 %
0458	Texas Alcoholic Beverage Commission	9,123,660.78	0.30942591 %
0459	Texas Board of Architectural Examiners – Semi-Independent	299,541.76	0.01015886 %
0460	Texas Board of Professional Engineers and Land Surveyors – Semi-	571,125.12	0.01936952 %
0466	Office of Consumer Credit Commissioner – Semi-Independent	805,823.64	0.02732924 %
0469	Credit Union Department – Semi-Independent	384,147.46	0.01302823 %
0473	Public Utility Commission of Texas	2,701,573.64	0.09162297 %
0475	Office of Public Utility Counsel	194,624.48	0.00660062 %
0476	Texas Racing Commission	672,716.90	0.02281497 %
0477	Commission on State Emergency Communications	308,297.42	0.01045580 %
0479	State Office of Risk Management	1,237,454.86	0.04196787 %
0481	Texas Board of Professional Geoscientists	26,867.26	0.00091119 %
0503	Texas Medical Board	2,280,784.06	0.07735203 %
0504	State Board of Dental Examiners	552,207.08	0.01872792 %
0507	Texas Board of Nursing	1,234,884.78	0.04188071 %
0508	Texas Board of Chiropractic Examiners	110,911.36	0.00376152 %
0510	Texas Behavioral Health Executive Council	515,354.50	0.01747808 %
0513	Texas Funeral Service Commission	135,636.78	0.00460008 %
0514	Texas Optometry Board	78,944.16	0.00267737 %
0515	Texas State Board of Pharmacy	1,190,581.38	0.04037817 %
0520	Texas State Board of Examiners of Psychologists – Sunset	7,497.84	0.00025429 %
0475	Office of Public Utility Counsel	170,541.80	0.00567306 %
0476	Texas Racing Commission	673,413.10	0.02240105 %
0477	Commission on State Emergency Communications	273,139.18	0.00908596 %
0479	State Office of Risk Management	1,311,519.42	0.04362763 %
0481	Texas Board of Professional Geoscientists	34,371.82	0.00114338 %
0503	Texas Medical Board	2,287,318.52	0.07608754 %
0504	State Board of Dental Examiners	597,725.16	0.01988330 %
0507	Texas Board of Nursing	1,176,854.64	0.03914801 %
0508	Texas Board of Chiropractic Examiners	112,288.96	0.00373529 %
0510	Behavioral Health Executive Co	7,335.12	0.00024400 %
0513	Texas Funeral Service Commission	127,640.88	0.00424597 %
0514	Texas Optometry Board	80,379.12	0.00267381 %
0515	Texas State Board of Pharmacy	1,196,460.40	0.03980020 %

## Schedule of Employer Allocations (Continued)

As of and for the Year Ended August 31, 2022

Agency No.	Agency Name	For the Measurement Year Ended August 31, 2022 - Actual Employer Contributions	Employer Allocation Percentage
0520	Texas State Board of Examiners of Psychologists – Sunset	\$7,497.84	0.00025429 %
0529	Health and Human Services Commission	455,661,638.68	15.45361246 %
0530	Department of Family and Protective Services	134,160,127.42	4.54999596 %
0533	Executive Council of Physical and Occupational Therapy Examiners	252,808.26	0.00857391 %
0537	Department of State Health Services	64,538,414.36	2.18879879 %
0542	Cancer Prevention and Research Institute of Texas	290,519.96	0.00985289 %
0551	Department of Agriculture	9,626,766.48	0.32648857 %
0554	Texas Animal Health Commission	3,082,439.72	0.10453992 %
0578	State Board of Veterinary Medical Examiners	190,957.56	0.00647626 %
0580	Texas Water Development Board	5,407,157.99	0.18338196 %
0582	Texas Commission on Environmental Quality	37,841,857.08	1.28339396 %
0592	Soil and Water Conservation Board	852,136.62	0.02889993 %
0601	Texas Department of Transportation	219,021,925.52	7.42805553 %
0608	Texas Department of Motor Vehicles	8,388,799.14	0.28450332 %
0644	Texas Juvenile Justice Department	28,257,244.77	0.95833503 %
0696	Texas Department of Criminal Justice	425,101,883.77	14.41718856 %
0701	Texas Education Agency	16,946,408.30	0.57473178 %
0771	Texas School for the Blind and Visually Impaired	4,757,956.54	0.16136451 %
0772	Texas School for the Deaf	6,004,293.49	0.20363361 %
0781	Texas Higher Education Coordinating Board	4,124,418.25	0.13987827 %
0802	Parks and Wildlife Department	46,284,481.87	1.56972276 %
0808	Texas Historical Commission	3,283,361.49	0.11135411 %
0809	State Preservation Board	1,842,848.46	0.06249959 %
0813	Texas Commission on the Arts	177,915.58	0.00603395 %
0907	Comptroller - State Energy Conservation Office	170,374.62	0.00577820 %
0909	Comptroller - Texas Broadband Development Office	17,494.96	0.00059334 %
0930	Texas Treasury Safekeeping Trust Company	941,149.20	0.03191876 %
	<b>Total of Employer Contributions - State Agencies</b>	<b>\$1,971,451,025</b>	
	<b>Other Entities - Universities</b>		
0717	Texas Southern University	\$7,269,882.28	0.24655563 %
0719	Texas State Technical College System	5,771,190.22	0.19572799 %
0730	University of Houston	39,960,316.94	1.35524082 %
0731	Texas Woman's University	10,131,674.38	0.34361236 %
0733	Texas Tech University	37,626,726.14	1.27609786 %
0734	Lamar University	8,224,989.54	0.27894778 %
0735	Midwestern State University	4,954,439.23	0.16802815 %
0737	Angelo State University	4,774,672.10	0.16193141 %
0739	Texas Tech University Health Sciences Center	24,056,962.78	0.81588387 %
0752	University of North Texas	32,940,958.20	1.11718161 %
0753	Sam Houston State University	17,848,454.82	0.60532439 %
0754	Texas State University	28,345,502.53	0.96132826 %
0755	Stephen F. Austin State University	13,265,824.95	0.44990603 %
0756	Sul Ross State University	1,966,519.36	0.06669385 %
0758	Texas State University System	309,590.96	0.01049967 %
0759	University of Houston - Clear Lake	6,243,028.01	0.21173021 %

## Schedule of Employer Allocations (Continued)

As of and for the Year Ended August 31, 2022

Agency No.	Agency Name	For the Measurement Year Ended August 31, 2022 - Actual Employer Contributions	Employer Allocation Percentage
0763	University of North Texas Health Science Center at Fort Worth	\$8,050,640.88	0.27303480 %
0765	University of Houston - Victoria	2,779,002.00	0.09424893 %
0768	Texas Tech University System	1,838,879.74	0.06236499 %
0769	University of North Texas System	3,146,180.45	0.10670166 %
0773	University of North Texas at Dallas	1,904,177.96	0.06457956 %
0774	Texas Tech University Health Sciences Center - El Paso	9,520,775.50	0.32289393 %
0783	University of Houston System	414,456.34	0.01405615 %
0784	University of Houston - Downtown	7,649,615.15	0.25943415 %
0787	Lamar State College - Orange	662,509.54	0.02246879 %
0788	Lamar State College - Port Arthur	840,678.08	0.02851132 %
0789	Lamar Institute of Technology	800,855.10	0.02716073 %
	<b>Total of Other Entities - Universities</b>	<b>\$281,298,503.18</b>	
	<b>Other Entities - Junior and Community Colleges</b>		
0948	South Texas Community College	\$8,145,642.74	0.27625676 %
0949	Collin County Community College District	9,899,335.29	0.33573265 %
0951	Alvin Community College	2,344,946.66	0.07952808 %
0952	Amarillo College	5,598,920.52	0.18988552 %
0953	Coastal Bend College	1,673,320.48	0.05675011 %
0954	Blinn College	5,154,702.60	0.17482002 %
0955	Central Texas College	4,451,163.54	0.15095973 %
0956	Cisco Junior College	1,138,431.12	0.03860951 %
0957	Clarendon College	682,901.02	0.02316036 %
0958	Cooke County College	2,359,966.13	0.08003746 %
0959	Dallas County Community College	21,752,460.64	0.73772745 %
0960	Del Mar College	5,579,212.58	0.18921713 %
0961	Frank Phillips College	726,463.00	0.02463775 %
0962	Galveston College	1,122,266.63	0.03806130 %
0963	Grayson County College	2,296,247.60	0.07787647 %
0964	Trinity Valley Community College	2,655,655.20	0.09006566 %
0965	Hill College	1,171,238.82	0.03972217 %
0966	3 Howard College	2,100,297.74	0.07123090 %
0967	Kilgore College	2,407,010.06	0.08163294 %
0968	Laredo Junior College	3,983,025.64	0.13508299 %
0969	Lee College	3,517,279.50	0.11928736 %
0970	McLennan Community College	4,120,247.26	0.13973681 %
0971	College Of The Mainland	2,588,840.70	0.08779967 %
0972	Navarro College	2,525,786.42	0.08566120 %
0973	Odessa College	2,608,385.76	0.08846253 %

## Schedule of Employer Allocations (Continued)

As of and for the Year Ended August 31, 2022

Agency No.	Agency Name	For the Measurement Year Ended August 31, 2022 - Actual Employer Contributions <sup>3</sup>	Employer Allocation Percentage
0974	Panola College	\$1,206,618.22	0.04092205 %
0975	Paris Junior College	1,891,702.80	0.06415647 %
0976	Ranger Junior College	612,679.06	0.02077881 %
0977	Alamo Community College	17,483,635.69	0.59295167 %
0978	San Jacinto College	9,955,720.68	0.33764495 %
0979	South Plains College	5,071,193.64	0.17198784 %
0980	Southwest Texas Counties Junior College	2,332,483.88	0.07910541 %
0981	Tarrant County College District	14,451,817.55	0.49012857 %
0982	Temple College	2,194,518.62	0.07442637 %
0983	Texarkana College	1,796,416.02	0.06092485 %
0984	Texas Southmost College	1,251,741.52	0.04245240 %
0985	Tyler Junior College	4,647,398.62	0.15761497 %
0986	Victoria College	2,232,206.22	0.07570453 %
0987	Weatherford College	1,897,856.70	0.06436518 %
0988	Wharton County Junior College	2,672,101.36	0.09062343 %
0989	Angelina College	1,867,564.90	0.06333784 %
0990	Brazosport College	2,196,150.56	0.07448171 %
0991	Vernon Regional Junior College	1,496,223.90	0.05074393 %
0992	Western Texas College	1,036,375.66	0.03514834 %
0993	El Paso Community College	7,309,202.20	0.24788915 %
0994	Houston Community College	14,796,881.53	0.50183130 %
0995	Midland College	3,077,215.11	0.10436272 %
0996	North Harris County College	17,128,900.69	0.58092095 %
0997	Austin Community College	14,888,826.20	0.50494957 %
0998	Northeast Texas Community College	1,770,267.96	0.06003805 %
	<b>Total of Other Entities - Junior and Community Colleges</b>	<b>\$235,869,446.94</b>	
	<b>Other Entities</b>		
0602	Turnpike Authority	\$301,774.78	0.01023459 %
0851	Texas Cooperative Inspection Program	1,115,246.94	0.03782323 %
0897	Texas County District Retirement System	1,381,503.14	0.04685322 %
0898	Texas Municipal Retirement System	1,178,726.66	0.03997612 %
8696	Windham School District	7,475,326.98	0.25352322 %
	<b>Total of Other Entities</b>	<b>\$11,452,578.50</b>	
0327	Plan Administrator Employees Retirement System of Texas	\$5,189,967.29	0.17601601 %
4	<b>GRAND TOTAL of Schedule of Employer Allocation</b>	<b>\$2,948,576,845.55</b>	<b>100.00000000 %</b>

# Schedule of Employer Allocations (Concluded)

As of and for the Year Ended August 31, 2022

- 1 State of Texas Non Employer Contributing Entity (NECE) represents the Fund 0001 portion for Junior Colleges.
- 2 Other Entities - State
  - University of Texas Medical Branch at Galveston
  - Community Supervision & Corrections Departments (CSCD) - Department of Criminal Justice
  - UT Mental Sciences Institute
- 3 Howard College and Southwest Collegiate Institute for the Deaf are a part of the Howard County Junior College District
- 4 All contributions by employers and NECE to the Group Employees Life, Accident and Health Insurance and Benefits Fund Program (GBP) are available to pay claims of active and retired members. Employer and NECE contributions are based on a blended rate. Allocation of the OPEB liability and related accounts are based on the total contributions that are available to pay current and future claims of the OPEB plan, as this best reflects the relationship between the contributions and the collective net OPEB liability. The above schedule for Fiscal Year 2022 are based on both active and retiree contributions.

