



September 27, 2022

Board of Trustees
Teachers' Retirement System of Oklahoma
Harvey Parkway Building
301 NW 63rd Street, Suite 500
Oklahoma City, OK 73116-7921

Re: GASB 74 and 75 OPEB Reporting and Disclosure Information for TRS Fiscal Year Ending June 30, 2022

Dear Members of the Board:

This report provides information required by the Teachers' Retirement System of Oklahoma (TRS) in connection with the Governmental Accounting Standards Board (GASB) Statement No. 74, "Financial Reporting for Postemployment Benefit Plans other than Pension Plans." Additionally, this report provides information required by the governmental employers participating in TRS in connection with the GASB Statement No. 75, "Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions." This information can be used by governmental employers in financial reporting for fiscal years ending between (and including) June 30, 2022 and June 30, 2023. The information provided herein was prepared for the purpose of assisting TRS and the governmental employers in the compliance with the financial reporting and disclosure requirements of GASB Statement Nos. 74 and 75.

TRS Statutes establish the Retiree Medical Benefit Fund (which is administered in accordance with the requirements under Section 401(h) of the Internal Revenue Code of 1986) for purposes of paying the Supplemental Medical Insurance benefit. The benefits and assets associated with the Retiree Medical Benefit Fund, which constitute the TRS OPEB Plan, are covered in this report. All of the other benefits administered by TRS are covered in the report prepared for reporting under GASB Statement Nos. 67 and 68.

In accordance with the Contribution and Allocation Policy for Retiree Medical Benefit Fund, adopted by the Board on August 23, 2017, the initial plan fiduciary net position was established such that the total OPEB liability less the OPEB fiduciary net position (i.e., the net OPEB liability) equaled zero.

The net OPEB liability is not an appropriate measure for measuring the sufficiency of plan assets to cover the estimated cost of settling the employer's benefit obligation. The net OPEB liability is not an appropriate measure for assessing the need for or amount of future employer contributions. A calculation of the plan's liability for purposes other than satisfying the requirements of GASB Statement Nos. 74 and 75 may produce significantly different results. This report may be provided to parties other than TRS only in its entirety and only with the permission of TRS.

The total OPEB liability, net OPEB liability, and certain sensitivity information shown in this report are based on an actuarial valuation performed as of June 30, 2022. It is our opinion that the recommended assumptions are internally consistent, reasonable, and comply with the requirements under GASB Statement Nos. 74 and 75.

Based on the available data, the information contained in this report is accurate and fairly represents the actuarial position of the TRS OPEB Plan as of the reporting date. All calculations have been made in conformity with generally accepted actuarial principles and practices as well as the Actuarial Standards of Practice. If you have reason to believe that the information provided in this report is inaccurate, or is in any way incomplete, or if you need further information in order to make an informed decision on the subject matter of this report, please contact the author of the report prior to making such decision.

This report is based upon information, furnished to us by TRS, which include benefit provisions, membership information, and financial data. This information was checked for internal consistency, but it was not audited. GRS is not responsible for the accuracy or completeness of the information provided to us by TRS.

Certain tables included in the Required Supplementary Information should include a 10-year history of information. As provided for in GASB Statement Nos. 74 and 75, this historical information is only presented for the years in which the information was measured in conformity with the requirements of GASB Statement Nos. 74 and 75. The historical information in this report will begin with the information presented for the TRS fiscal year ending June 30, 2017.

Paragraph 68 of GASB Statement No. 75 indicates that contributions to the OPEB plan subsequent to the measurement date of the net OPEB liability and prior to the end of the employer's reporting period should be reported by the employer as a deferred outflow of resources related to OPEB. The information contained in this report does not incorporate any contributions reported to TRS subsequent to June 30, 2022.

This report complements the actuarial valuation as of June 30, 2022, provided for plan funding purposes, which was also provided to TRS and should be considered together as a complete report for the plan year ending June 30, 2022. Please see the actuarial valuation report as of June 30, 2022 for additional discussion of the actuarial valuation, including the nature of actuarial calculations and more information related to participant data, economic and demographic assumptions, and benefit provisions.



