



Fiscal Year 2022
GASB 74/75 Report
for the
City of New York
and the
New York City Health Benefits
Program

PREPARED AS OF JUNE 30, 2022

by the
New York City
Office of the Actuary

2022



OFFICE OF THE ACTUARY

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MICHAEL J. SAMET
INTERIM CHIEF ACTUARY

September 9, 2022

Honorable Brad Lander
Comptroller
The City of New York Municipal Building, Room 530
One Centre Street
New York, NY 10007

Re: Other Postemployment Benefits Valuation Report in Accordance with GASB 74 and GASB 75 as of June 30, 2022 (Report)

Dear Comptroller Lander:

This Report presents the results of the Fiscal Year (FY) Ended June 30, 2022, Annual Valuation of the Other Postemployment Benefits (OPEB) provided under the New York City Health Benefits Program (Program).

The June 30, 2021, valuation results are projected forward to the measurement date of June 30, 2022, to form the basis for the FY 2022 (i.e., July 1, 2021 to June 30, 2022) accounting and financial reporting under Governmental Accounting Standards Board (GASB) Statement No. 75 *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions* (GASB75), as amended by GASB Statement No. 85 (GASB85), for the City of New York (City) and certain non-City entities (Component Units).

The projected valuation results also form the basis for the FY 2022 financial reporting under GASB Statement No. 74 *Financial Reporting for Postemployment Benefit Plans Other than Pension Plans* (GASB74), as amended by GASB85, for the New York City Other Postemployment Benefits Plan (OPEB Plan or Plan). Where these results are applicable under both GASB74 and GASB75, the term GASB74/75 is used.

This Report provides the fiduciary net position of the Program for the City and Component Units, the accounting costs to maintain the Program, and the financial statement reporting and disclosure information for the Plan, the City, Component Units, governmental agencies, and other interested parties.

The results shown herein are based upon:

- The Office of the Actuary's (OA) interpretation of GASB74 and GASB75, as amended by GASB85.

- The OA’s understanding of the OPEB provided to eligible retirees and beneficiaries.
- The OA’s understanding of Health Care Reform (HCR) (i.e., the Patient Protection and Affordable Care Act (ACA)) signed into law on March 23, 2010 and the Health Care and Education Reconciliation Act (HCERA) signed into law on March 30, 2010), as well as the Tax Cuts and Jobs Act signed into law on December 22, 2017 and the Further Consolidated Appropriations Act, 2020 signed into law on December 20, 2019.
- Census data used in the June 30, 2021, pension actuarial valuations of the New York City Retirement Systems (NYCRS)¹ to produce the Preliminary Fiscal Year 2023 Employer Contributions and supplemental data provided by the New York City Office of Labor Relations (OLR), the Educational Construction Fund (ECF), and the City University of New York (CUNY) for participants in the Teachers Insurance Annuity Association (CUNY/TIAA). For details, see SECTION VIII – DEMOGRAPHIC INFORMATION.
- Health insurance premium rates and related financial information for FY 2022 provided by OLR, as described in SECTION VII – ACTUARIAL ASSUMPTIONS AND METHODS.
- Welfare Fund contribution rates as of June 30, 2022, and negotiated increases, lump-sum, and retroactive payments made on behalf of retirees to Welfare Funds for FY 2020 to FY 2022, provided by OLR. For details, see SECTION VIII – DEMOGRAPHIC INFORMATION.
- Certain actuarial assumptions used in the pension actuarial valuations of the NYCRS that were proposed to the Boards of the NYCRS during Calendar Year 2021. For details, see SECTION VII – ACTUARIAL ASSUMPTIONS AND METHODS.
- Additional OPEB-specific actuarial assumptions, as described in SECTION VII – ACTUARIAL ASSUMPTIONS AND METHODS.
- Entry Age Normal Cost Method, as described in SECTION VII – ACTUARIAL ASSUMPTIONS AND METHODS.
- Financial information provided by the Office of Management and Budget (OMB) and by the administrative offices of the Component Units.
- Information on the Health Insurance Stabilization Reserve Fund (Stabilization Fund) provided by OLR and OMB.

¹ New York City Employees’ Retirement System (NYCERS)
 New York City Teachers’ Retirement System (TRS)
 New York City Board of Education Retirement System (BERS)
 New York City Police Pension Fund (POLICE)
 New York City Fire Pension Fund (FIRE)

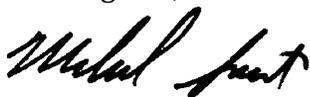
- Standard actuarial models (including but not limited to Entry Age Normal and related parameters) that are widely used in actuarial practice. The models are intended to calculate the liabilities associated with the Plan provisions using data and assumptions as of the measurement date, using actuarial assumptions and methods further described below. Most of this liability and cashflow modeling is currently implemented using ProVal, a ubiquitous actuarial valuation and projection software program developed by Winklevoss Technologies (WinTech). These results are reviewed for accuracy, reasonability, and consistency with prior results, consistent with the requirements of Actuarial Standard of Practice 56. The model is also reviewed extensively when significant changes are made to the software by experts who are familiar with the applicable actuarial methods used therein.
- The OA's consideration of the potential impact of the ongoing COVID-19 pandemic on costs and liabilities of the Plan. The OA made no explicit adjustments to the calculations at this time due to the lack of credible experience data and uncertainty around the long-term ramifications for the Plan.
- The OA's understanding that the planned implementation of a Medicare Advantage (MA) Plan has been delayed indefinitely and therefore is not reflected in this valuation.

This Report does not include liabilities for the New York City Off-Track Betting Corporation (OTB). It is the OA's understanding that, effective May 26, 2011, neither the City nor the Plan has any OPEB obligation for current or future OTB retirees. This Report also excludes liabilities for both the Queens and Brooklyn Public Libraries.

The results contained in this Report are not meant for other purposes. In particular, the analysis in this Report is not to be relied upon by employers, retirees, or their representatives for any decisions regarding benefit design. Use of this Report for any other purpose or by anyone other than the City, the Component Units, or their auditors may not be appropriate and may result in mistaken conclusions due to failure to understand applicable assumptions, methodologies, or inapplicability of the Report for that purpose. This Report should not be provided except in its entirety. No one other than the City, Component Units, or their auditors may make any representations or warranties based on any statements or conclusions contained in this Report without the written consent of the OA.

An Actuarial Certification is included in SECTION V – CERTIFICATION.

Best Regards,



Michael J. Samet, FSA, MAAA
Interim Chief Actuary

MJS/eh

cc: **New York City Office of the Actuary**

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SECTION I - NOTES TO FINANCIAL STATEMENTS

Overview

The OPEB liability information contained in this section of the Report reflects only the City's direct obligations. SECTION III – REQUIRED SUPPLEMENTARY INFORMATION – CITY OF NEW YORK (EXCLUDING COMPONENT UNITS) contains the details of the GASB74/75 obligations and other required information for the City.