Reconciliation of Employer Contributions Reported in the Schedule (See Note C in the Notes to the Schedules of Employer Allocations and Collective OPEB Amounts for the explanation of allocation method):

Employer Contributions to the Group Employees Life, Accident and Health Insurance and Benefits Fund reported in Exhibit VI of Annual Comprehensive Financial Report	2,211,812,446
Employer Contributions to the State Retirees Health Plan reported in Exhibit IX of Annual Comprehensive Financial Report	699,999,453
Non-employer Contributing Entity Contributions to the State Retirees Health Plan reported in Exhibit IX of Annual Comprehensive Financial Report	36,750,724
<b>Total</b>	<b><u><u>2,948,562,623</u></u></b>

To the best of our knowledge, the information contained within this schedule is accurate and fairly presented in conformity with GASB 74 and 75.

Additional related documents available on the ERS website include:

ERS Annual Comprehensive Financial Report (ACFR) for FY 2022

Governmental Accounting Standards Board (GASB) No. 74 Actuarial Valuation of the OPEB provided under the Texas Group Benefits Program (Texas GBP) for fiscal year 2022

GASB No. 75 Actuarial Valuation of the OPEB provided under the Texas GBP for fiscal year ending 2022

**Schedule of Collective OPEB Amounts**  
**As of and for the Year Ended August 31, 2022**

Net OPEB Liability	\$28,486,965,705
<u>Deferred Outflows of Resources</u>	
Net Difference Between Projected and Actual Investment Earnings on OPEB Plan Investments	4,913,512
Changes of Assumptions	<u>1,673,722,807</u>
Total Deferred Outflows of Resources Excluding Employer Specific Amounts	<u><u>\$1,678,636,319</u></u>
<u>Deferred Inflows of Resources</u>	
Differences Between Expected and Actual Experience	898,798,041
Changes of Assumptions	<u>8,805,590,690</u>
Total Deferred Inflows of Resources Excluding Employer Specific Amounts	<u><u>\$9,704,388,731</u></u>
OPEB Expense	(\$1,037,634,186)
Amortization Period for Recognition of Deferred Outflow and Deferred Inflow of Resources:	
Differences Between Expected and Actual Experience*	5.53 years
Changes of Assumptions*	5.53 years
Net Difference Between Projected and Actual Investment Earnings on OPEB Plan Investments**	5.00 years

\* Per Paragraph No. 86.a. of GASB No. 75, amortized over a straight-line closed period equal to the average remaining service period for all employees (active and inactive) who are provided with benefits through the OPEB plan.

\*\* Per Paragraph No. 86.b. of GASB No. 75, amortized over a straight-line closed 5-year period.

# Notes to the Schedules of Employer Allocation and Collective OPEB Amounts

For Fiscal Year Ended August 31, 2022

## Note A — General Plan Descriptions

The Employees Retirement System of Texas was created by the Texas Legislature in 1947 and is administered in accordance with the Texas Constitution. The System provides postemployment health care, life and dental insurance benefits through the Group Benefits Program in accordance with Chapter 1551, Texas Insurance Code.

The State Retiree Health Plan (SRHP) is a cost-sharing multiple-employer postemployment health care plan with a special funding situation. SRHP covers retired employees of the State, and other entities as specified by the State legislature. Participating Reporting Entities for the State Retiree Health Plan are State Agencies, Universities, Junior and Community Colleges and Other Entities. SRHP is a pay-as-you-go plan and has no reserves.

## Note B — Employer Contributions

Employer Contributions reported in the Schedule of Employer Allocations were taken from the ERS PeopleSoft Financials (Financials) system using the OPEB Employer Contribution Premium due versus billed amounts related to active and retirees.

## Note C — Other information

### Basis of Accounting

The underlying financial information used to prepare the OPEB allocation schedules is based on the ERS financial statements. The ERS financial statements are prepared using the accrual basis of accounting and are prepared in accordance with accounting principles generally accepted (GAAP) in the United States of America that apply to governmental accounting for fiduciary funds.

### Method of Allocation

Contributions from employers and non-employer contributing entities (NECE) to the Group Benefits Program are available to pay claims for both active and retired members. In addition, employer and NECE contributions are based on a blended rate. The allocation of the OPEB liability and related accounts are based on the total of employers and NECE contributions for both active and retired members because this allocation method best reflects the relationship between the contributions and the collective net OPEB liability. Therefore, the employers and NECE contributions reported in the Schedule of Employer Allocations include the contributions from the Employees Life, Accident and

Health Insurance and Benefits Fund (for active members) and those from the State Retiree Health Plan (for retired members).

### Annual Comprehensive Financial Report 2022

ERS issues an Annual Comprehensive Financial Report that includes financial statements, notes and required supplementary information for the OPEB plan. This report is also audited by CliftonLarsonAllen, LLP and available online at <https://www.ers.texas.gov/About-ERS/Reports-and-Studies>. This report may also be obtained by writing to ERS at:

Employees Retirement System of Texas  
200 East 18th Street, Austin, Texas 78701

### GASB Reporting and Disclosure Information

Rudd and Wisdom, Inc. has provided information required by the governmental employers participating in ERS in connection with GASB Statement 75 "Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions." The information needed by employers to implement GASB 75 from this report is presented immediately after these notes.

Please refer to the *Required Supplementary Information* section in the ERS Annual Comprehensive Financial Report referenced above for the Schedule of Contributions from Employers and Non-employer Contributing Entities.

The Schedule of Collective OPEB Amounts complements the actuarial valuation report as of August 31, 2022 and the GASB Reporting and Disclosure Information for the Fiscal year Ended August 31, 2022, which should be considered together as a complete report for the plan year ended August 31, 2022.

The Schedules of Employer Allocations and Collective OPEB Amounts are to be used for governmental employer reporting for Fiscal Years ending on or before August 31, 2023.

Please see the actuarial valuation report as of August 31, 2022 for additional discussion of the nature of calculations and more information related to participant data, economic and demographic assumptions and benefit provisions. Actuarial valuation reports for the OPEB plan are available online at <https://ers.texas.gov/about-ers/reports-and-studies/ers-actuarial-valuation-reports>.



**EMPLOYEES RETIREMENT SYSTEM OF TEXAS**

**ACTUARIAL VALUATION OF OTHER POST-EMPLOYMENT  
BENEFITS PROVIDED UNDER THE TEXAS EMPLOYEES  
GROUP BENEFITS PROGRAM  
GOVERNMENTAL ACCOUNTING STANDARDS BOARD  
STATEMENT NO. 75  
FOR THE MEASUREMENT YEAR ENDED AUGUST 31, 2022 AND  
EMPLOYER REPORTING FOR FISCAL YEARS ENDING  
ON OR BEFORE AUGUST 31, 2023**



Rudd and Wisdom, Inc.

# Rudd and Wisdom, Inc.

## CONSULTING ACTUARIES

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March 27, 2023

Board of Trustees  
Employees Retirement System of Texas  
1801 Brazos  
Austin, Texas 78701

Attached is our Actuarial Valuation of the Other Post-Employment Benefits (OPEB) provided under the Texas Employees Group Benefits Program (GBP) administered by the Employees Retirement System of Texas (ERS) for the Measurement Year Ended August 31, 2022 and Employer Reporting for Fiscal Years Ending on or before August 31, 2023 (GBP OPEB). The purpose of this valuation is to provide accounting information that is required by the Governmental Accounting Standards Board Statement No. 75 (GASB No. 75) which sets forth the financial reporting standards for state and local government employers that provide post-employment benefits other than pension benefits. Such benefits are referred to collectively as OPEB. The results of this valuation are appropriate only for purposes of GASB No. 75.

Please refer to the glossary in Section IX of this report for the definitions of certain GASB No. 75 terms which are indicated below in boldface type the first time they appear.

The GBP provides OPEB for retired employees of the State of Texas and certain institutions of higher education and other agencies as specified in Chapter 1551 of the Texas Insurance Code. For purposes of this report, the term employer is used when referring to the cost-sharing employers collectively.

GASB No. 74 and GASB No. 75 operate together to form the basis of financial reporting for OPEB by the plan (GASB No. 74) and by the employer/plan sponsor (GASB No. 75). Depending upon plan structure, GASB presents several alternatives for coordinated plan and employer/sponsor reporting.

ERS has determined that the GBP is a cost-sharing multiple employer plan with a special funding situation that is administered in accordance with paragraph 4 of GASB No. 75 which applies to trusts, or equivalent arrangements, that meet the following criteria:

- a) Contributions from employers and **Non-Employer Contributing Entities** to the OPEB plan and earnings on those contributions are irrevocable,
- b) OPEB plan assets are dedicated to providing OPEB benefits to plan members in accordance with the benefit terms, and

- c) OPEB plan assets are legally protected from creditors of employers, Non-Employer Contributing Entities, and the OPEB plan administrator. If the plan is a defined benefit OPEB plan, plan assets are also legally protected from creditors of the plan members.

Therefore, the employers report under paragraphs 21-26, 59-98, 109-115, 138 and 140-142 of GASB No. 75 and references to GASB No. 75 should be interpreted accordingly.

### *Measurement Date*

Paragraph No. 59 of GASB No. 75 permits a measurement date that is no earlier than the end of the employer's prior fiscal year and no later than the end of the employer's current fiscal year. Thus, for purposes of GASB No. 75 reporting for fiscal years ending on or before August 31, 2023, the measurement date is August 31, 2022, and the August 31, 2022 liability shown in the GBP OPEB GASB No. 74 actuarial valuation report will be used for such reporting.

### *Consistency with Assumptions Used for Retirement Plan Valuations*

Most of the employees and retirees covered by the GBP are also covered by either the ERS or Teacher Retirement System (TRS) retirement plans that are subject to periodic actuarial valuations. Where appropriate, for purposes of this report, we have utilized assumptions previously adopted by the ERS and TRS Boards for use in performing the retirement plan valuations. However, certain aspects of the OPEB valuation process require the use of assumptions that are unique to OPEB; for example, the **discount rate** assumption and the **health benefit cost trend** assumption as discussed below.

### *Changes in Actuarial Assumptions*

Since the last valuation was prepared for this plan, demographic assumptions (including rates of retirement, disability, termination, and mortality, and assumed salary increases) for Higher Education members have been updated to reflect assumptions recently adopted by the TRS Trustees. These new assumptions were adopted to reflect an experience study on the TRS retirement plan performed by the TRS retirement plan actuary.