To the best of our knowledge, this report is complete and accurate and is in accordance with generally recognized actuarial practices and methods. Mr. Falls and Mr. Detweiler are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein.

Respectfully submitted,
Gabriel, Roeder, Smith & Company



R. Ryan Falls, FSA, MAAA, EA
Senior Consultant



Bill Detweiler, ASA, EA, FCA, MAAA
Consultant

Summary of Population Statistics

The total OPEB liability described in this report is based on the membership of the TRS OPEB Plan as of June 30, 2022:

| | |
|--|---------------|
| Inactive Plan Members or Beneficiaries Currently Eligible to Receive Benefits* | 60,793 |
| Inactive Plan Members Entitled to But Not Yet Receiving Benefits | 5,685 |
| Active Plan Members | <u>99,844</u> |
| Total Plan Members | 166,322 |

* Service retirements, disability retirements, and beneficiaries

Measurement of the Net OPEB Liability

The net OPEB liability is measured as the total OPEB liability, less the amount of the plan's fiduciary net position. In actuarial terms, this is analogous to the accrued liability less the market value of assets (not the smoothed actuarial value of assets that is often encountered in actuarial valuations based on the Board's adopted assumptions and methods).

A single discount rate of 7.00% was used to measure the total OPEB liability as of both June 30, 2021 and June 30, 2022. This single discount rate was based on an expected rate of return on OPEB plan investments for plan years ending June 30, 2021 and June 30, 2022. Based on the stated assumptions and the projection of cash flows, the OPEB plan's fiduciary net position and future contributions were projected to be available to finance all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on OPEB plan investments was applied to all periods of projected benefit payments to determine the total OPEB liability.

The projection of cash flows used to determine this single discount rate assumed that contributions will be made based on the current funding policy as documented in the Contribution and Allocation Policy for Retiree Medical Benefit Fund.

Sensitivity of the Net OPEB Liability to the Single Discount Rate Assumption

Below is a table providing the sensitivity of the net OPEB liability to changes in the discount rate as of June 30, 2022. In particular, the table presents the plan's net OPEB liability, if it were calculated using a single discount rate that is one-percentage-point lower or one-percentage-point higher than the single discount rate:

| Current Single Discount | | |
|-------------------------|-----------------|-----------------|
| 1% Decrease | Rate Assumption | 1% Increase |
| 6.00% | 7.00% | 8.00% |
| \$ 1,822,426 | \$ (43,741,584) | \$ (82,324,426) |

The benefits paid by the TRS OPEB Plan are not impacted by healthcare cost trend rates. As a result, changes in the healthcare cost trend rate assumption will have no impact on the net OPEB liability.



Statement of Changes in Fiduciary Net Position as of June 30, 2022

| Fiscal Year | 2022 |
|--|------------------------|
| Additions | |
| Contributions | |
| Member contributions, including state credit | \$ 0 |
| Grant matching funds | 0 |
| State contribution | 0 |
| Employer/district contributions | 0 |
| Total Contributions | \$ 0 |
| Net investment earnings | |
| Investment income | \$ (49,329,282) |
| Investment expenses | (1,522,325) |
| Net Investment Income | \$ (50,851,607) |
| Total Additions | \$ (50,851,607) |
| Deductions | |
| Benefit Payments | \$ 34,556,094 |
| Refunds | 0 |
| Administrative Expense | 0 |
| Other | 0 |
| Total Deductions | \$ 34,556,094 |
| Net Increase in Net Position | \$ (85,407,701) |
| Net Position Restricted for OPEB | |
| Beginning of Year | \$ 553,278,716 |
| End of Year | \$ 467,871,015 |

This reconciliation only includes the items needed to reconcile the changes in Net OPEB Liability during the fiscal year. The Reconciliation of Fiduciary Net Position required by GASB may require additional detail regarding the changes throughout the year.