The OPEB valuation results presented in this Report show the value of OPEB in effect during each Fiscal Year and do not represent an obligation of the City or the Component Units to continue, modify, or eliminate OPEB in the future.

Component Units: The Component Units which have OPEB obligations included in this Report do not have separately identified OPEB assets as of June 30, 2022, nor June 30, 2021. Since GASB75 is applicable to OPEB not administered through trusts or trust equivalents, GASB75 applies to the OPEB obligations of the Component Units. Please see SECTION IV – REQUIRED SUPPLEMENTARY INFORMATION – COMPONENT UNITS for the GASB75 obligations and other required information for the Component Units.

The City and each of the Component Units are considered single employers for the purpose of recording their OPEB liabilities.

Plan Description

The *New York City Other Postemployment Benefits Plan* is a fiduciary component unit of the City and comprises: (1) the New York City Retiree Health Benefits Trust (NYCRHBT) which is used to receive, hold, and disburse assets accumulated to pay for certain OPEB provided by the City to its retired employees and eligible dependents, and (2) OPEB paid for directly by the City out of its general resources rather than through the NYCRHBT.

The NYCRHBT was established for the exclusive benefit of the City's retired employees and their eligible spouses and dependents, to fund certain OPEB provided in accordance with the City's various collective bargaining agreements and the Administrative Code of the City of New York (ACCNY).

Plan Administration: The New York City Office of Labor Relations administers the Program which includes the New York City Postretirement Benefits Plan, a defined benefit postretirement benefits plan. ACCNY Section 12-126 defines OPEB payable to include Health Insurance, Medicare Part B Premium Reimbursement, and Welfare Fund benefits. Welfare Fund benefits are provided through Welfare Fund arrangements agreed upon, in most cases, through collective bargaining.

Plan Membership: For the FY 2022 OPEB valuation, membership consisted of the following. Comparative values for the FY 2021 OPEB valuation are also shown.

| Membership Status as of Beginning of Fiscal Year (excluding Component Units) | FY 2022 | FY 2021 |
|---|----------------|----------------|
| Active Plan members | 296,690 | 303,918 |
| Inactive Plan members entitled to but not yet receiving benefits | 22,462 | 21,976 |
| Inactive Plan members or beneficiaries currently receiving benefits | <u>246,832</u> | <u>243,978</u> |
| Total | 565,984 | 569,872 |

Eligibility and Benefits: See SECTION VI – SUMMARY OF PLAN PROVISIONS.

Assumptions and Methods: See SECTION VII – ACTUARIAL ASSUMPTIONS AND METHODS.

Contributions: The City contributions to fund the OPEB are currently reimbursing the NYCRHBT on a pay-as-you-go basis with the possibility of additional contributions that are intended to build the fund for purposes of paying future benefits. The City is not required to provide funding for the OPEB Plan beyond the pay-as-you-go amounts for benefits to current retirees and their dependents. During FY 2022, the City contributed approximately \$4.6 billion to the OPEB Plan.

Assets: Assets are valued at market value.

SECTION II – FIDUCIARY NET POSITION includes two tables showing the detailed financial position of the Plan as of June 30, 2022, and June 30, 2021.

- Table II-a sets forth the assets of the Plan.
- Table II-b sets forth the changes in net assets and includes non-trust activity for FY 2022 and FY 2021.

The increase in the Plan’s Fiduciary Net Position was primarily due to the \$1.0 billion increase in Total Assets and \$137 million decrease in Total Liabilities. The increase in Total Assets was mainly due to the \$2.2 billion increase in cash, which was offset by a decrease in cash equivalents. The decrease in Total Liabilities was primarily due to a \$167 million decrease in Citywide health insurance providers payables, and an increase in Medicare Part B payables of \$30 million.

Asset and other financial information reflected in this valuation for the City and the Plan were provided by OMB on August 19, 2022 and checked for reasonability by the OA.

Key Changes Included in This Valuation

The following key changes were included in the FY 2022 OPEB valuation:

- Certain demographic assumptions including health Plan participation elections, dependent coverage elections, participation rates, and the percentage of pre-65 disabled retirees eligible for Medicare were updated to reflect more recent experience. CUNY/TIAA demographic assumptions were set equal to TRS except where otherwise specified.
- The valuation discount rate as of June 30, 2022, was updated to 4.09% for benefits provided by the City and for benefits provided by Component Units. The valuation discount rate as of June 30, 2021, was 2.19% for benefits provided by the City, and 2.18% for Component Units.
- The Stabilization Fund Load was updated from 0.40% as of June 30, 2021 to 0.50% as of June 30, 2022, to reflect more recent experience.

Investments

The Money-Weighted rate of return was 0.10% for the FY ended June 30, 2022, which expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

Net OPEB Liability of the City

The components of the net OPEB liability at June 30, 2022, and June 30, 2021 are as follows:

| (\$'s in millions) | June 30, 2022 | June 30, 2021 |
|---|---------------|---------------|
| Total OPEB Liability | \$ 94,880 | \$ 122,170 |
| Plan Fiduciary Net Position | 5,376 | 4,221 |
| Net OPEB Liability | 89,504 | 117,949 |
| Plan Fiduciary Net Position as a Percentage of the Total OPEB Liability | 5.7% | 3.5% |

The Net OPEB Liability as June 30, 2022, decreased by \$28.4 billion due to the \$27.3 billion decrease in the Total OPEB liability and the \$1.1 billion increase in the Plan's Fiduciary Net Position as described above. The decrease in the Total OPEB Liability as of June 30, 2022 was driven primarily by the 190 basis point increase in the discount rate (2.19% at June 30, 2021 to 4.09% at June 30, 2022) yielding a gain of \$29.4 billion. The additional gains due to experience and certain other assumption changes, produced an overall gain of \$32.8 billion.