In addition, assumed Per Capita Health Benefit Costs and assumed Health Benefit Cost and Retiree Contribution trends have been updated to reflect recent experience and its effects on our short-term expectations. Furthermore, (a) the percentage of current retirees and their spouses not yet eligible to participate in the HealthSelect Medicare Advantage Plan and future retirees and their spouses who will elect to participate in the plan at the earliest date at which coverage can commence, (b) the percentage of future retirees assumed to cover dependent children, (c) the proportion of future retirees assumed to elect health coverage at retirement and the proportion of future retirees expected to receive the Opt-Out Credit at retirement, and (d) the Patient-Centered Outcomes Research Institute fee payable under the Affordable Care Act have been updated to reflect recent plan experience and expected trends.

Lastly, the discount rate was changed from 2.14% as of August 31, 2021 to 3.59% as of August 31, 2022 as a result of requirements by GASB No. 75 to utilize the yield or index rate for 20-year, tax-exempt general obligation municipal bonds rated AA/Aa (or equivalent) or higher in effect on the measurement date. (See below for additional details.)

For a complete list of assumptions and other inputs, see Section VI of this report.

### ***Discount Rate***

In accordance with Paragraph No. 79 of GASB No. 75, the discount rate should be the single rate that reflects the following:

- (a) the long-term expected rate of return on OPEB plan investments that are expected to be used to finance the payment of benefits, to the extent that (i) the OPEB plan's **Fiduciary Net Position** (i.e., plan assets) is projected to be sufficient to make projected benefit payments and (ii) OPEB plan assets are expected to be invested using a strategy to achieve that return, and
- (b) the **Municipal Bond Rate** which is the yield or index rate for 20-year, tax-exempt general obligation municipal bonds with an average rating of AA/Aa or higher (or equivalent quality on another rating scale), to the extent that the conditions in (a) are not met.

For each future period, if the amount of the OPEB plan's fiduciary net position is projected to be greater than or equal to the benefit payments that are projected to be made in that period and OPEB plan assets up to that point are expected to be invested using a strategy to achieve the **Long-Term Expected Rate of Return**, the actuarial present value of benefit payments projected to be made in the period should be determined using the long-term expected rate of return on those investments. Per Paragraph No. 83 of GASB No. 75, the long-term expected rate of return should be based on the nature and mix of current and expected OPEB plan investments over a period representative of the expected length of time between (1) the point at which a plan member begins to provide service to the employer and (2) the point at which all benefits to the plan member have been paid. For this purpose, the long-term expected rate of return should be determined net of OPEB plan investment expense but without reduction for OPEB plan administrative expense. The municipal bond rate discussed in (b) above should be used to calculate the actuarial present value of all other benefit payments. The discount rate is the single rate of return that, when applied to all projected benefit payments, results in an actuarial present value of projected benefit payments equal to the total of the actuarial present values determined using the long-term rate of return and the municipal bond rate applied to the appropriate periods as described above.

For this plan, the amount that the participating employers contribute to the OPEB plan each year is limited to the anticipated cost of providing benefits incurred during that year. As a result, the GBP is not expected to accumulate funds. (Although there are some accumulated funds as of August 31, 2022, such funds provide less than a full year's benefit payments and are expected to be depleted shortly.) Since no plan assets are expected to accumulate, the discount rate must be based solely on the municipal bond rate discussed in (b) above. The discount rate for the measurement year ending August 31, 2022 is 3.59% based upon the Bond Buyer Index of general obligation bonds with 20 years to maturity with an average credit quality that is roughly equivalent to Moody's Investors Service's Aa2 rating and Standard & Poor's Corp.'s AA rating.

### ***Health Benefit Cost Trend***

For purposes of this valuation, the health benefit cost trend represents the expected annual rate of increase in health benefit costs, excluding the effects of changes in demographics and changes in plan provisions.

The health benefit cost trend has exceeded the rate of price increases in the general economy, as measured by changes in the Consumer Price Index (CPI), for many decades. Although this pattern is expected to continue for the foreseeable future, many economists anticipate that the degree to which the health benefit cost trend exceeds general inflation will eventually abate. These economists believe that the health benefit cost trend will reach an ultimate level that still exceeds general inflation, but not by as wide a margin as in past decades.

The health benefit cost trend assumption used in this report begins with our short term expectations of expected health benefit cost increases in the next year and gradually declines to a rate that exceeds the assumed rate of general price inflation by 2.0%.

### ***Changes in Plan Provisions***

Under Q/A #4.107 of GASB's Implementation Guide No. 2017-2, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans, any plan changes that have been adopted and communicated to plan members by the time the valuation is prepared must be included in the valuation. Accordingly, this valuation reflects the minor benefit changes that became effective September 1, 2022, since these changes were communicated to plan members in advance of the preparation of the valuation used for this report. These changes, which are not expected to have a significant impact on plan costs for FY2023, are provided for in the FY2023 Assumed Per Capita Health Benefit Costs. For a complete description of the benefit provisions, see Section VII of this report.

### ***Medicare Part D***

The Medicare Prescription Drug Improvement and Modernization Act of 2003 introduced a prescription drug benefit under Medicare (Medicare Part D) as well as a federal subsidy, the Retiree Drug Subsidy (RDS), to sponsors of retiree healthcare benefit plans that provide a prescription drug benefit that is at least actuarially equivalent to the basic coverage provided under Medicare Part D.

For purposes of GASB No. 75, the valuation of future OPEB may not reflect the anticipated receipt of future RDS payments as required under GASB Technical Bulletin No. 2006-1. The Bulletin requires that the RDS payments to an employer be reported by the employer as revenue, rather than being netted against the employer's OPEB cost for prescription drug coverage.

ERS implemented an Employer Group Waiver Plan plus Commercial Wrap (EGWP plus Wrap) on January 1, 2013 in order to provide the plan with the benefit of increased subsidies and discounts available under such an arrangement. ERS is no longer eligible for the RDS for retirees enrolled in the EGWP plus Wrap. As a result, the RDS has been significantly reduced.

The projected cost of the EGWP plus Wrap reflects the subsidies expected to be provided by the Federal government under Medicare Part D and the discounts expected to be provided by drug manufacturers as required under the ACA.

### *Proportionate Share*

Per Paragraph No. 59 of GASB No. 75, a liability for an employer's proportionate share of the collective **Net OPEB Liability** as of the measurement date shall be recognized at the end of the employer's fiscal year. ERS has determined each employer's proportionate share as the ratio of the employer's contributions to the GBP for active and retired members to the total contributions made by all employers to the GBP for all active and retired members. These proportions are determined as of the measurement date based on contributions made during the year ending on the measurement date.

For each employer, this same proportionate share is used to allocate the OPEB Expense and Deferred Outflows/Inflows of Resources in accordance with Paragraph No. 63 of GASB No. 75.

In addition, pursuant to paragraph 64 of GASB No. 75, if there is a change in the employer's proportion of the collective net OPEB liability since the prior measurement date, the net effect of that change on the employer's proportionate shares of the collective net OPEB liability and collective deferred outflows of resources and deferred inflows of resources related to OPEB, determined as of the beginning of the measurement period, should be recognized in the employer's OPEB expense, beginning in the current reporting period, using a systematic and rational method over a closed period. For this purpose, the length of the expense recognition period should be equal to the average of the expected remaining service lives of all employees that are provided with OPEB through the OPEB plan (active members and inactive members) determined as of the beginning of the measurement period. The amount not recognized in the employer's OPEB expense should be reported as a deferred outflow of resources or deferred inflow of resources related to OPEB. [See Q/A #4.193 and Illustration B4-3 of GASB's Implementation Guide No. 2017-3, Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions (and Certain Issues Related to OPEB Plan Reporting).]

See Section V for a list of the employers' proportionate shares.

### *Variability in Future Actuarial Measurement*

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following:

- Plan experience differing from that anticipated by the economic or demographic assumptions;
- Changes in economic or demographic assumptions;
- Increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period); and
- Changes in plan provisions, applicable law or applicable accounting standards.

Retiree group benefits models necessarily rely on the use of approximations and estimates and are sensitive to changes in these approximations and estimates. Small variations in these approximations and estimates may lead to significant changes in actuarial measurements.

Aside from the required sensitivities of the Net OPEB Liability to changes in the discount rate and healthcare cost trend rates presented on pages II-5 and II-6, we have not been asked to perform and have not performed any stochastic or deterministic sensitivity analyses of the potential ranges of such future measurements. If you have an interest in the results of any such analysis, please let us know.

Please let us know if you have any questions or need additional information concerning this report.

Respectfully submitted,



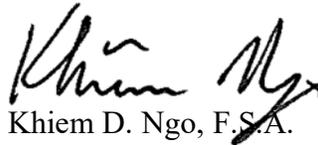
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MLB/CSJ/PSD/KDN:nm

Enclosures

GASB75-Final\_ERS\_RMDB\_2022\_ACCTVAL.docx

**GASB STATEMENT NO. 75  
ACTUARIAL VALUATION**

**AS OF AUGUST 31, 2022 FOR THE  
MEASUREMENT YEAR ENDED AUGUST 31, 2022 AND  
EMPLOYER REPORTING FOR FISCAL YEARS ENDING  
ON OR BEFORE AUGUST 31, 2023**

**FOR THE  
OTHER POST-EMPLOYMENT BENEFITS UNDER THE  
TEXAS EMPLOYEES  
GROUP BENEFITS PROGRAM**



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## ***Section I - Certification of GASB No. 75 Actuarial Valuation***

At the request of the Employees Retirement System of Texas (ERS), we have performed an actuarial valuation of the Other Post-Employment Benefits (OPEB) provided under the Texas Employees Group Benefits Program (GBP) for purposes of employer reporting requirements for fiscal years ending on or before August 31, 2023. The purpose of this report is to present the results of our valuation and provide the information necessary to determine financial statement entries consistent with the Governmental Accounting Standards Board Statement No. 75 Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions (GASB No. 75).

Actuarial computations under GASB No. 75 are for purposes of fulfilling governmental employer financial accounting requirements. The calculations reported herein have been made on a basis consistent with our understanding of GASB No. 75 and the GBP. The information presented in this report is solely for purposes of compliance with GASB No. 75. This report does not provide any advice with respect to the manner in which the benefits are funded (i.e., pay-as-you go funding as opposed to prefunding the benefits). Actuarial valuations of OPEB are performed annually.

Paragraph No. 59 of GASB No. 75 permits a measurement date that is no earlier than the end of the employer's prior fiscal year and no later than the end of the employer's current fiscal year. The measurement date of August 31, 2022 will be used to report information for fiscal years ending on or before August 31, 2023. The valuation date is August 31, 2022.

We have based our valuation on current and former employee data as of August 31, 2022 provided by ERS, former employee data as of August 31, 2022 provided by the Teachers Retirement System (TRS) and plan provisions provided by ERS. We have used the actuarial methods and assumptions described in Section VI of this report. The actuarial valuation has been performed on the basis of the plan benefits described in Section VII.

To the best of our knowledge, all current active and retired employees eligible to participate in the plan as of the valuation date and all other individuals who have a vested benefit under the plan have been included in the valuation. Furthermore, to the best of our knowledge and belief, all plan benefits have been considered in the development of costs.

ERS and TRS remain solely responsible for the accuracy and comprehensiveness of the respective data provided. However, to the best of our knowledge, no material biases exist with respect to any imperfections in the data provided by these sources. To the extent that any imperfections exist in the data records, we have relied on best estimates provided by ERS and TRS. We have not audited the data provided, but have reviewed it for reasonableness and consistency relative to previously provided information. We have utilized ProVal, a software licensed from Winklevoss Technologies, LLC, in the development of the liabilities summarized in the report. We have independently confirmed the model developed by Winklevoss and have sufficiently tested it to ensure the model provides an accurate representation of the plan's liabilities.