SCHEDULES OF REQUIRED SUPPLEMENTARY INFORMATION

Schedule of Changes in the Employers' Net OPEB Liability and Related Ratios

| Fiscal year ending June 30, | 2022 | 2021 | 2020 | 2019 | 2018 |
|--|------------------------|-------------------------|-----------------------|------------------------|------------------------|
| Total OPEB liability | | | | | |
| Service cost | \$ 5,975,764 | \$ 6,485,892 | \$ 6,219,278 | \$ 6,160,629 | \$ 6,431,010 |
| Interest on the total OPEB liability | 28,813,245 | 29,144,139 | 29,667,636 | 30,349,537 | 31,012,327 |
| Changes of benefit terms | 0 | 0 | 0 | 0 | 0 |
| Difference between expected and actual experience | (2,011,428) | (5,244,071) | (5,384,475) | (9,944,903) | (9,813,028) |
| Changes of assumptions | 0 | 0 | 25,556,639 | 0 | 0 |
| Benefit payments, including refunds of employee contributions | (34,556,094) | (35,159,837) | (35,672,198) | (35,701,014) | (36,963,620) |
| Net change in total OPEB liability | (1,778,513) | (4,773,877) | 20,386,880 | (9,135,751) | (9,333,311) |
| Total OPEB liability - beginning | 425,907,944 | 430,681,821 | 410,294,941 | 419,430,692 | 428,764,003 |
| Total OPEB liability - ending (a) | \$ 424,129,431 | \$ 425,907,944 | \$ 430,681,821 | \$ 410,294,941 | \$ 419,430,692 |
| Plan fiduciary net position | | | | | |
| Employer contributions | \$ 0 | \$ 6,087,850 | \$ 914,797 | \$ 877,762 | \$ 2,912,563 |
| Employee contributions | 0 | 0 | 0 | 0 | 0 |
| OPEB plan net investment income | (50,851,607) | 141,791,999 | 3,222,561 | 22,898,575 | 44,760,425 |
| Benefit payments, including refunds of employee contributions | (34,556,094) | (35,159,837) | (35,672,198) | (35,701,014) | (36,963,620) |
| OPEB plan administrative expense | 0 | (29,789) | (4,165) | (3,987) | (11,427) |
| Other | 0 | 0 | 0 | 0 | 0 |
| Net change in plan fiduciary net position | (85,407,701) | 112,690,223 | (31,539,005) | (11,928,664) | 10,697,941 |
| Plan fiduciary net position - beginning | 553,278,716 | 440,588,493 | 472,127,498 | 484,056,162 | 473,358,221 |
| Plan fiduciary net position - ending (b) | \$ 467,871,015 | \$ 553,278,716 | \$ 440,588,493 | \$ 472,127,498 | \$ 484,056,162 |
| Net OPEB liability - ending (a) - (b) | \$ (43,741,584) | \$ (127,370,772) | \$ (9,906,672) | \$ (61,832,557) | \$ (64,625,470) |
| Plan fiduciary net position as a percentage of total OPEB liability | 110.31 % | 129.91 % | 102.30 % | 115.07 % | 115.41 % |
| Covered-employee payroll | \$ 5,015,138,698 | \$ 4,822,734,551 | \$ 4,739,701,022 | \$ 4,473,511,671 | \$ 4,149,557,077 |
| Net OPEB liability as a percentage of covered-employee payroll | (0.87)% | (2.64)% | (0.21)% | (1.38)% | (1.56)% |

Notes to Schedule:

-- The covered employee payroll is an estimate of the actual payroll, imputed from individual employer contributions to the pension plan.