Sensitivity of Net OPEB Liability of the City

The table below summarizes the sensitivity of the net OPEB liability of the City at June 30, 2022 and June 30, 2021 to changes in the discount rate and healthcare cost trend rate:

| Net OPEB Liability of the City (\$'s in millions) | June 30, 2022 | June 30, 2021 |
|--|----------------------|----------------------|
| Discount Rate | | |
| 1% Decrease | \$ 103,483 | \$ 138,804 |
| 1% Increase | 78,132 | 101,351 |
| Healthcare Cost Trend Rate | | |
| 1% Decrease | \$ 75,446 | \$ 97,537 |
| 1% Increase | 107,506 | 144,851 |

SECTION II – FIDUCIARY NET POSITION

Table II-a: Statement of Fiduciary Net Position

| | June 30, 2022 ¹ | June 30, 2021 ² |
|---|----------------------------|----------------------------|
| ASSETS | | |
| Cash | | |
| Settled Cash | \$ 3,160,628,206 | \$ 926,472,185 |
| Receivables | | |
| Trust | 242,170 | 270 |
| Medicare Part D | <u>45,057</u> | <u>45,057</u> |
| Total Cash | \$ 3,160,915,433 | \$ 926,517,512 |
| Cash Equivalents | | |
| US Treasury Bills | \$ 2,666,466,500 | \$ 2,658,381,750 |
| Commercial Paper | (669,121,553) | 867,797,521 |
| Short Term Funds | <u>519,222,552</u> | <u>206,335,486</u> |
| Total Cash Equivalents | \$ 2,516,567,499 | \$ 3,732,514,757 |
| Prepaid Benefits / Expenses | \$ <u>67,949</u> | \$ <u>34,265</u> |
| Total Prepaid | \$ 67,949 | \$ 34,265 |
| Total Assets | \$ 5,677,550,881 | \$ 4,659,066,534 |
| LIABILITIES | | |
| Medicare Part B | \$ 250,752,155 | \$ 220,785,488 |
| Benefits Payable | 50,202,132 | 217,675,825 |
| Trustee Fees Payable | 43,750 | 43,750 |
| Audit Fees Payable | <u>54,000</u> | <u>54,000</u> |
| Total Liabilities | \$ 301,052,037 | \$ 438,559,063 |
| FIDUCIARY NET POSITION | | |
| Held in Trust for Benefit Payments | \$ 5,376,498,844 | \$ 4,220,507,471 |

¹ Based on Information Provided by OMB on August 19, 2022.

² Based on Information Provided by OMB on August 11, 2021.

Table II-b: Statement of Changes in Fiduciary Net Position

| | June 30, 2022 ¹ | June 30, 2021 ² |
|--|-----------------------------|-----------------------------|
| ADDITIONS | | |
| Employer Contributions | | |
| Pay-As-You-Go | | |
| Trust | \$ 4,252,472,533 | \$ 3,200,026,870 |
| Non-Trust | 330,563,414 | 399,530,535 |
| Other | <u>0</u> | <u>0</u> |
| Total Contributions | \$ 4,583,035,947 | \$ 3,599,557,405 |
| Earned Income | | |
| Interest Income | \$ 2,368,926 | \$ 11,635,353 |
| Net Realized Gain / (Loss) | <u>15,495</u> | <u>590,106</u> |
| Total Investment Income | \$ 2,384,421 | \$ 12,225,459 |
| Net Unrealized Gain / (Loss) | <u>728,160</u> | <u>(8,424,186)</u> |
| TOTAL ADDITIONS | \$ 4,586,148,528 | \$ 3,603,358,678 |
| DEDUCTIONS | | |
| Benefit Payments | | |
| Trust | \$ 3,099,364,740 | \$ 2,783,580,834 |
| Non-Trust | <u>330,563,414</u> | <u>399,530,535</u> |
| Sub-Total | \$ 3,429,928,154 | \$ 3,183,111,369 |
| Expenses | | |
| Administrative Expenses | \$ 54,000 | \$ 54,000 |
| Legal Fees | 0 | 0 |
| Trustee Fees | <u>175,000</u> | <u>175,000</u> |
| Sub-Total | \$ 229,000 | \$ 229,000 |
| TOTAL DEDUCTIONS | \$ 3,430,157,154 | \$ 3,183,340,369 |
| CHANGE IN FIDUCIARY NET POSITION | \$ 1,155,991,374 | \$ 420,018,309 |
| FIDUCIARY NET POSITION HELD IN TRUST FOR BENEFIT PAYMENTS | | |
| Beginning of Year | \$ 4,220,507,470 | \$ 3,800,489,161 |
| End of Year | \$ 5,376,498,844 | \$ 4,220,507,470 |

¹ Based on Information Provided by OMB on August 19, 2022.

² Based on Information Provided by OMB on August 11, 2021.

**SECTION III - REQUIRED SUPPLEMENTARY INFORMATION -
CITY OF NEW YORK (EXCLUDING COMPONENT UNITS)**

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 74 and No. 75 (GASB 74/75)

City of New York (Excluding Component Units)

**Summary of June 30, 2021 OPEB Data
By System Not Including Component Units ¹**

| | NYCERS | TRS | BERS | POLICE | FIRE | NYCRS TOTAL |
|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 1. Actives | | | | | | |
| a. Number | 102,728 | 119,053 | 26,790 | 35,006 | 10,751 | 294,328 |
| b. Salary | \$8,403,229,153 | \$11,173,543,771 | \$1,348,608,625 | \$3,783,603,966 | \$1,386,952,944 | \$26,095,938,459 |
| c. Average Age | 46.90 | 44.39 | 51.11 | 37.52 | 41.17 | 44.94 |
| d. Average Service | 12.55 | 12.66 | 9.35 | 11.42 | 14.50 | 12.24 |
| e. Average Salary | \$81,801 | \$93,854 | \$50,340 | \$108,084 | \$129,007 | \$88,663 |
| 2. Deferreds (Includes Deferred Retirees, if any) | | | | | | |
| a. Number | 10,901 | 9,816 | 983 | 595 | 62 | 22,357 |
| b. Average Age | 56.17 | 50.91 | 56.55 | 42.24 | 44.31 | 53.47 |
| 3. Retirees | | | | | | |
| a. Total ² | | | | | | |
| i. Number | 76,795 | 82,526 | 17,587 | 51,928 | 16,230 | 245,066 |
| ii. Average Age | 70.70 | 74.18 | 74.44 | 62.69 | 67.44 | 70.23 |
| b. By Benefit ³ | <u>Participant / Spouse</u> |
| i. Pre-Medicare ⁴ | 20,498 / 11,914 | 11,167 / 5,003 | 2,239 / 957 | 32,667 / 22,146 | 6,956 / 6,458 | 73,527 / 46,478 |
| ii. Medicare Eligible ⁴ | 56,297 / 18,411 | 71,359 / 21,612 | 15,348 / 5,073 | 19,261 / 10,991 | 9,274 / 5,164 | 171,539 / 61,251 |
| iii. Welfare Fund ⁴ | 73,716 / NE | 79,517 / NE | 16,515 / NE | 51,333 / NE | 15,470 / NE | 236,551 / NE |
| iv. Medicare Part B ⁵ | 101,871 / 37,757 | 84,031 / 27,294 | 17,622 / 6,039 | 51,928 / 33,137 | 16,230 / 11,622 | 271,682 / 115,849 |
| | TIAA | LODW | | | | GRAND TOTAL |
| 1. Actives | | | | | | |
| a. Number | 2,362 | 0 | | | | 296,690 |
| b. Salary | \$236,520,062 | 0 | | | | \$26,332,458,521 |
| c. Average Age | 51.89 | NA | | | | 45.00 |
| d. Average Service | 15.91 | NA | | | | 12.27 |
| e. Average Salary | \$100,136 | NA | | | | \$88,754 |
| 2. Deferreds (Includes Deferred Retirees, if any) | | | | | | |
| a. Number | 105 ⁶ | 0 | | | | 22,462 |
| b. Average Age | 53.99 | NA | | | | 53.48 |
| 3. Retirees | | | | | | |
| a. Total | | | | | | |
| i. Number | 985 | 781 | | | | 246,832 |
| ii. Average Age | 78.30 | 82.36 | | | | 70.30 |
| b. By Benefit ³ | <u>Participant / Spouse</u> | <u>Participant / Spouse</u> | | | | <u>Participant / Spouse</u> |
| i. Pre-Medicare ⁴ | 21 / 32 | 53 / 0 | | | | 73,601 / 46,510 |
| ii. Medicare Eligible ⁴ | 964 / 395 | 728 / 0 | | | | 173,231 / 61,646 |
| iii. Welfare Fund ⁴ | 985 / NE | NE / NE | | | | 237,536 / NE |
| iv. Medicare Part B ⁵ | 3,525 / 1,588 | 781 / 0 | | | | 275,988 / 117,437 |