To the best of our knowledge, the actuarial information supplied in this report is complete and accurate. In our opinion, each of the assumptions used is reasonably related to the experience of the plan and to reasonable expectations and represents our best estimate of anticipated experience under the plan solely with respect to that individual assumption. All of our work conforms to generally

accepted actuarial principles and practices and to the Actuarial Standards of Practice issued by the Actuarial Standards Board. We are neither aware of any material inconsistencies among the assumptions, nor are we aware of any unreasonable results caused by the aggregation of the assumptions.

Rudd and Wisdom, Inc. prepared and presented in Sections II and III of this report the information that is required to be included in the notes to the Financial Statements and the Required Supplementary Information. ERS prepared the proportionate share allocation percentages shown in Section V of this report.

Rudd and Wisdom, Inc. prepared the following schedules in the Actuarial Section of the ERS ACFR for the State Retiree Health Plan: (a) Active Member Valuation Data, (b) Retirees and Nominees Added and Removed and (c) Schedule of Funding Progress.

The undersigned individuals are members of the American Academy of Actuaries who meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.



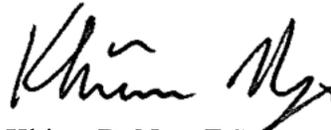
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Member of American Academy of Actuaries

## ***Section II - Notes to the Financial Statements***

*Pursuant to Paragraphs No. 91 through 98 of GASB No. 75, the following information should be included in the Notes to the Financial Statements.*

### **A. OPEB Plan Description**

#### 1. Plan Name

Other Post-Employment Benefits provided under the Texas Employees Group Benefits Program (GBP)

#### 2. Plan Type

The GBP is a cost-sharing multiple-employer defined benefit OPEB plan. Employers participating in the GBP include:

- a. the State of Texas which is the employer for all state agency employees and employees of senior colleges and universities,
- b. 50 Texas junior and community colleges,
- c. the Texas Municipal Retirement System, Texas County and District Retirement System, the North Texas Tollway Authority, the Texas Cooperative Inspection Program, the University of Texas Medical Branch and the Windham School District,
- d. Community Supervision and Corrections Departments.

#### 3. Employees Covered

- a. State agency and higher education employees must meet the following classification requirements in order to be eligible for OPEB provided they also meet certain age and service conditions.

- i. State Agency or Higher Education Employee

An individual must be an elected or appointed officer or employee who performs service (other than an independent contractor) for the State of Texas, including an institution of higher education, other than the University of Texas or Texas A&M University Systems, and who:

- a) receives compensation for the service performed pursuant to a payroll certified by a state agency or by an elected or appointed officer, or

- b) receives compensation for service performed for an institution of higher education pursuant to a payroll certified by an institution of higher education or by an elected or appointed officer of the State.
- ii. Employees of Certain Other Entities
  - a) Officers or employees of Texas Municipal Retirement System or Texas County and District Retirement System
  - b) Certain employees or officers of the North Texas Tollway Authority
  - c) Employees of the Community Supervision and Corrections Departments
- b. Number of Plan Members as of August 31, 2022

Member Category	Count
a. Inactive employees or beneficiaries currently receiving benefit payments	138,353 <sup>1</sup>
b. Inactive employees entitled to but not yet receiving benefit payments	15,451
c. Active employees	<u>221,404</u> <sup>2</sup>
d. Total	375,208

<sup>1</sup> Includes 4,947 retirees not enrolled in a health plan and 348 retirees who receive the Opt-Out Credit in lieu of health benefits.

<sup>2</sup> Includes return-to-work retirees and employees who have not yet satisfied the waiting period.

4. Brief Description of Benefit Provisions

- a. The GBP provides self-funded group health (medical and prescription drug) benefits for eligible retirees under HealthSelect. The GBP also provides a fully insured medical benefit option for Medicare-primary participants under the HealthSelect Medicare Advantage Plan. An eligible retiree who has retired from full-time employment does not contribute toward the cost of coverage for himself/herself, but he/she pays a portion of the cost if he/she covers an eligible spouse or dependent child\*. An eligible retiree who has retired from part-time employment contributes toward the cost of coverage for himself/herself, as well as paying a portion of the cost if he/she covers an eligible spouse or dependent child.
  - b. The GBP also provides life insurance benefits to eligible retirees via a minimum premium funding arrangement.
    - \* SB 1459 requires employees who have less than 5 years of eligible service credit on September 1, 2014 to pay a larger portion of the cost of insurance if they retire with less than 20 years of eligible service credit on or after September 1, 2014.
5. The authority under which the obligations of the plan members and Employer are established and/or may be amended is Chapter 1551, Texas Insurance Code.
6. The Employer and member contribution rates are determined annually by the ERS Board Trustees based on the recommendations of the ERS staff and consulting actuary. The contribution rates are determined based on (i) the benefit and administrative costs expected to be incurred, (ii) the funds appropriated and (iii) the

funding policy established by the Texas Legislature in connection with benefits provided through the GBP. The Trustees revise benefits when necessary to match expected benefit and administrative costs with the revenue expected to be generated by the appropriated funds.

7. There are no long-term contracts for contributions to the plan.

## B. Net OPEB Liability

The Employer's Net OPEB Liability reported for fiscal years ending on or before August 31, 2023 was measured as of August 31, 2022, and the Total OPEB Liability used to calculate the Net OPEB Liability was determined by an actuarial valuation as of that same date.

The components of the Net OPEB Liability of the Employer at August 31, 2022 were as follows:

<b>Total OPEB Liability</b>	\$ 28,649,540,234
<b>Plan Fiduciary Net Position</b>	<u>162,574,529</u>
<b>Net OPEB Liability</b>	<u>\$ 28,486,965,705<sup>1</sup></u>
<b>Plan Fiduciary Net Position as a percentage of the Total OPEB Liability</b>	0.57%

### 1. Actuarial Assumptions

The Total OPEB Liability was determined by an actuarial valuation as of August 31, 2022 using the following actuarial assumptions, applied to all periods included in the measurement, unless otherwise specified:

Inflation	2.30%
Salary increases	2.30% to 8.95% <sup>2</sup>
Discount rate	3.59%
Healthcare cost trend rates	
Medical (HealthSelect)	5.60% for FY2024, 5.30% for FY2025, 5.00% for FY2026, 4.75% for FY2027, 4.60% for FY2028, decreasing 10 basis points per year to an ultimate rate of 4.30% for FY2031 and later years
Medical (HealthSelect Medicare Advantage)	66.67% for FY2024, 24.00% for FY2025, 5.00% for FY2026, 4.75% for FY2027, 4.60% for FY2028, decreasing 10 basis points per year to an ultimate rate of 4.30% for FY2031 and later years
Pharmacy	10.00% for FY2024, 10.00% for FY2025, decreasing 100 basis points per year to 5.00% for FY2030 and 4.30% for FY2031 and later years

<sup>1</sup> Composed of a current portion of \$740,600,383 and a long-term portion of \$27,746,365,322.

<sup>2</sup> Includes inflation.

- Mortality
1. State Agency Members
    - a. Service Retirees, Survivors and other Inactive Members (Regular, Elected, CPO/CO and JRS I and II Employee Classes):  
 2020 State Retirees of Texas Mortality table with a 1 year set forward for male CPO/CO members. Generational mortality improvements in accordance with the Ultimate MP-2019 Projection Scale are projected from the year 2020.
    - b. Disability Retirees (Regular, Elected, CPO/CO and JRS I and II Employee Classes):  
 2020 State Retirees of Texas Mortality table set forward three years for males and females. Generational mortality improvements in accordance with the Ultimate MP-2019 Projection Scale are projected from the year 2020. Minimum rates of 3.0% and 2.5% apply at all ages for males and females, respectively.
    - c. Active Members:  
 Pub-2010 General Employees Active Member Mortality table for non-CPO/CO members. Pub-2010 Public Safety Active Member Mortality table for CPO/CO members. Generational mortality improvements in accordance with the Ultimate MP-2019 Projection Scale are projected from the year 2010.
  2. Higher Education Members
    - a. Service Retirees, Survivors and other Inactive Members:  
 Tables based on TRS experience with Ultimate MP-2021 Projection Scale from the year 2021.
    - b. Disability Retirees:  
 Tables based on TRS experience with Ultimate MP-2021 Projection Scale from the year 2021 using a 3-year set forward and minimum mortality rates of four per 100 male members and two per 100 female members.
    - c. Active Members:  
 Sex Distinct Pub-2010 Amount-Weighted Below-Median Income Teacher Mortality with a 2-year set forward for males with Ultimate MP-2021 Projection Scale from the year 2010.

Many of the actuarial assumptions used in this valuation were based on the results of actuarial experience studies performed by the ERS retirement plan actuary as of August 31, 2019 and the TRS retirement plan actuary as of August 31, 2021.

Several assumptions or other inputs have been updated since the prior valuation as shown in Section VI of this report.

2. Discount Rate

- a. Discount Rate: 3.59%; the discount rate used to measure the Total OPEB Liability was 3.59%. The change in the discount rate since the OPEB plan's prior fiscal year-end is an increase of 1.45% (i.e., from 2.14% to 3.59%) in order to reflect the requirements of GASB No. 75.
- b. Projected Cash Flows: Projected cash flows into the plan are equal to projected benefit payments out of the plan.
- c. Long-Term Expected Rate of Return: N/A; the plan operates on a PAYGO basis and is not intended to accumulate assets.
- d. Municipal Bond Rate: 3.59%; the source of the municipal bond rate is the Bond Buyer Index of general obligation bonds with 20 years to maturity and mixed credit quality. In describing their index, the Bond Buyer notes that the bonds' average credit quality is roughly equivalent to Moody's Investors Service's Aa2 rating and Standard & Poor's Corp.'s AA.
- e. Years of Projected Benefit Payments to which Long-Term Expected Rate of Return Applies: 0 years
- f. Assumed Asset Allocation, Long-Term Expected Real Rate of Return for Each Asset Class and Arithmetic vs. Geometric return: N/A; the plan operates on a PAYGO basis and is not intended to accumulate assets.

3. Sensitivity of the Net OPEB Liability to Changes in the Discount Rate

The following presents the Net OPEB Liability reported for fiscal years ending on or before August 31, 2023 and measured as of August 31, 2022, as well as what the Net OPEB Liability would be if it were calculated using a discount rate that is 1-percentage-point lower (2.59%) or 1-percentage-point higher (4.59%) than the current discount rate:

	<b>1% Decrease (2.59%)</b>	<b>Current Discount Rate (3.59%)</b>	<b>1% Increase (4.59%)</b>
Net OPEB Liability/(Asset)	\$33,224,410,487	\$28,486,965,705	\$24,698,148,556

4. Sensitivity of the Net OPEB Liability to Changes in the Healthcare Cost Trend Rates

The following presents the Net OPEB Liability reported for fiscal years ending on or before August 31, 2023 and measured as of August 31, 2022, as well as what the Net OPEB Liability would be if it were calculated using healthcare cost trend rates that are 1-percentage-point lower or 1-percentage-point higher than the current healthcare cost trend rates:

	<b>1% Decrease<sup>1</sup></b>	<b>Current Healthcare Cost Trend Rates<sup>1</sup></b>	<b>1% Increase<sup>1</sup></b>
Net OPEB Liability/(Asset)	\$24,395,171,244	\$28,486,965,705	\$33,711,082,728

<sup>1</sup> Healthcare Cost Trend Rates and -1%/+1% sensitivities are shown below. The -1%/+1% sensitivities also apply to the assumed trend rates for Retiree Contributions and Expenses. See items B.2.e. through B.2.g. in Section VI for more details of the trend assumptions.