SCHEDULES OF REQUIRED SUPPLEMENTARY INFORMATION

Schedule of Changes in the Employers' Net OPEB Liability and Related Ratios(continued)

| Fiscal year ending June 30, | 2017 | 2016 | 2015 | 2014 | 2013 |
|--|-------------------------|------|------|------|------|
| Total OPEB liability | | | | | |
| Service cost | \$ 6,647,749 | | | | |
| Interest on the total OPEB liability | 31,728,895 | | | | |
| Changes of benefit terms | 0 | | | | |
| Difference between expected and actual experience | (14,186,133) | | | | |
| Changes of assumptions | 0 | | | | |
| Benefit payments, including refunds of employee contributions | (30,309,127) | | | | |
| Net change in total OPEB liability | (6,118,616) | | | | |
| Total OPEB liability - beginning | 434,882,619 | | | | |
| Total OPEB liability - ending (a) | \$ 428,764,003 | | | | |
| Plan fiduciary net position | | | | | |
| Employer contributions | \$ 6,513,158 | | | | |
| Employee contributions | 0 | | | | |
| OPEB plan net investment income | 62,298,028 | | | | |
| Benefit payments, including refunds of employee contributions | (30,309,127) | | | | |
| OPEB plan administrative expense | (26,457) | | | | |
| Other | 0 | | | | |
| Net change in plan fiduciary net position | 38,475,602 | | | | |
| Plan fiduciary net position - beginning | 434,882,619 | | | | |
| Plan fiduciary net position - ending (b) | \$ 473,358,221 | | | | |
| Net OPEB liability - ending (a) - (b) | \$ (44,594,218) | | | | |
| Plan fiduciary net position as a percentage of total OPEB liability | 110.40 % | | | | |
| Covered-employee payroll | \$ 4,070,723,673 | | | | |
| Net OPEB liability as a percentage of covered-employee payroll | (1.10)% | | | | |

Notes to Schedule:

-- The covered employee payroll is an estimate of the actual payroll, imputed from individual employer contributions to the pension plan.



SCHEDULES OF REQUIRED SUPPLEMENTARY INFORMATION

Schedule of Employer Contributions

| FY Ending June 30, | Actuarially Determined Contribution | Actual Contribution | Contribution Deficiency (Excess) | Covered Payroll | Actual Contribution as a % of Covered Payroll |
|-----------------------|---|------------------------|--|--------------------|---|
| 2017 | \$ 6,513,158 | \$ 6,513,158 | \$ 0 | \$ 4,070,723,673 | 0.16 % |
| 2018 | 2,912,563 | 2,912,563 | 0 | 4,149,557,077 | 0.07 % |
| 2019 | 877,762 | 877,762 | 0 | 4,473,511,671 | 0.02 % |
| 2020 | 914,797 | 914,797 | 0 | 4,739,701,022 | 0.02 % |
| 2021 | 6,087,850 | 6,087,850 | 0 | 4,822,734,551 | 0.13 % |
| 2022 | 0 | 0 | 0 | 5,015,138,698 | 0.00 % |

Notes to Schedule of Contributions

Valuation Date: June 30, 2022

Notes The ADEC is the amount needed to fund the normal cost, the anticipated administrative expenses, and a payment towards eliminating the Unfunded Actuarial Accrued Liability (UAAL). The payment towards eliminating the UAAL is based on an closed period of twenty (20) years calculated as a level percentage of future payroll with the initial period beginning on July 1, 2016.

Methods and Assumptions Used to Determine Contribution Rates:

| | |
|-------------------------------|--|
| Actuarial Cost Method | Entry Age Normal |
| Amortization Method | Level Percentage of Payroll |
| Remaining Amortization Period | 20 years beginning on July 1, 2016 |
| Asset Valuation Method | Market |
| Inflation | 2.25% |
| Salary Increases | Composed of 2.25% inflation, plus 0.75% productivity increase rate, plus step-rate promotional increases for members with less than 25 years of service. |
| Investment Rate of Return | 7.00% |
| Retirement Age | Experience-based table of rates based on age, service, and gender. Adopted by the Board in July 2020 in conjunction with the five year experience study for the period ending June 30, 2019. |
| Mortality | 2020 GRS Southwest Region Teacher Mortality Table for males and females. Generational mortality improvements in accordance with the Ultimate MP scales are projected from the year 2020. |
| Health Care Trend Rates | Due to the nature of the benefit, health care trend rates are not applicable to the calculation of contribution rates. |
| Expenses | Administrative expenses are explicitly included in the ADEC. Investment expenses are paid through investment returns. |