¹ City results also include coverage for the following benefits for the following members of each component unit. These headcounts are not included above except for SCA retirees.

| | Health Insurance (SCA) | Welfare Fund (CUNY Senior Colleges (non- pedagogical)) | Medicare Part B (HHC, SCA, WFA, CUNY Senior Colleges) |
|-----------|---------------------------|---|---|
| Actives | 815 | 4,015 | 47,092 |
| Deferreds | 39 | 480 | 4,665 |
| Retirees | 348 | 1,954 | 30,164 |

² Retirees eligible for receipt of Health Insurance, excluding Component Units.

³ Includes Component Unit participants with City-provided benefits.

⁴ Retirees currently eligible for benefit.

⁵ Retirees eligible for benefit currently or in the future.

⁶ Estimate due to lack of data.

NE Not eligible.

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 74 and No. 75 (GASB 74/75)

City of New York (Excluding Component Units)

June 30, 2021 Results of the Actuarial Valuation
Based on a 2.19% Discount Rate

1. Total Present Value of Projected Benefits¹

| | Pre-Medicare | Medicare | Welfare Funds | Part B Premium | Total |
|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|
| a. Active ¹ | \$57,331,536,842 | \$39,172,658,795 | \$17,548,479,450 | \$42,918,507,891 | \$156,971,182,978 |
| b. Deferred ² | 4,608,208,124 | 2,569,836,627 | 1,430,608,696 | 2,892,897,200 | 11,501,550,647 |
| c. Retired | <u>19,103,922,506</u> | <u>16,954,154,610</u> | <u>8,816,653,164</u> | <u>16,098,297,012</u> | <u>60,973,027,292</u> |
| d. TOTAL | \$81,043,667,472 | \$58,696,650,032 | \$27,795,741,310 | \$61,909,702,103 | \$229,445,760,917 |

2. Entry Age Accrued Liability

| | | | | | |
|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|
| a. Active | \$16,644,549,567 | \$12,375,592,258 | \$5,707,393,171 | \$13,199,716,291 | \$47,927,251,287 |
| b. Deferred ² | 4,608,208,124 | 2,569,836,627 | 1,430,608,696 | 2,892,897,200 | 11,501,550,647 |
| c. Retired | <u>19,103,922,506</u> | <u>16,954,154,610</u> | <u>8,816,653,164</u> | <u>16,098,297,012</u> | <u>60,973,027,292</u> |
| d. TOTAL | \$40,356,680,197 | \$31,899,583,495 | \$15,954,655,031 | \$32,190,910,503 | \$120,401,829,226 |

3. Market Value of Assets

\$4,220,507,470

4. Unfunded Accrued Liability (UAL)

\$116,181,321,756

5. Entry Age Normal Cost

\$6,251,281,373

6. Salary of Active Participants³

\$28,973,834,708

7. Normal Cost Percentage

21.576%

[5. / 6.]

¹ City results also include coverage for the following benefits for the following members of each component unit.

| | Health Insurance (SCA) | Welfare Fund (CUNY Senior Colleges (non-pedagogical)) | Medicare Part B (HHC, SCA, WFA, CUNY Senior Colleges) |
|-----------|---------------------------|---|---|
| Actives | 815 | 4,015 | 47,092 |
| Deferreds | 39 | 480 | 4,665 |
| Retirees | 348 | 1,954 | 30,164 |

² Includes Deferred Retirees, if any.

³ Includes all Component Units except NYCHA and ECF.

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 74 and No. 75 (GASB 74/75)

City of New York (Excluding Component Units)

Market Values of Assets

| | Total |
|--|--------------------------------|
| 1. Plan Net Position at June 30, 2020 | \$ 3,800,489,161 |
| 2. Changes for the year: | |
| a. ER Contributions | 3,599,557,405 |
| b. EE Contributions | 0 |
| c. Net Investment Income | 3,801,273 |
| d. Benefit Payments | (3,183,111,369) |
| e. Administrative Expenses | (54,000) |
| f. Other | (175,000) |
| g. Net Changes | <u>\$ 420,018,309</u> |
| 3. Plan Net Position at June 30, 2021 | <u>\$ 4,220,507,470</u> |
| 4. Changes for the year: | |
| a. ER Contributions | 4,583,035,947 |
| b. EE Contributions | 0 |
| c. Net Investment Income | 3,112,581 |
| d. Benefit Payments | (3,429,928,154) |
| e. Administrative Expenses | (54,000) |
| f. Other | (175,000) |
| g. Net Changes | <u>\$ 1,155,991,374</u> |
| 5. Plan Net Position at June 30, 2022 | <u>\$ 5,376,498,844</u> |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 74 and No. 75 (GASB 74/75)

City of New York (Excluding Component Units)