Fiscal Year	Medical (HealthSelect)			Medical (HealthSelect Medicare Advantage)			Pharmacy		
	1% Decrease	Healthcare Cost Trend Rates	1% Increase	1% Decrease	Healthcare Cost Trend Rates	1% Increase	1% Decrease	Healthcare Cost Trend Rates	1% Increase
2024	4.60%	5.60%	6.60%	65.67%	66.67%	67.67%	9.00%	10.00%	11.00%
2025	4.30%	5.30%	6.30%	23.00%	24.00%	25.00%	9.00%	10.00%	11.00%
2026	4.00%	5.00%	6.00%	4.00%	5.00%	6.00%	8.00%	9.00%	10.00%
2027	3.75%	4.75%	5.75%	3.75%	4.75%	5.75%	7.00%	8.00%	9.00%
2028	3.60%	4.60%	5.60%	3.60%	4.60%	5.60%	6.00%	7.00%	8.00%
2029	3.50%	4.50%	5.50%	3.50%	4.50%	5.50%	5.00%	6.00%	7.00%
2030	3.40%	4.40%	5.40%	3.40%	4.40%	5.40%	4.00%	5.00%	6.00%
2031 and beyond	3.30%	4.30%	5.30%	3.30%	4.30%	5.30%	3.30%	4.30%	5.30%



### C. Changes in the Net OPEB Liability

	Increase (Decrease)		
	Total OPEB Liability (a)	Plan Fiduciary Net Position (b)	Net OPEB Liability (a) – (b)
<b>Balance at August 31, 2021 Measurement Date<sup>1</sup></b>	\$ 36,011,160,299	\$ 135,652,891	\$35,875,507,408
<b>Changes for the year:</b>			
Service cost	\$ 1,617,051,996		\$ 1,617,051,996
Interest	797,736,127		797,736,127
Changes of benefit terms	0		0
Differences between expected and actual experience	(482,638,559)		(482,638,559)
Contributions – employer		\$ 699,999,453	(699,999,453)
Contributions – Non-Employer Contributing Entity		36,750,724	(36,750,724)
Contributions – employee		190,659,955	(190,659,955)
Contributions – Federal Revenues for Medicare Part D RDS		1,587,532	(1,587,532)
Other (Federal Revenues)		111,533,019	(111,533,019)
Other (Other Additions)		0	0
Net investment income		738,182	(738,182)
Benefit payments, including refunds of employee contributions	(705,380,336)	(705,380,336)	0
Benefit payments financed by employee contributions and Federal Revenues		(302,192,974)	302,192,974
Administrative expenses		(6,773,917)	6,773,917
Assumption changes <sup>2</sup>	(8,588,389,293)	0	(8,588,389,293)
Other changes	<u>0</u>	<u>0</u>	<u>0</u>
<b>Net changes</b>	<b>\$ (7,361,620,065)</b>	<b>\$ 26,921,638</b>	<b>\$ (7,388,541,703)</b>
<b>Balance at August 31, 2022 Measurement Date<sup>3</sup></b>	<b>\$ 28,649,540,234</b>	<b>\$ 162,574,529</b>	<b>\$28,486,965,705</b>

<sup>1</sup> Information for fiscal years ending on or before August 31, 2022 was taken as of the measurement date of August 31, 2021 as permitted by Paragraph No. 59 of GASB No. 75.

<sup>2</sup> Composed of \$(7,304,360,778) due to the change in discount rate and \$(1,284,028,515) due to other assumption changes.

<sup>3</sup> Information for fiscal years ending on or before August 31, 2023 was taken as of the measurement date of August 31, 2022 as permitted by Paragraph No. 59 of GASB No. 75.

#### OPEB Plan Fiduciary Net Position

Detailed information about the OPEB plan's fiduciary net position is shown in Section IV of the GBP OPEB GASB No. 74 actuarial valuation report dated November 22, 2022.

**D. OPEB Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB**

For fiscal years ending on or before August 31, 2023, the Employer recognized OPEB expense of \$(1,037,634,186).

**1. Components of OPEB Expense for the Measurement Year Ended August 31, 2022 and Employer Reporting for Fiscal Years Ending on or before August 31, 2023**

Service Cost	\$ 1,617,051,996
Interest on the total OPEB liability	797,736,127
Amortization of differences between expected and actual experience <sup>1</sup>	(463,826,341)
Amortization of changes of assumptions <sup>1</sup>	(2,996,071,948)
Employee contributions	(190,659,955)
Other (Federal Revenues and Other Additions)	(111,533,019)
Benefit payments financed by Employee Contributions and Federal Revenues	302,192,974
Projected earnings on OPEB plan investments	(3,181,652)
Amortization of differences between projected and actual earnings on OPEB plan investments <sup>2</sup>	3,883,715
OPEB plan administrative expense	<u>6,773,917</u>
Total OPEB expense	<u>\$(1,037,634,186)</u>

At the end of FY23<sup>3</sup>, the Employer reported deferred outflows of resources and deferred inflows of resources related to OPEB from the sources listed in the table below.

**2. Balances of Deferred Outflows of Resources and Deferred Inflows of Resources as of the Measurement Year Ended August 31, 2022 for Employer Reporting for Fiscal Years Ending on or before August 31, 2023**

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ 0	\$ 898,798,041
Changes of assumptions	1,673,722,807	8,805,590,690
Net difference between projected and actual earnings on OPEB plan investments	<u>4,913,512</u>	<u>0</u>
Total excluding post-measurement date contributions	<u>\$ 1,678,636,319<sup>4</sup></u>	<u>\$ 9,704,388,731</u>

<sup>1</sup> Per Paragraph No. 86.a. of GASB No. 75, amortized over a straight-line closed period equal to the average remaining service period for all employees (active and inactive) who are provided with benefits through the OPEB plan.

<sup>2</sup> Per Paragraph No. 86.b. of GASB No. 75, amortized over a straight-line closed 5-year period.

<sup>3</sup> Amounts recognized in the fiscal year represent changes between the current and prior measurement dates.

<sup>4</sup> Contributions made after the measurement date of August 31, 2022 and before the cost-sharing employer's Fiscal Year End need to be recognized as deferred outflows in accordance with Paragraph No. 68 of GASB No. 75. At the end of FY23, each reporting entity shall determine their contributions during this period and add this amount to their allocated portion of these deferred outflows.

**3. Change in Deferred Outflows of Resources and Deferred Inflows of Resources**

	<b>Change in Deferred Outflows of Resources</b>	<b>Change in Deferred Inflows of Resources</b>
Differences between expected and actual experience	\$ 0	\$ 18,812,218
Changes of assumptions	(782,455,038)	4,809,862,307
Net difference between projected and actual earnings on OPEB plan investments	<u>(1,440,245)</u>	<u>0</u>
Total	\$ (783,895,283)	\$ 4,828,674,525

**4. Change in Balance Sheet Items**

Change in Net OPEB Liability	\$ (7,388,541,703)
Change in deferred outflows	783,895,283
Change in deferred inflows	4,828,674,525
Employer contributions	<u>738,337,709</u>
Total OPEB expense	\$ (1,037,634,186)

*Contributions made after the measurement date of August 31, 2022 and before the end of FY23 are to be recognized as deferred outflows. Those amounts are not reflected in Sections D.3. or D.4. above, as Sections D.3. and D.4. illustrate changes between the two measurement dates, rather than contributions made subsequent to the measurement date.*

**5. Amounts reported as Deferred Outflows/(Inflows) of resources will be recognized in OPEB expense as follows:**

<b>Measurement Year Ending August 31</b>	<b>Amount</b>
2023	\$ (2,221,067,428)
2024	(1,752,376,213)
2025	(1,687,588,435)
2026	(1,495,345,154)
2027	(869,375,182)
Thereafter	0

## **E. Payable to the OPEB Plan**

At the end of FY23, the Employer reported a payable of \$TBD<sup>1</sup> for the outstanding amount of contributions to the OPEB plan required for fiscal years ending on or before August 31, 2023.

<sup>1</sup> Each cost-sharing employer shall determine this amount, if any, at the end of FY23.

## **F. Change in Proportionate Share**

In accordance with Paragraph No. 96f of GASB No. 75, the Employer shall provide a brief description of the nature of changes between the measurement date of the collective net OPEB liability and the Employer's reporting date that are expected to have a significant effect on the Employer's proportionate share of the collective net OPEB liability, and the amount of the expected resultant change in the Employer's proportionate share of the collective net OPEB liability, if known.

## *Section III – Required Supplementary Information*

### **A. Information to be Presented for Each Cost-Sharing Employer**

*Each employer shall include information in its Required Supplementary Information that comports with the requirements of Paragraph No. 97 of GASB No. 75.*

See Section V of this report for each employer’s proportionate share.

### **B. Notes to the Required Schedules**

*Per Paragraph No. 98 of GASB No. 75, the employer should disclose factors that significantly affect trends in the amounts reported. For example, changes in benefit provisions, changes in the size or composition of the population covered by the benefit terms or changes in actuarial methods and assumptions should be identified.*

#### 1. Significant Methods and Assumptions

**Valuation Date:** August 31, 2022

#### **Methods and assumptions used to determine contribution rates:**

Actuarial cost method	Entry age
Amortization method	Level percentage of payroll, open
Amortization period	30 years
Asset valuation method	Not applicable
Inflation	2.30%
Healthcare cost trend rates	
Medical (HealthSelect)	5.60% for FY2024, 5.30% for FY2025, 5.00% for FY2026, 4.75% for FY2027, 4.60% for FY2028, decreasing 10 basis points per year to an ultimate rate of 4.30% for FY2031 and later years
Medical (HealthSelect Medicare Advantage)	66.67% for FY2024, 24.00% for FY2025, 5.00% for FY2026, 4.75% for FY2027, 4.60% for FY2028, decreasing 10 basis points per year to an ultimate rate of 4.30% for FY2031 and later years
Pharmacy	10.00% for FY2024, 10.00% for FY2025, decreasing 100 basis points per year to 5.00% for FY2030 and 4.30% for FY2031 and later years
Salary increases	2.30% to 8.95%, including inflation
Discount rate	3.59%
Aggregate payroll growth	2.70%
Retirement age	Experience-based tables of rates that are specific to the class of employee.

Mortality

1. State Agency Members
  - a. Service Retirees, Survivors and other Inactive Members (Regular, Elected, CPO/CO and JRS I and II Employee Classes):  
 2020 State Retirees of Texas Mortality table with a 1 year set forward for male CPO/CO members. Generational mortality improvements in accordance with the Ultimate MP-2019 Projection Scale are projected from the year 2020.
  - b. Disability Retirees (Regular, Elected, CPO/CO and JRS I and II Employee Classes):  
 2020 State Retirees of Texas Mortality table set forward three years for males and females. Generational mortality improvements in accordance with the Ultimate MP-2019 Projection Scale are projected from the year 2020. Minimum rates of 3.0% and 2.5% apply at all ages for males and females, respectively.
  - c. Active Members:  
 Pub-2010 General Employees Active Member Mortality table for non-CPO/CO members. Pub-2010 Public Safety Active Member Mortality table for CPO/CO members. Generational mortality improvements in accordance with the Ultimate MP-2019 Projection Scale are projected from the year 2010.
2. Higher Education Members
  - a. Service Retirees, Survivors and other Inactive Members:  
 Tables based on TRS experience with Ultimate MP-2021 Projection Scale from the year 2021.
  - b. Disability Retirees:  
 Tables based on TRS experience with Ultimate MP-2021 Projection Scale from the year 2021 using a 3-year set forward and minimum mortality rates of four per 100 male members and two per 100 female members.
  - c. Active Members:  
 Sex Distinct Pub-2010 Amount-Weighted Below-Median Income Teacher Mortality with a 2-year set forward for males with Ultimate MP-2021 Projection Scale from the year 2010.