GOVERNMENTAL EMPLOYER FINANCIAL STATEMENTS
OPEB Expense for TRS Fiscal Year Ending June 30, 2022
To be used for Governmental Employer Reporting for Fiscal Years Ending
Between June 30, 2022 and June 30, 2023

| | |
|--|-----------------------|
| 1. Service Cost | \$ 5,975,764 |
| 2. Interest on the Total OPEB Liability | 28,813,245 |
| 3. Current-Period Benefit Changes | 0 |
| 4. Employee Contributions | 0 |
| 5. Projected Earnings on Plan Investments | (37,520,047) |
| 6. OPEB Plan Administrative Expense | 0 |
| 7. Other Changes in Plan Fiduciary Net Position | 0 |
| 8. Recognition of Outflow (Inflow) of Resources due to Liabilities | (3,269,432) |
| 9. Recognition of Outflow (Inflow) of Resources due to Assets | 1,769,892 |
| 10. Total OPEB Expense | \$ (4,230,578) |

Recognition of Deferred Outflows and Inflows of Resources

According to paragraph 86 of GASB No. 75, *differences between expected and actual experience and changes in assumptions* are recognized in OPEB expense 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 employees and inactive employees) determined as of the beginning of the measurement period.

At the beginning of the 2022 fiscal year, the expected remaining service lives of all contributing members was 963,945 years for TRS. Additionally, the TRS OPEB Plan membership (active employees and inactive employees) was 155,445. As a result, the average of the expected remaining service lives for purposes of recognizing the applicable deferred outflows and inflows of resources established in the 2022 fiscal year is 6.2 years.

Additionally, *differences between projected and actual earnings on OPEB plan investments* should be recognized in OPEB expense using a systematic and rational method over a closed five-year period.

For this purpose, the deferred outflows and inflows of resources are recognized in the OPEB expense as a level dollar amount over the closed period identified above.

GOVERNMENTAL EMPLOYER FINANCIAL STATEMENTS

Statement of Outflows and Inflows Arising from Current and Prior Reporting Periods For Plan Year Ending June 30, 2022

To be used for Governmental Employer Reporting for Fiscal Years Ending Between June 30, 2022 and June 30, 2023*

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

| | Outflows of Resources | Inflows of Resources | Net Outflows of Resources |
|--|--------------------------|-------------------------|------------------------------|
| 1. Differences between expected and actual experience | \$ 0 | \$ 2,011,428 | \$ (2,011,428) |
| 2. Assumption Changes | 0 | 0 | 0 |
| 3. Net Difference between projected and actual earnings on OPEB plan investments | 88,371,654 | 0 | 88,371,654 |
| 4. Total | \$ 88,371,654 | \$ 2,011,428 | \$ 86,360,226 |

B. Outflows and Inflows of Resources by Source to be recognized in Current OPEB Expense

| | Outflows of Resources | Inflows of Resources | Net Outflows of Resources |
|--|--------------------------|-------------------------|------------------------------|
| 1. Differences between expected and actual experience | \$ 0 | \$ 7,391,471 | \$ (7,391,471) |
| 2. Assumption Changes | 4,122,039 | 0 | 4,122,039 |
| 3. Net Difference between projected and actual earnings on OPEB plan investments | 26,270,944 | 24,501,052 | 1,769,892 |
| 4. Total | \$ 30,392,983 | \$ 31,892,523 | \$ (1,499,540) |

C. Deferred Outflows and Deferred Inflows of Resources by Source to be recognized in Future OPEB Expense

| | Deferred Outflows of Resources | Deferred Inflows of Resources | Net Outflows of Resources |
|--|-----------------------------------|----------------------------------|------------------------------|
| 1. Differences between expected and actual experience | \$ 0 | \$ 14,560,735 | \$ (14,560,735) |
| 2. Assumption Changes | 13,190,522 | 0 | 13,190,522 |
| 3. Net Difference between projected and actual earnings on OPEB plan investments | 85,470,619 | 67,181,619 | 18,289,000 |
| 4. Total | \$ 98,661,141 | \$ 81,742,354 | \$ 16,918,787 |