Development of Asset (Gain) / Loss June 30, 2021

| | | Total |
|---|----|---------------|
| 1. Market Value at June 30, 2020 | \$ | 3,800,489,161 |
| 2. Market Value at June 30, 2021 | | 4,220,507,470 |
| 3. Net Investment Income | | 3,801,273 |
| 4. Cash Flow (2. - 1. - 3.) | | 416,217,036 |
| 5. Projected Earnings ¹ (4% * 1. + 1.980% * 4.) | | 160,260,664 |
| 6. (Gain) / Loss (5. - 3.) | | 156,459,391 |
| 7. Recognition Period | | 5 Years |
| 8. Amount Recognized in OPEB Expense (6. / 7.) | | 31,291,878 |
| 9. Deferred (Inflow) / Outflow of Resources (6. - 8.) | \$ | 125,167,513 |

¹ Assumes middle of year payments

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 74 and No. 75 (GASB 74/75)

City of New York (Excluding Component Units)

Development of Asset (Gain) / Loss June 30, 2022

| | | Total |
|---|----|---------------|
| 1. Market Value at June 30, 2021 | \$ | 4,220,507,470 |
| 2. Market Value at June 30, 2022 | | 5,376,498,844 |
| 3. Net Investment Income | | 3,112,581 |
| 4. Cash Flow (2. - 1. - 3.) | | 1,152,878,793 |
| 5. Projected Earnings ¹ (4% * 1. + 1.980% * 4.) | | 191,647,299 |
| 6. (Gain) / Loss (5. - 3.) | | 188,534,718 |
| 7. Recognition Period | | 5 Years |
| 8. Amount Recognized in OPEB Expense (6. / 7.) | | 37,706,944 |
| 9. Deferred (Inflow) / Outflow of Resources (6. - 8.) | \$ | 150,827,774 |

¹ Assumes middle of year payments

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 74 and No. 75 (GASB 74/75)

City of New York (Excluding Component Units)

Roll Forward of Entry Age Actuarial Accrued Liabilities to June 30, 2022

| | Total |
|---|---------------------------------|
| 1. Disclosed Entry Age Accrued Liability (EAAL) at June 30, 2021 ¹ | \$ 122,170,373,878 |
| 2. Entry Age Normal Cost at June 30, 2021 ¹ | 6,251,281,373 |
| 3. Actual Benefit Payments-FY22 | (3,429,928,154) |
| 4. Interest ¹ | 2,775,079,944 |
| 5. (Gain)/Loss due to Experience Change ¹ | (1,807,275,780) |
| 6. (Gain)/Loss due to Demographic Assumption Change ¹ | (1,633,721,847) |
| 7. (Gain)/Loss due to Discount Rate Change | <u>(29,445,525,993)</u> |
| 8. Roll-Forward EAAL at June 30, 2022 ² | <u><u>\$ 94,880,283,421</u></u> |

¹Assumes a 2.19% interest rate

²Assumes a 4.09% interest rate

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 74 and No. 75 (GASB 74/75)

City of New York (Excluding Component Units)

Changes in Net OPEB Liability (NOL) by Source
Balances at June 30, 2021

| | Total OPEB Liability (a) | Plan Fiduciary Net Position (b) | Net OPEB Liability (a) - (b) |
|--|--------------------------------|---------------------------------------|------------------------------------|
| 1. Balances at June 30, 2020 | \$ 113,229,187,302 | \$ 3,800,489,161 | \$ 109,428,698,141 |
| 2. Changes for the Year: | | | |
| a. Service Cost | 5,572,683,539 | 0 | 5,572,683,539 |
| b. Interest | 3,141,518,459 | 0 | 3,141,518,459 |
| c. Differences b/t Expected and Actual Experience | 221,150,044 | 0 | 221,150,044 |
| d. Changes in Assumptions | 3,188,945,903 | 0 | 3,188,945,903 |
| e. Contributions - Employer | 0 | 3,599,557,405 | (3,599,557,405) |
| f. Contributions - Employee | 0 | 0 | 0 |
| g. Net Investment Income | 0 | 3,801,273 | (3,801,273) |
| h. Actual Benefit Payments | (3,183,111,369) | (3,183,111,369) | 0 |
| i. Administrative Expenses | 0 | (54,000) | 54,000 |
| j. Other Changes | 0 | (175,000) | 175,000 |
| k. Net Changes | \$ 8,941,186,576 | \$ 420,018,309 | \$ 8,521,168,267 |
| 3. Balances at June 30, 2021 | \$ 122,170,373,878 | \$ 4,220,507,470 | \$ 117,949,866,408 |
| 4. Sensitivity of the Net OPEB Liability to Changes in the Discount Rate | | | |
| a. 1% Decrease | | | \$ 138,804,133,577 |
| b. 1% Increase | | | \$ 101,351,231,138 |
| 5. Sensitivity of the Net OPEB Liability to Changes in the Healthcare Cost Trend Rate | | | |
| a. 1% Decrease | | | \$ 97,537,380,092 |
| b. 1% Increase | | | \$ 144,850,884,890 |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 74 and No. 75 (GASB 74/75)

City of New York (Excluding Component Units)

Changes in Net OPEB Liability (NOL) by Source
Balances at June 30, 2022

| | Total OPEB Liability (a) | Plan Fiduciary Net Position (b) | Net OPEB Liability (a) - (b) |
|--|--------------------------------|---------------------------------------|------------------------------------|
| 1. Balances at June 30, 2020 | \$ 122,170,373,878 | \$ 4,220,507,470 | \$ 117,949,866,408 |
| 2. Changes for the Year: | | | |
| a. Service Cost | 6,251,281,373 | 0 | 6,251,281,373 |
| b. Interest | 2,775,079,944 | 0 | 2,775,079,944 |
| c. Differences b/t Expected and Actual Experience | (1,807,275,780) | 0 | (1,807,275,780) |
| d. Changes in Assumptions | (31,079,247,840) | 0 | (31,079,247,840) |
| e. Contributions - Employer | 0 | 4,583,035,947 | (4,583,035,947) |
| f. Contributions - Employee | 0 | 0 | 0 |
| g. Net Investment Income | 0 | 3,112,581 | (3,112,581) |
| h. Actual Benefit Payments | (3,429,928,154) | (3,429,928,154) | 0 |
| i. Administrative Expenses | 0 | (54,000) | 54,000 |
| j. Other Changes | 0 | (175,000) | 175,000 |
| k. Net Changes | \$ (27,290,090,457) | \$ 1,155,991,374 | \$ (28,446,081,831) |
| 3. Balances at June 30, 2021 | \$ 94,880,283,421 | \$ 5,376,498,844 | \$ 89,503,784,577 |
| 4. Sensitivity of the Net OPEB Liability to Changes in the Discount Rate | | | |
| a. 1% Decrease | | | \$ 103,482,898,444 |
| b. 1% Increase | | | \$ 78,131,800,225 |
| 5. Sensitivity of the Net OPEB Liability to Changes in the Healthcare Cost Trend Rate | | | |
| a. 1% Decrease | | | \$ 75,446,106,902 |
| b. 1% Increase | | | \$ 107,506,129,686 |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 74 and No. 75 (GASB 74/75)