2. Factors that Significantly Affect Trends in Amounts Reported

- a. The following assumptions or other inputs have been updated since the previous valuation:
  - i. **Demographic Assumptions**

Since the last valuation was prepared for this plan, demographic assumptions (including rates of retirement, disability, termination, and mortality, and assumed salary increases) for Higher Education members have been updated to

reflect assumptions recently adopted by the TRS Trustees. These new assumptions were adopted to reflect an experience study on the TRS retirement plan performed by the TRS retirement plan actuary.

In addition, the following assumptions have been updated since the previous valuation to reflect recent plan experience and expected trends:

- Percentage of current retirees and retiree spouses not yet eligible to participate in the HealthSelect Medicare Advantage Plan and future retirees and retiree spouses who will elect to participate in the plan at the earliest date at which coverage can commence.
- Proportion of future retirees assumed to cover dependent children.
- Proportion of future retirees assumed to elect health coverage at retirement and proportion of future retirees expected to receive the Opt-Out Credit at retirement.

ii. **Economic Assumptions**

- Assumed Per Capita Health Benefit Costs and Health Benefit Cost and Retiree Contribution trends have been updated since the previous valuation to reflect recent health plan experience and its effects on our short-term expectations.
- The Patient-Centered Outcomes Research Institute fee payable under the Affordable Care Act has been updated to reflect the most recent available information.

iii. **Other Inputs**

The discount rate was changed from 2.14% to 3.59% as a result of requirements by GASB No. 75 to utilize the yield or index rate for 20-year, tax-exempt general obligation bonds rated AA/Aa (or equivalent) or higher in effect on the measurement date.

Please see our previous GASB No. 75 valuation report dated March 1, 2022 for a complete list of our previous assumptions and other inputs.

- b. Minor benefit revisions have been adopted since the prior valuation. These changes, which are not expected to have a significant impact on plan costs for FY2023, are provided for in the FY2023 Assumed Per Capita Health Benefit Costs.

**Section IV – Additional Information**

**A. Schedule of Changes in the Employer’s Net OPEB Liability and Related Ratios**

Last 10 Fiscal Years<sup>1,2</sup>

	Measurement Year Ended August 31		
	2022	2021	2020
<b>1. Total OPEB Liability</b>			
a. Service cost	\$ 1,617,051,996	\$ 1,564,917,848	\$ 1,539,978,468
b. Interest	797,736,127	755,312,066	1,063,158,517
c. Changes of benefit terms	0	0	0
d. Differences between expected and actual experience	(482,638,559)	(15,785,855)	(818,423,526)
e. Changes of assumptions	(8,588,389,293) <sup>3</sup>	1,325,578,401 <sup>4</sup>	(2,520,336,975) <sup>5</sup>
f. Benefit payments, including refunds of employee contributions <sup>9</sup>	(705,380,336)	(768,441,310)	(737,408,414)
<b>g. Net Change in Total OPEB Liability</b>	\$ (7,361,620,065)	\$ 2,861,581,150	\$ (1,473,031,930)
<b>h. Total OPEB Liability – Beginning</b>	36,011,160,299	33,149,579,149	34,622,611,079
<b>i. Total OPEB Liability – Ending</b>	\$ 28,649,540,234	\$ 36,011,160,299	\$ 33,149,579,149
<b>2. Plan Fiduciary Net Position</b>			
a. Contributions – employer	\$ 699,999,453	\$ 766,689,167	\$ 748,369,212
b. Contributions – <b>Non-Employer Contributing Entity</b>	36,750,724	39,188,518	37,736,903
c. Contributions – employee	190,659,955	192,426,941	230,151,101
d. Contributions – Federal Revenues for Medicare Part D Retiree Drug Subsidies	1,587,532	1,583,706	1,768,189
e. Contributions – adjustments	0	0	0
f. Net investment income	738,182	233,492	1,336,271
g. Benefit payments, including refunds of employee contributions	(705,380,336)	(768,441,310)	(737,408,414)
h. Benefit payments financed by employee contributions and Federal Revenues	(302,192,974)	(298,455,540)	(339,481,418)
i. Administrative expense	(6,773,917)	(8,607,491)	(6,814,878)
j. Other – Federal Revenues <sup>10</sup>	111,533,019	106,028,599	109,330,317
k. Other additions	0	59,357	23,705
<b>l. Net Change in Plan Fiduciary Net Position</b>	\$ 26,921,638	\$ 30,705,439	\$ 45,010,988
<b>m. Plan Fiduciary Net Position – Beginning</b>	135,652,891	104,947,452	59,936,464
<b>n. Plan Fiduciary Net Position – Ending</b>	\$ 162,574,529	\$ 135,652,891	\$ 104,947,452
<b>3. Employer’s Net OPEB Liability – Ending [Item 1(i) – 2(n)]</b>	\$ 28,486,965,705	\$ 35,875,507,408	\$ 33,044,631,697
<b>4. Plan Fiduciary Net Position as a Percentage of the Total OPEB Liability</b>	0.57%	0.38%	0.32%
<b>5. Covered-Employee Payroll</b>	\$ 12,734,129,932	\$ 12,586,390,133	\$ 12,655,246,687
<b>6. Employer’s Net OPEB Liability as a Percentage of Covered-Employee Payroll</b>	223.71%	285.03%	261.11%

See Notes to Schedule on page IV-3.

Last 10 Fiscal Years<sup>1,2</sup>

	Measurement Year Ended August 31		
	2019	2018	2017
<b>1. Total OPEB Liability</b>			
a. Service cost	\$ 1,206,105,801	\$ 1,495,979,208	\$ 2,303,978,626
b. Interest	1,221,955,155	1,261,854,477	1,225,588,297
c. Changes of benefit terms	0	0	0
d. Differences between expected and actual experience	(89,008,957)	(935,688,538)	(501,666,343)
e. Changes of assumptions	3,006,228,472 <sup>6</sup>	(5,924,044,741) <sup>7</sup>	(8,728,820,673) <sup>8</sup>
f. Benefit payments, including refunds of employee contributions <sup>9</sup>	(740,841,378)	(662,722,913)	(728,548,091)
<b>g. Net Change in Total OPEB Liability</b>	\$ 4,604,439,093	\$ (4,764,622,507)	\$ (6,429,468,184)
<b>h. Total OPEB Liability – Beginning</b>	30,018,171,986	34,782,794,493	41,212,262,677
<b>i. Total OPEB Liability – Ending</b>	\$ 34,622,611,079	\$ 30,018,171,986	\$ 34,782,794,493
<b>2. Plan Fiduciary Net Position</b>			
a. Contributions – employer	\$ 401,284,833	\$ 307,028,461	\$ 892,204,840
b. Contributions – <b>Non-Employer Contributing Entity</b>	20,182,872	16,585,270	45,035,437
c. Contributions – employee	209,836,664	203,123,120	195,806,162
d. Contributions – Federal Revenues for Medicare Part D Retiree Drug Subsidies	1,479,713	1,417,806	1,658,573
e. Contributions – adjustments	0	0	(2,071,361)
f. Net investment income	3,323,499	10,906,797	4,516,817
g. Benefit payments, including refunds of employee contributions	(740,841,378)	(662,722,913)	(728,548,091)
h. Benefit payments financed by employee contributions and Federal Revenues	(297,746,318)	(276,198,100)	(267,267,712)
i. Administrative expense	(6,008,207)	(5,817,620)	(5,628,689)
j. Other – Federal Revenues <sup>10</sup>	87,909,654	73,074,980	71,461,550
k. Other additions	85,470	3,249,101	356,575
<b>l. Net Change in Plan Fiduciary Net Position</b>	\$ (320,493,198)	\$ (329,353,098)	\$ 207,524,101
<b>m. Plan Fiduciary Net Position – Beginning</b>	380,429,662	709,782,760	502,258,659
<b>n. Plan Fiduciary Net Position – Ending</b>	\$ 59,936,464	\$ 380,429,662	\$ 709,782,760
<b>3. Employer’s Net OPEB Liability – Ending [Item 1(i) – 2(n)]</b>	\$ 34,562,674,615	\$ 29,637,742,324	\$ 34,073,011,733
<b>4. Plan Fiduciary Net Position as a Percentage of the Total OPEB Liability</b>	0.17%	1.27%	2.04%
<b>5. Covered-Employee Payroll</b>	\$ 12,320,028,164	\$ 12,047,166,658	\$ 11,745,310,057
<b>6. Employer’s Net OPEB Liability as a Percentage of Covered-Employee Payroll</b>	280.54%	246.01%	290.10%

See Notes to Schedule on following page.

Notes to Schedule:

- <sup>1</sup> Until a full 10-year trend is compiled, governments should present information for those years for which information is available.
- <sup>2</sup> Information is presented using a measurement date on the last day of the preceding fiscal year (e.g., a measurement date of August 31, 2022 was used for FY23).
- <sup>3</sup> Changes in assumptions and other inputs for measurement year ended August 31, 2022 include (a) discount rate increased from 2.14% to 3.59%, (b) percentage of current retirees and their spouses not yet eligible to participate in the HealthSelect Medicare Advantage Plan and future retirees and their spouses who will elect to participate in the plan at the earliest date at which coverage can commence, (c) proportion of future retirees assumed to elect health coverage at retirement and proportion of future retirees expected to receive the Opt-Out Credit at retirement, (d) demographic assumptions (including rates of retirement, disability, termination, and mortality, and assumed salary increases) for Higher Education members, (e) proportion of future retirees assumed to cover dependent children, (f) the Patient-Centered Outcomes Research Institute fee payable under the Affordable Care Act and (g) assumptions for Assumed Per Capita Health Benefit Costs and Health Benefit Cost and Retiree Contribution trends.
- <sup>4</sup> Changes in assumptions and other inputs for measurement year ended August 31, 2021 include (a) discount rate decreased from 2.20% to 2.14%, (b) percentage of current retirees and their spouses not yet eligible to participate in the HealthSelect Medicare Advantage Plan and future retirees and their spouses who will elect to participate in the plan at the earliest date at which coverage can commence, (c) percentage of members assumed to be married and electing coverage for their spouse, (d) proportion of future retirees assumed to elect health coverage at retirement and proportion of future retirees expected to receive the Opt-Out Credit at retirement, (e) the percentage of Higher Education vested terminated members assumed to have terminated less than one year before the valuation date, (f) the annual rate of increase in the Patient-Centered Outcomes Research Institute fee payable under the Affordable Care Act and (g) assumptions for Assumed Per Capita Health Benefit Costs and Health Benefit Cost and Retiree Contribution trends. In addition, the assumption for expenses directly related to the payment of GBP HealthSelect medical benefits has been updated to reflect recent contract revisions.
- <sup>5</sup> Changes in assumptions and other inputs for measurement year ended August 31, 2020 include (a) demographic assumptions (including rates of retirement, termination and mortality and assumed salary increases for select classes of State Agency members), (b) assumed aggregate payroll increases and rate of general inflation, (c) discount rate decreased from 2.97% to 2.20%, (d) percentage of current retirees and their spouses not yet eligible to participate in the HealthSelect Medicare Advantage Plan and future retirees and their spouses who will elect to participate in the plan at the earliest date at which coverage can commence, (e) percentage of female members assumed to be married and electing coverage for their spouse, (f) proportion of future retirees assumed to cover dependent children, (g) assumed PCORI fees and (h) assumptions for Assumed Per Capita Health Benefit Costs and Health Benefit Cost and Retiree Contribution trends.
- <sup>6</sup> Changes in assumptions and other inputs for measurement year ended August 31, 2019 include (a) discount rate decreased from 3.96% to 2.97%, (b) percentage of current retirees and their spouses not yet eligible to participate in the HealthSelect Medicare Advantage Plan and future retirees and their spouses who will elect to participate in the plan at the earliest date at which coverage can commence, (c) percentage of male members assumed to be married and electing coverage for their spouse, (d) percentage of future retirees and future retiree spouses assumed to use tobacco and (e) assumptions for Assumed Per Capita Health Benefit Costs and Health Benefit Cost and Retiree Contribution trends.
- <sup>7</sup> Changes in assumptions and other inputs for measurement year ended August 31, 2018 include (a) demographic assumptions (including rates of retirement, disability, termination, and mortality, and assumed salary increases) for Higher Education members, (b) discount rate increased from 3.51% to 3.96%, (c) percentage of current retirees and their spouses not yet eligible to participate in the HealthSelect Medicare Advantage Plan and future retirees and their spouses who will elect to participate in the plan at the earliest date at which coverage can commence, (d) percentage of members assumed to be married and electing coverage for their spouse, and (e) assumptions for Expenses, Assumed Per Capita Health Benefit Costs and Health Benefit Cost Retiree Contribution, and Expense trends.
- <sup>8</sup> Changes in assumptions and other inputs for measurement year ended August 31, 2017 include (a) demographic assumptions (including rates of retirement, disability, termination, and mortality, assumed salary increases and assumed age difference for future retirees and their spouses for select classes of State Agency members), (b) assumed aggregate payroll increases and rate of general inflation, (c) discount rate increased from 2.84% to 3.51%, (d) percentage of current retirees and their spouses not yet eligible to participate in the HealthSelect Medicare Advantage Plan and future retirees and their spouses who will elect to participate in the plan at the earliest date at which coverage can commence, (e) proportion of future retirees covering dependent children, (f) percentage of members assumed to be married and electing coverage for their spouse, and (g) assumptions for Expenses, Assumed Per Capita Health Benefit Costs and Health Benefit Cost Retiree Contribution, and Expense trends.
- <sup>9</sup> Benefit payments include expenses directly related to the payment of benefits and are net of member contributions and Federal Revenues.
- <sup>10</sup> Excludes Federal Revenues for Medicare Part D Retiree Drug Subsidies.