D. Deferred Outflows and Deferred Inflows of Resources by Year to be recognized in Future OPEB Expenses

| Period | Outflows of Resources | Inflows of Resources | Net Outflows of Resources |
|-----------------|--------------------------|-------------------------|------------------------------|
| Fiscal Year + 1 | \$ 30,392,979 | \$ 28,455,390 | \$ 1,937,589 |
| Fiscal Year + 2 | 27,973,057 | 26,478,421 | 1,494,636 |
| Fiscal Year + 3 | 21,796,370 | 24,906,138 | (3,109,768) |
| Fiscal Year + 4 | 18,498,735 | 1,343,933 | 17,154,802 |
| Fiscal Year + 5 | 0 | 493,587 | (493,587) |
| Thereafter | 0 | 64,884 | (64,884) |
| Total | \$ 98,661,141 | \$ 81,742,354 | \$ 16,918,787 |

* Amounts shown are based on the collective deferred inflows and outflows for the plan. Each individual employer may have additional deferred inflows and outflows associated with changes in proportion or differences between employer contributions and proportionate share of contributions.



GOVERNMENTAL EMPLOYER FINANCIAL STATEMENTS

Recognition of Deferred Outflows and Inflows of Resources

For Plan Year Ending June 30, 2022

**To be used for Governmental Employer Reporting for Fiscal Years Ending
Between June 30, 2022 and June 30, 2023**

| Year Established | Initial Amount | Initial Recognition Period | Current Year Recognition | Remaining Recognition | Remaining Recognition Period |
|---|-------------------|----------------------------------|-----------------------------|--------------------------|------------------------------------|
| Deferred Outflow (Inflow) due to Differences Between Expected and Actual Experience on Liabilities | | | | | |
| 2017 | (14,186,133) | 6.4 | (2,216,584) | (886,629) | 0.4 |
| 2018 | (9,813,028) | 6.3 | (1,557,624) | (2,024,908) | 1.3 |
| 2019 | (9,944,903) | 6.3 | (1,578,557) | (3,630,675) | 2.3 |
| 2020 | (5,384,475) | 6.2 | (868,464) | (2,779,083) | 3.2 |
| 2021 | (5,244,071) | 6.2 | (845,818) | (3,552,435) | 4.2 |
| 2022 | (2,011,428) | 6.2 | (324,424) | (1,687,004) | 5.2 |
| Total | | | (7,391,471) | (14,560,735) | |
| Deferred Outflow (Inflow) due to Assumption Changes | | | | | |
| 2017 | 0 | 6.4 | 0 | 0 | 0.4 |
| 2018 | 0 | 6.3 | 0 | 0 | 1.3 |
| 2019 | 0 | 6.3 | 0 | 0 | 2.3 |
| 2020 | 25,556,639 | 6.2 | 4,122,039 | 13,190,522 | 3.2 |
| 2021 | 0 | 6.2 | 0 | 0 | 4.2 |
| 2022 | 0 | 6.2 | 0 | 0 | 5.2 |
| Total | | | 4,122,039 | 13,190,522 | |
| Deferred Outflow (Inflow) due to Differences Between Projected and Actual Earnings on Plan Investments | | | | | |
| 2017 | (30,575,173) | 5.0 | 0 | 0 | 0.0 |
| 2018 | (10,535,902) | 5.0 | (2,107,178) | 0 | 0.0 |
| 2019 | 12,099,616 | 5.0 | 2,419,924 | 2,419,920 | 1.0 |
| 2020 | 30,883,443 | 5.0 | 6,176,689 | 12,353,376 | 2.0 |
| 2021 | (111,969,367) | 5.0 | (22,393,874) | (67,181,619) | 3.0 |
| 2022 | 88,371,654 | 5.0 | 17,674,331 | 70,697,323 | 4.0 |
| Total | | | 1,769,892 | 18,289,000 | |