City of New York (Excluding Component Units)

Schedule of Changes in Net OPEB Liability and Related Ratios

| | <u>2022</u> | <u>2021</u> | <u>2020</u> | <u>2019</u> | <u>2018</u> | <u>2017</u> | <u>2016</u> |
|---|----------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------------------------|
| 1. Total OPEB Liability | | | | | | | |
| a. Service Cost | \$ 6,251,281,373 | \$ 5,572,683,539 | \$ 5,292,309,204 | \$ 5,725,025,094 | \$ 4,860,387,841 | \$ 4,521,008,728 | \$ 5,112,510,498 |
| b. Interest | 2,775,079,944 | 3,141,518,459 | 3,277,919,924 | 3,237,262,217 | 3,131,103,689 | 2,898,446,758 | 2,668,923,050 |
| c. Differences b/t Expected and Actual Experience | (1,807,275,780) | 221,150,044 | (5,819,208,728) | 9,362,492,183 | 2,293,748,135 | 519,255,914 | (120,146,814) |
| d. Changes of Assumptions | (31,079,247,840) | 3,188,945,903 | 2,507,506,383 | (6,277,325,926) | 2,513,081,199 | (10,974,634,867) | 0 |
| e. Benefit Payments | (3,429,928,154) | (3,183,111,369) | (3,014,059,300) | (2,839,210,462) | (2,617,044,303) | (2,424,766,464) | (2,277,515,643) |
| f. Other Changes ¹ | 0 | 0 | (1,457,818,456) | 0 | 0 | 0 | 0 |
| g. Net Changes in Total OPEB Liability | \$ (27,290,090,457) | \$ 8,941,186,576 | \$ 786,649,027 | \$ 9,208,243,106 | \$ 10,181,276,561 | \$ (5,460,689,931) | \$ 5,383,771,091 |
| 2. Total OPEB Liability - Beginning | \$ 122,170,373,878 | \$ 113,229,187,302 | \$ 112,442,538,275 | \$ 103,234,295,169 | \$ 93,053,018,608 | \$ 98,513,708,539 | \$ 93,129,937,448 |
| 3. Total OPEB Liability - Ending | \$ 94,880,283,421 | \$ 122,170,373,878 | \$ 113,229,187,302 | \$ 112,442,538,275 | \$ 103,234,295,169 | \$ 93,053,018,608 | \$ 98,513,708,539 |
| 4. Plan Fiduciary Net Position | | | | | | | |
| a. Contributions - Employer | \$ 4,583,035,947 | \$ 3,599,557,405 | \$ 2,059,052,552 | \$ 2,652,443,121 | \$ 2,681,020,067 | \$ 3,020,942,554 | \$ 2,897,128,941 |
| b. Contributions - Employee | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| c. Net Investment Income | 3,112,581 | 3,801,273 | 76,119,735 | 100,740,410 | 48,093,613 | 21,515,588 | 20,565,435 |
| d. Benefit Payments | (3,429,928,154) | (3,183,111,369) | (3,014,059,300) | (2,839,210,462) | (2,617,044,303) | (2,424,766,464) | (2,277,515,643) |
| e. Administrative Expenses | (54,000) | (54,000) | 0 | (46,110) | (43,105) | (41,100) | (40,000) |
| f. Other Changes | (175,000) | (175,000) | (175,000) | (175,000) | (130,323) | (78,516) | (331,067) |
| g. Net Changes in Plan Fiduciary Net Position | \$ 1,155,991,374 | \$ 420,018,309 | \$ (879,062,013) | \$ (86,248,041) | \$ 111,895,949 | \$ 617,572,062 | \$ 639,807,666 |
| 5. Plan Fiduciary Net Position - Beginning | \$ 4,220,507,470 | \$ 3,800,489,161 | \$ 4,679,551,174 | \$ 4,765,799,215 | \$ 4,653,903,266 | \$ 4,036,331,204 | \$ 3,396,523,538 |
| 6. Plan Fiduciary Net Position - Ending | \$ 5,376,498,844 | \$ 4,220,507,470 | \$ 3,800,489,161 | \$ 4,679,551,174 | \$ 4,765,799,215 | \$ 4,653,903,266 | \$ 4,036,331,204 |
| 7. Net OPEB Liability | \$ 89,503,784,577 | \$ 117,949,866,408 | \$ 109,428,698,141 | \$ 107,762,987,101 | \$ 98,468,495,954 | \$ 88,399,115,342 | \$ 94,477,377,335 |
| 8. Plan Fiduciary Net Position as a Percentage of Total OPEB Liability | 5.7% | 3.5% | 3.4% | 4.2% | 4.6% | 5.0% | 4.1% |
| 9. Covered Employee Payroll² | \$28,973,834,708 | \$29,110,182,528 | \$28,201,101,945 | \$27,679,916,380 | \$26,230,448,259 | \$25,112,110,958 | \$24,204,772,333 |
| 10. Net OPEB Liability as a Percentage of Covered Employee Payroll | 308.9% | 405.2% | 388.0% | 389.3% | 375.4% | 352.0% | 390.3% |

¹Repeal of the Cadillac Tax.

²Includes those Component Units with Medicare Part B, Health Insurance or Welfare Fund coverage provided by the City.

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 74 and No. 75 (GASB 74/75)

City of New York (Excluding Component Units)

Average Future Working Lifetime at June 30, 2021

| <u>Group</u> ¹ | <u># Count</u> | <u>Total Future Working Lifetime at June 30, 2021</u> | <u>Average Future Working Lifetime at June 30, 2021</u> |
|---------------------------|----------------|---|---|
| Active | 343,784 | 4,450,977 | 12.95 |
| Deferred Vested | 27,142 | 0 | 0 |
| Retired | <u>277,007</u> | <u>0</u> | <u>0</u> |
| Total | 647,933 | 4,450,977 | 6.87 |

¹Includes those Component Units with Health Insurance, Welfare Fund, or Medicare Part B coverage provided by the City.