## *Appendix A*

### **Amortization Schedules of Outflows and Inflows of Resources**



## A. Schedule of Differences between Expected and Actual Experience

In accordance with Paragraph No. 86a of GASB No. 75, the effects of differences between expected and actual experience should be included in OPEB expense, beginning in the current measurement period, using a systematic and rational method over a closed period equal to the average of the expected remaining service lives of all employees that are provided with OPEB through the OPEB plan (active and inactive employees) determined as of the beginning of the measurement period. The following table illustrates the application of this requirement.

Measurement Period Ended 8/31	Differences Between Expected and Actual Experience <sup>1</sup>	Average Expected Remaining Service Lives (Years)	Increase (Decrease) in OPEB Expense Arising from the Effects of Differences between Expected and Actual Experience (Measurement Period Ended 8/31)									
			Pre-2019	2019	2020	2021	2022	2023	2024	2025	2026	2027
2017	\$ (501,666,343)	5.44	\$ (184,436,156)	\$ (92,218,078)	\$ (92,218,078)	\$ (92,218,078)	\$ (40,575,953)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
2018	\$ (935,688,538)	5.60	(167,087,239)	(167,087,239)	(167,087,239)	(167,087,239)	(167,087,239)	(100,252,343)	0	0	0	0
2019	\$ (89,008,957)	5.50		(16,183,447)	(16,183,447)	(16,183,447)	(16,183,447)	(16,183,447)	(8,091,722)	0	0	0
2020	\$ (818,423,526)	5.46			(149,894,419)	(149,894,419)	(149,894,419)	(149,894,419)	(149,894,419)	(68,951,431)	0	0
2021	\$ (15,785,855)	5.62				(2,808,871)	(2,808,871)	(2,808,871)	(2,808,871)	(2,808,871)	(1,741,500)	0
2022	\$ (482,638,559)	5.53					(87,276,412)	(87,276,412)	(87,276,412)	(87,276,412)	(87,276,412)	(46,256,499)
Net increase (decrease) in OPEB expense			<u>\$ (351,523,395)</u>	<u>\$ (275,488,764)</u>	<u>\$ (425,383,183)</u>	<u>\$ (428,192,054)</u>	<u>\$ (463,826,341)</u>	<sup>2</sup> <u>\$ (356,415,492)</u>	<u>\$ (248,071,424)</u>	<u>\$ (159,036,714)</u>	<u>\$ (89,017,912)</u>	<u>\$ (46,256,499)</u>

<sup>1</sup> See the Schedule of Changes in the Net OPEB Liability in Section IV.A. Positive amounts represent actual experience that increases the total OPEB liability greater than projected or decreases the total OPEB liability less than projected (experience losses) and result in increases in OPEB expense and deferred outflows of resources. Negative amounts represent actual experience that increases the total OPEB liability less than projected or decreases the total OPEB liability greater than projected (experience gains) and result in decreases in OPEB expense and increases in deferred inflows of resources.

<sup>2</sup> Amount included in OPEB expense for measurement period ended August 31, 2022. See differences between expected and actual experience in Section II.D.1.



## B. Schedule of Changes of Assumptions

In accordance with Paragraph No. 86a of GASB No. 75, the effects of changes of assumptions should be included in OPEB expense, beginning in the current measurement period, using a systematic and rational method over a closed period equal to the average of the expected remaining service lives of all employees that are provided with OPEB through the OPEB plan (active and inactive employees) determined as of the beginning of the measurement period. The following table illustrates the application of this requirement.

Measurement Period Ended 8/31	Changes of Assumptions <sup>1</sup>	Average Expected Remaining Service Lives (Years)	Increase (Decrease) in OPEB Expense Arising from the Effects of Changes of Assumptions (Measurement Period Ended 8/31)									
			Pre-2019	2019	2020	2021	2022	2023	2024	2025	2026	2027
2017	\$(8,728,820,673)	5.44	\$(3,209,125,248)	\$(1,604,562,624)	\$(1,604,562,624)	\$(1,604,562,624)	\$(706,007,553)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
2018	\$(5,924,044,741)	5.60	(1,057,865,132)	(1,057,865,132)	(1,057,865,132)	(1,057,865,132)	(1,057,865,132)	(634,719,081)	0	0	0	0
2019	\$ 3,006,228,472	5.50		546,586,995	546,586,995	546,586,995	546,586,995	546,586,995	273,293,497	0	0	0
2020	\$(2,520,336,975)	5.46			(461,600,179)	(461,600,179)	(461,600,179)	(461,600,179)	(461,600,179)	(212,336,080)	0	0
2021	\$ 1,325,578,401	5.62				235,868,043	235,868,043	235,868,043	235,868,043	235,868,043	146,238,186	0
2022	\$(8,588,389,293)	5.53					(1,553,054,122)	(1,553,054,122)	(1,553,054,122)	(1,553,054,122)	(1,553,054,122)	(823,118,683)
Net increase (decrease) in OPEB expense			<u>\$(4,266,990,380)</u>	<u>\$(2,115,840,761)</u>	<u>\$(2,577,440,940)</u>	<u>\$(2,341,572,897)</u>	<u>\$(2,996,071,948)</u>	<sup>2</sup> <u>\$(1,866,918,344)</u>	<u>\$(1,505,492,761)</u>	<u>\$(1,529,522,159)</u>	<u>\$(1,406,815,936)</u>	<u>\$(823,118,683)</u>

<sup>1</sup> See the Schedule of Changes in the Net OPEB Liability in Section IV.A. Positive amounts represent increases in the total OPEB liability from assumption changes and result in increases in OPEB expense and deferred outflows of resources. Negative amounts represent decreases in the total OPEB liability from assumption changes and result in decreases in OPEB expense and increases in deferred inflows of resources.

<sup>2</sup> Amount included in OPEB expense for measurement period ended August 31, 2022. See changes of assumptions in Section II.D.1.



### C. Schedule of Differences between Projected and Actual Earnings on OPEB Plan Investments

In accordance with Paragraph No. 86b of GASB No. 75, the effects of differences between projected and actual earnings on OPEB plan investments should be included in OPEB expense using a systematic and rational method over a closed five-year period, beginning in the current measurement period. The following table illustrates the application of this requirement.

Increase (Decrease) in OPEB Expense Arising from the Differences between Projected and Actual Earnings on OPEB Plan Investments (Measurement Period Ended 8/31)

Measurement Period Ended 8/31	Differences between Projected and Actual Earnings on OPEB Plan Investments <sup>1</sup>	Closed Five-Year Period	Increase (Decrease) in OPEB Expense Arising from the Differences between Projected and Actual Earnings on OPEB Plan Investments (Measurement Period Ended 8/31)									
			Pre-2019	2019	2020	2021	2022	2023	2024	2025	2026	2027
2017	\$ 12,609,851	5.00	\$ 5,043,940	\$ 2,521,970	\$ 2,521,970	\$ 2,521,971	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
2018	\$ 8,086,517	5.00	1,617,303	1,617,303	1,617,303	1,617,303	1,617,305	0	0	0	0	0
2019	\$ 5,392,193	5.00		1,078,439	1,078,439	1,078,439	1,078,439	1,078,437	0	0	0	0
2020	\$ 1,087,666	5.00			217,533	217,533	217,533	217,533	217,534	0	0	0
2021	\$ 2,408,720	5.00				481,744	481,744	481,744	481,744	481,744	0	0
2022	\$ 2,443,470	5.00					488,694	488,694	488,694	488,694	488,694	0
Net increase (decrease) in OPEB expense			<u>\$ 6,661,243</u>	<u>\$ 5,217,712</u>	<u>\$ 5,435,245</u>	<u>\$ 5,916,990</u>	<u>\$ 3,883,715</u> <sup>2</sup>	<u>\$ 2,266,408</u>	<u>\$ 1,187,972</u>	<u>\$ 970,438</u>	<u>\$ 488,694</u>	<u>\$ 0</u>

<sup>1</sup> Amounts are equal to net investment income (see the Schedule of Changes in the Net OPEB Liability in Section IV.A.) less projected earnings (see the projected earnings on OPEB plan investments in Section II.D.1.). Positive amounts represent investment returns that are less than projected and, therefore, increase OPEB expense. Negative amounts represent investment returns that are greater than projected and, therefore, decrease OPEB expense.

<sup>2</sup> Amount included in OPEB expense for measurement period ended August 31, 2022. See differences between projected and actual earnings on OPEB plan investments in Section II.D.1.