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 74 and No. 75 (GASB 74/75)

City of New York (Excluding Component Units)

**Increase (Decrease) in OPEB Expense Arising from the Recognition of
Differences between Expected and Actual Experience**

| Year | Differences between Expected and Actual Experience | Recognition Period (Years) | | | | | | | | | | | | | | |
|---|---|----------------------------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|------------------|------------------|------------------|---------------|
| | | | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | |
| 2016 | \$ (120,146,814) | 6.81 ¹ | \$ (17,642,704) | \$ (17,642,704) | \$ (17,642,704) | \$ (17,642,704) | \$ (17,642,704) | \$ (17,642,704) | \$ (17,642,704) | \$ (14,290,590) | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| 2017 | 519,255,914 | 6.81 | 0 | 76,249,033 | 76,249,033 | 76,249,033 | 76,249,033 | 76,249,033 | 76,249,033 | 76,249,033 | 61,761,716 | 0 | 0 | 0 | 0 | 0 |
| 2018 | 2,293,748,135 | 6.86 | 0 | 0 | 334,365,617 | 334,365,617 | 334,365,617 | 334,365,617 | 334,365,617 | 334,365,617 | 334,365,617 | 287,554,433 | 0 | 0 | 0 | 0 |
| 2019 | 9,362,492,183 | 7.09 | 0 | 0 | 0 | 1,320,520,759 | 1,320,520,759 | 1,320,520,759 | 1,320,520,759 | 1,320,520,759 | 1,320,520,759 | 1,320,520,759 | 1,320,520,759 | 118,846,870 | 0 | 0 |
| 2020 | (5,819,208,728) | 7.16 | 0 | 0 | 0 | 0 | (812,738,649) | (812,738,649) | (812,738,649) | (812,738,649) | (812,738,649) | (812,738,649) | (812,738,649) | (812,738,649) | (130,038,185) | 0 |
| 2021 | 221,150,044 | 7.00 | 0 | 0 | 0 | 0 | 0 | 31,592,863 | 31,592,863 | 31,592,863 | 31,592,863 | 31,592,863 | 31,592,863 | 31,592,863 | 31,592,866 | 31,592,866 |
| 2022 | (1,807,275,780) | 6.87 | 0 | 0 | 0 | 0 | 0 | 0 | (263,067,799) | (263,067,799) | (263,067,799) | (263,067,799) | (263,067,799) | (263,067,799) | (263,067,799) | (228,868,986) |
| Net increase (decrease) in OPEB Expense | | | \$ (17,642,704) | \$ 58,606,329 | \$ 392,971,946 | \$ 1,713,492,705 | \$ 900,754,056 | \$ 932,346,919 | \$ 672,631,234 | \$ 672,434,507 | \$ 563,861,607 | \$ 276,307,174 | \$ (925,366,715) | \$ (361,513,118) | \$ (228,868,986) | |

¹Represents the Future Working Lifetime as of June 30, 2016 due to the timing of GASB 74/75 implementation. All other years are as of the beginning of the fiscal year.

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 74 and No. 75 (GASB 74/75)

City of New York (Excluding Component Units)

**Increase (Decrease) in OPEB Expense Arising from the Recognition of
Changes in Assumptions**

| Year | Differences Due to Changes in Assumptions | Recognition Period (Years) | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 |
|---|--|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 2017 | \$ (10,974,634,867) | 6.81 | \$ (1,611,546,970) | \$ (1,611,546,970) | \$ (1,611,546,970) | \$ (1,611,546,970) | \$ (1,611,546,970) | \$ (1,611,546,970) | \$ (1,305,353,047) | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| 2018 | 2,513,081,199 | 6.86 | 0 | 366,338,367 | 366,338,367 | 366,338,367 | 366,338,367 | 366,338,367 | 366,338,367 | 315,050,997 | 0 | 0 | 0 | 0 |
| 2019 | (6,277,325,926) | 7.09 | 0 | 0 | (885,377,423) | (885,377,423) | (885,377,423) | (885,377,423) | (885,377,423) | (885,377,423) | (885,377,423) | (79,683,965) | 0 | 0 |
| 2020 | 2,507,506,383 | 7.16 | 0 | 0 | 0 | 350,210,389 | 350,210,389 | 350,210,389 | 350,210,389 | 350,210,389 | 350,210,389 | 350,210,389 | 56,033,660 | 0 |
| 2021 | 3,188,945,903 | 7.00 | 0 | 0 | 0 | 0 | 455,563,700 | 455,563,700 | 455,563,700 | 455,563,700 | 455,563,700 | 455,563,700 | 455,563,703 | 0 |
| 2022 | (31,079,247,840) | 6.87 | 0 | 0 | 0 | 0 | 0 | (4,523,907,983) | (4,523,907,983) | (4,523,907,983) | (4,523,907,983) | (4,523,907,983) | (4,523,907,983) | (3,935,799,942) |
| Net increase (decrease) in OPEB Expense | | | \$ (1,611,546,970) | \$ (1,245,208,603) | \$ (2,130,586,026) | \$ (1,780,375,637) | \$ (1,324,811,937) | \$ (5,848,719,920) | \$ (5,542,525,997) | \$ (4,288,460,320) | \$ (4,603,511,317) | \$ (3,797,817,859) | \$ (4,012,310,620) | \$ (3,935,799,942) |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 74 and No. 75 (GASB 74/75)

City of New York (Excluding Component Units)

**Increase (Decrease) in OPEB Expense Arising from the Recognition of
Differences between Projected and Actual Earnings on OPEB Plan Investments**

| Year | Differences between Projected and Actual Earnings on OPEB Plan Investments | Recognition Period (Years) | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 |
|---|---|---|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|
| 2016 | \$ 127,556,503 | 5 | 25,511,301 | 25,511,301 | 25,511,301 | 25,511,301 | 25,511,299 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2017 | \$ 151,739,578 | 5 | 0 | 30,347,916 | 30,347,916 | 30,347,916 | 30,347,916 | 30,347,914 | 0 | 0 | 0 | 0 | 0 |
| 2018 | \$ 139,325,804 | 5 | 0 | 0 | 27,865,161 | 27,865,161 | 27,865,161 | 27,865,161 | 27,865,160 | 0 | 0 | 0 | 0 |
| 2019 | \$ 86,189,187 | 5 | 0 | 0 | 0 | 17,237,837 | 17,237,837 | 17,237,837 | 17,237,837 | 17,237,839 | 0 | 0 | 0 |
| 2020 | \$ 92,149,713 | 5 | 0 | 0 | 0 | 0 | 18,429,943 | 18,429,943 | 18,429,943 | 18,429,943 | 18,429,941 | 0 | 0 |
| 2021 | \$ 156,459,391 | 5 | 0 | 0 | 0 | 0 | 0 | 31,291,878 | 31,291,878 | 31,291,878 | 31,291,878 | 31,291,879 | 0 |
| 2022 | \$ 188,534,718 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 37,706,944 | 37,706,944 | 37,706,944 | 37,706,944 | 37,706,942 |
| Net increase (decrease) in OPEB Expense | | | <u>\$ 25,511,301</u> | <u>\$ 55,859,217</u> | <u>\$ 83,724,378</u> | <u>\$ 100,962,215</u> | <u>\$ 119,392,156</u> | <u>\$ 125,172,733</u> | <u>\$ 132,531,762</u> | <u>\$ 104,666,604</u> | <u>\$ 87,428,763</u> | <u>\$ 68,998,823</u> | <u>\$ 37,706,942</u> |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 74 and No. 75 (GASB 74/75)