## *Appendix B*

### **Determination of Balances of Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB For the Measurement Year Ending August 31, 2022**

**A. Deferred Outflows of Resources and Deferred Inflows of Resources Arising from Differences between Expected and Actual Experience**

Measurement Period Ended 8/31	Experience Losses <sup>1</sup> (a)	Experience Gains <sup>1</sup> (b)	Amounts Included in OPEB Expense through 8/31/2021 <sup>2</sup> (c)	Balances at 8/31/2021 <sup>3</sup>		Amounts Included in OPEB Expense through 8/31/2022 <sup>4</sup> (d)	Balances at 8/31/2022 <sup>3</sup>	
				Deferred Outflows of Resources (a) – (c)	Deferred Inflows of Resources (b) – (c)		Deferred Outflows of Resources (a) – (d)	Deferred Inflows of Resources (b) – (d)
2017	N/A	\$ (501,666,343)	\$ (461,090,390)	N/A	\$ (40,575,953)	\$ (501,666,343)	N/A	\$ 0
2018	N/A	(935,688,538)	(668,348,956)	N/A	(267,339,582)	(835,436,195)	N/A	(100,252,343)
2019	N/A	(89,008,957)	(48,550,341)	N/A	(40,458,616)	(64,733,788)	N/A	(24,275,169)
2020	N/A	(818,423,526)	(299,788,838)	N/A	(518,634,688)	(449,683,257)	N/A	(368,740,269)
2021	N/A	(15,785,855)	(2,808,871)	N/A	(12,976,984)	(5,617,742)	N/A	(10,168,113)
2022	N/A	(482,638,559)	N/A	N/A	N/A	(87,276,412)	N/A	(395,362,147)
			<u>\$(1,480,587,396)</u>	<u>\$ 0</u>	<u>\$ (879,985,823)</u>	<u>\$(1,944,413,737)</u>	<u>\$ 0</u>	<u>\$ (898,798,041)</u>

- <sup>1</sup> See the Schedule of Changes in the Net OPEB Liability in Section IV.A. or the Schedule of Differences between Expected and Actual Experience in Appendix A. Experience losses are presented as positive amounts. Experience gains are presented as negative amounts.
- <sup>2</sup> Amounts are equal to the sum of increases (decreases) in OPEB expense through the measurement year ending August 31, 2021 due to the differences between expected and actual experience in column (a) or column (b). Positive amounts increase OPEB expense and decrease deferred outflows of resources balances. Negative amounts decrease OPEB expense and decrease deferred inflows of resources balances.
- <sup>3</sup> Deferred outflows of resources are presented as positive amounts. Deferred inflows of resources are presented as negative amounts.
- <sup>4</sup> Amounts are equal to the sum of increases (decreases) in OPEB expense through the measurement year ending August 31, 2022 due to the differences between expected and actual experience in column (a) or column (b). Positive amounts increase OPEB expense and decrease deferred outflows of resources balances. Negative amounts decrease OPEB expense and decrease deferred inflows of resources balances.

**B. Deferred Outflows of Resources and Deferred Inflows of Resources Arising from Changes of Assumptions**

Measurement Period Ended 8/31	Increases in the Total OPEB Liability <sup>1</sup> (a)	Decreases in the Total OPEB Liability <sup>1</sup> (b)	Amounts Included in OPEB Expense through 8/31/2021 <sup>2</sup> (c)	Balances at 8/31/2021 <sup>3</sup>		Amounts Included in OPEB Expense through 8/31/2022 <sup>4</sup> (d)	Balances at 8/31/2022 <sup>3</sup>	
				Deferred Outflows of Resources (a) – (c)	Deferred Inflows of Resources (b) – (c)		Deferred Outflows of Resources (a) – (d)	Deferred Inflows of Resources (b) – (d)
2017	N/A	\$ (8,728,820,673)	\$(8,022,813,120)	N/A	\$ (706,007,553)	\$(8,728,820,673)	N/A	\$ 0
2018	N/A	(5,924,044,741)	(4,231,460,528)	N/A	(1,692,584,213)	(5,289,325,660)	N/A	(634,719,081)
2019	\$ 3,006,228,472	N/A	1,639,760,985	\$ 1,366,467,487	N/A	2,186,347,980	\$ 819,880,492	N/A
2020	N/A	(2,520,336,975)	(923,200,358)	N/A	(1,597,136,617)	(1,384,800,537)	N/A	(1,135,536,438)
2021	1,325,578,401	N/A	235,868,043	1,089,710,358	N/A	471,736,086	853,842,315	N/A
2022	N/A	(8,588,389,293)	N/A	N/A	N/A	(1,553,054,122)	N/A	(7,035,335,171)
			<u>\$(11,301,844,978)</u>	<u>\$ 2,456,177,845</u>	<u>\$ (3,995,728,383)</u>	<u>\$(14,297,916,926)</u>	<u>\$ 1,673,722,807</u>	<u>\$ (8,805,590,690)</u>

- <sup>1</sup> See the Schedule of Changes in the Net OPEB Liability in Section IV.A. or the Schedule of Changes of Assumptions in Appendix A.
- <sup>2</sup> Amounts are equal to the sum of increases (decreases) in OPEB expense through the measurement year ending August 31, 2021 due to the changes of assumptions in column (a) or column (b). Positive amounts increase OPEB expense and decrease deferred outflows of resources balances. Negative amounts decrease OPEB expense and decrease deferred inflows of resources balances.
- <sup>3</sup> Deferred outflows of resources are presented as positive amounts. Deferred inflows of resources are presented as negative amounts.
- <sup>4</sup> Amounts are equal to the sum of increases (decreases) in OPEB expense through the measurement year ending August 31, 2022 due to the changes of assumptions in column (a) or column (b). Positive amounts increase OPEB expense and decrease deferred outflows of resources balances. Negative amounts decrease OPEB expense and decrease deferred inflows of resources balances.

### C. Deferred Outflows of Resources and Deferred Inflows of Resources Arising from Differences between Projected and Actual Earnings on OPEB Plan Investments

Measurement Period Ended 8/31	Investment Earnings Less Than Projected <sup>1</sup> (a)	Investment Earnings Greater Than Projected <sup>1</sup> (b)	Amounts Included in OPEB Expense through 8/31/2021 <sup>2</sup> (c)	Balances at 8/31/2021 <sup>3</sup>		Amounts Included in OPEB Expense through 8/31/2022 <sup>4</sup> (d)	Balances at 8/31/2022 <sup>3</sup>	
				Deferred Outflows of Resources (a) – (c)	Deferred Inflows of Resources (b) – (c)		Deferred Outflows of Resources (a) – (d)	Deferred Inflows of Resources (b) – (d)
2017	\$ 12,609,851	N/A	\$ 12,609,851	\$ 0	N/A	\$ 12,609,851	\$ 0	N/A
2018	8,086,517	N/A	6,469,212	1,617,305	N/A	8,086,517	0	N/A
2019	5,392,193	N/A	3,235,317	2,156,876	N/A	4,313,756	1,078,437	N/A
2020	1,087,666	N/A	435,066	652,600	N/A	652,599	435,067	N/A
2021	2,408,720	N/A	481,744	1,926,976	N/A	963,488	1,445,232	N/A
2022	2,443,470	N/A	N/A	N/A	N/A	488,694	1,954,776	N/A
			<u>\$ 23,231,190</u>	<u>\$ 6,353,757</u>	<u>\$ 0</u>	<u>\$ 27,114,905</u>	<u>\$ 4,913,512</u>	<u>\$ 0</u>

<sup>1</sup> Amounts equal to net investment income (see the Schedule of Changes in the Net OPEB Liability in Section IV.A.) less projected earnings (see the projected earnings on OPEB plan investments in Section II.D.1.). See the Schedule of Differences between Projected and Actual Earnings on OPEB Plan Investments in Appendix A. Investment earnings less than projected are presented as positive amounts. Investment earnings greater than projected are presented as negative amounts.

<sup>2</sup> Amounts are equal to the sum of increases (decreases) in OPEB expense through the measurement year ending August 31, 2021 due to the differences between projected and actual earnings on OPEB plan investments in column (a) or column (b). Positive amounts increase OPEB expense and decrease deferred outflows of resources balances. Negative amounts decrease OPEB expense and decrease deferred inflows of resources balances.

<sup>3</sup> Deferred outflows of resources are presented as positive amounts. Deferred inflows of resources are presented as negative amounts. In conformity with Paragraph No. 86b of GASB No. 75, deferred outflows of resources and deferred inflows of resources arising from differences between projected and actual earnings on OPEB plan investments in different measurement periods are aggregated and reported as a net deferred outflow of resources or a net deferred inflow of resources. Therefore, at August 31, 2021, there is a net deferred outflow of resources arising from differences between projected and actual earnings on OPEB plan investments of \$6,353,757, calculated as the deferred outflow balance of \$6,353,757 net of the deferred inflow balance of \$0. At August 31, 2022, there is a net deferred outflow of resources arising from differences between projected and actual earnings on OPEB plan investments of \$4,913,512, calculated as the deferred outflow balance of \$4,913,512 net of the deferred inflow balance of \$0.

<sup>4</sup> Amounts are equal to the sum of increases (decreases) in OPEB expense through the measurement year ending August 31, 2022 due to the differences between projected and actual earnings on OPEB plan investments in column (a) or column (b). Positive amounts increase OPEB expense and decrease deferred outflows of resources balances. Negative amounts decrease OPEB expense and decrease deferred inflows of resources balances.



**D. Statement of Outflows and Inflows Arising from Current and Prior Measurement Periods for Measurement Year Ending August 31, 2022 to be used for Governmental Employer Reporting for Fiscal Years Ending on or before August 31, 2023**

**1. New Deferred Outflows and Inflows of Resources by Source Established in Fiscal Year**

	Outflows of Resources	Inflows of Resources	Net Outflows of Resources
a. Differences between expected and actual experience	\$ 0	\$ 482,638,559	\$ (482,638,559)
b. Changes of assumptions	0	8,588,389,293	(8,588,389,293)
c. Net difference between projected and actual earnings on OPEB plan investments	<u>2,443,470</u>	<u>0</u>	<u>2,443,470</u>
<b>d. Total</b>	<b>\$ 2,443,470</b>	<b>\$ 9,071,027,852</b>	<b>\$ (9,068,584,382)</b>

**2. Outflows and Inflows of Resources by Source to be Recognized in Current OPEB Expense**

	Outflows of Resources	Inflows of Resources	Net Outflows of Resources
a. Differences between expected and actual experience	\$ 0	\$ 463,826,341	\$ (463,826,341)
b. Changes of assumptions	782,455,038	3,778,526,986	(2,996,071,948)
c. Net difference between projected and actual earnings on OPEB plan investments	<u>3,883,715</u>	<u>0</u>	<u>3,883,715</u>
<b>d. Total</b>	<b>\$ 786,338,753</b>	<b>\$ 4,242,353,327</b>	<b>\$ (3,456,014,574)</b>

**3. Deferred Outflows and Deferred Inflows of Resources by Source to be Recognized in Future OPEB Expenses**

	Outflows of Resources	Inflows of Resources	Net Outflows of Resources
a. Differences between expected and actual experience	\$ 0	\$ 898,798,041	\$ (898,798,041)
b. Changes of assumptions	1,673,722,807	8,805,590,690	(7,131,867,883)
c. Net difference between projected and actual earnings on OPEB plan investments <sup>1</sup>	<u>4,913,512</u>	<u>0</u>	<u>4,913,512</u>
<b>d. Total</b>	<b>\$1,678,636,319</b>	<b>\$ 9,704,388,731</b>	<b>\$ (8,025,752,412)</b>

<sup>1</sup> Contributions made after the measurement date of August 31, 2022 and before the cost-sharing employer's Fiscal Year End need to be recognized as deferred outflows in accordance with Paragraph No. 68 of GASB No. 75. At the end of FY23, each reporting entity shall determine their contributions during this period and add this amount to their allocated portion of these deferred outflows.

**4. Deferred Outflows and Deferred Inflows of Resources by Year to be Recognized in Future OPEB Expenses**

Measurement Year End	Outflows of Resources	Inflows of Resources	Net Outflows of Resources
2023	\$ 784,721,446	\$ 3,005,788,874	\$ (2,221,067,428)
2024	510,349,512	2,262,725,725	(1,752,376,213)
2025	236,838,481	1,924,426,916	(1,687,588,435)
2026	146,726,880	1,642,072,034	(1,495,345,154)
2027	0	869,375,182	(869,375,182)
Thereafter	0	0	0
<b>Total</b>	<b>\$ 1,678,636,319</b>	<b>\$ 9,704,388,731</b>	<b>\$ (8,025,752,412)</b>

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