City of New York (Excluding Component Units)

Components of OPEB Expense for the Fiscal Year Ended June 30, 2021

| <u>Component</u> | <u>Amount</u> |
|--|---------------------------------------|
| a. Service Cost | \$ 5,572,683,539 |
| b. Interest on the Total OPEB Liability | 3,141,518,459 |
| c. Differences between Expected and Actual Experience | 932,346,919 |
| d. Changes of Assumptions | (1,324,811,937) |
| e. Employee Contributions | 0 |
| f. Projected Earnings on OPEB Plan Investments | (160,260,664) |
| g. Differences between Projected and Actual Earnings on Plan Investments | 125,172,733 |
| h. OPEB Plan Administrative Expenses | 54,000 |
| i. Other Changes in Fiduciary Net Position | 175,000 |
| j. Other Changes in Total OPEB Liability | <u>0</u> |
| Total OPEB Expense | <u><u>\$ 8,286,878,049</u></u> |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 74 and No. 75 (GASB 74/75)

City of New York (Excluding Component Units)

Components of OPEB Expense for the Fiscal Year Ended June 30, 2022

| <u>Component</u> | <u>Amount</u> |
|--|---------------------------------------|
| a. Service Cost | \$ 6,251,281,373 |
| b. Interest on the Total OPEB Liability | 2,775,079,944 |
| c. Differences between Expected and Actual Experience | 672,631,234 |
| d. Changes of Assumptions | (5,848,719,920) |
| e. Employee Contributions | 0 |
| f. Projected Earnings on OPEB Plan Investments | (191,647,299) |
| g. Differences between Projected and Actual Earnings on Plan Investments | 132,531,762 |
| h. OPEB Plan Administrative Expenses | 54,000 |
| i. Other Changes in Fiduciary Net Position | 175,000 |
| j. Other Changes in Total OPEB Liability | <u>0</u> |
| Total OPEB Expense | <u><u>\$ 3,791,386,094</u></u> |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 74 and No. 75 (GASB 74/75)

City of New York (Excluding Component Units)

OPEB Expense, Deferred Outflows of Resources, Deferred Inflows of Resources

For the Fiscal Year ended June 30, 2022, the City recognized OPEB Expense of \$3,791,386,094.

At June 30, 2022, the City reported total Deferred Outflows of Resources and Deferred Inflows of Resources related to OPEB from the following sources:

| | Deferred Outflows of Resources | Deferred Inflows of Resources |
|--|--------------------------------------|-------------------------------------|
| Differences between Expected and Actual Experience | \$ 4,922,055,231 | \$ 4,925,200,762 |
| Changes of Assumptions | 4,416,083,083 | 30,596,509,138 |
| Net Difference between Projected and Actual Earnings on OPEB Plan Investments | <u>298,801,132</u> | <u>0</u> |
| Total | <u><u>\$9,636,939,446</u></u> | <u><u>\$ 35,521,709,900</u></u> |

Amounts reported as Deferred Outflows of Resources and Deferred Inflows of Resources related to OPEB will be recognized in OPEB Expense as follows:

| Fiscal Year Ended <u>June 30</u> | | <u>Amount</u> |
|--|----|-----------------|
| 2022 | \$ | (5,043,556,924) |
| 2023 | | (4,765,424,886) |
| 2024 | | (3,637,169,950) |
| 2025 | | (4,258,205,320) |
| 2026 | | (4,685,477,632) |
| 2027 | | (4,373,823,738) |
| 2028 | | (4,164,668,928) |

**SECTION IV - REQUIRED SUPPLEMENTARY INFORMATION -
COMPONENT UNITS**

New York City Educational Construction Fund (ECF)

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statement No. 75 (GASB 75)

New York City Educational Construction Fund (ECF)

Summary of June 30, 2021 Data

1. Actives

| | |
|--------------------|-----------|
| a. Number | 3 |
| b. Salary | \$438,586 |
| c. Average Age | 55.71 |
| d. Average Service | 8.83 |
| e. Average Salary | \$146,195 |

2. Deferreds (Includes Deferred Retirees, if any)

| | |
|----------------|-------|
| a. Number | 1 |
| b. Average Age | 49.34 |

3. Retirees

| | |
|------------------------------------|-----------------------------|
| a. Total ¹ | |
| i. Number | 5 |
| ii. Average Age | 78.30 |
| b. By Benefit | <u>Participant / Spouse</u> |
| i. Pre-Medicare ² | 1 / 0 |
| ii. Medicare Eligible ² | 3 / 1 |
| iii. Welfare Fund ² | NR / NR |
| iv. Medicare Part B ³ | 4 / 2 |

¹ Retirees eligible for at least one benefit from ECF.

² Retirees currently eligible for benefit from ECF.

³ Retirees eligible for benefit from ECF currently or in the future.

NR Not responsible (benefit not the responsibility of ECF).

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statement No. 75 (GASB 75)

New York City Educational Construction Fund (ECF)

**June 30, 2021 Results of the Actuarial Valuation
Based on a 2.18% Discount Rate**

1. Total Present Value of Projected Benefits

| | Pre-Medicare | Medicare | Welfare Funds | Part B Premium | Total |
|--------------------------|---------------|----------------|---------------|----------------|----------------|
| a. Active | \$ 156,759 | \$ 793,557 | \$ 0 | \$ 265,657 | \$ 1,215,973 |
| b. Deferred ¹ | 228,408 | 223,808 | 0 | 73,274 | 525,490 |
| c. Retired | <u>64,511</u> | <u>511,841</u> | <u>0</u> | <u>138,940</u> | <u>715,292</u> |
| d. TOTAL | \$ 449,678 | \$ 1,529,206 | \$ 0 | \$ 477,871 | \$ 2,456,755 |

2. Entry Age Accrued Liability

| | | | | | |
|--------------------------|---------------|----------------|----------|----------------|----------------|
| a. Active | \$ 57,934 | \$ 380,082 | \$ 0 | \$ 128,291 | \$ 566,307 |
| b. Deferred ¹ | 228,408 | 223,808 | 0 | 73,274 | 525,490 |
| c. Retired | <u>64,511</u> | <u>511,841</u> | <u>0</u> | <u>138,940</u> | <u>715,292</u> |
| d. TOTAL | \$ 350,853 | \$ 1,115,731 | \$ 0 | \$ 340,505 | \$ 1,807,089 |

| | |
|---|---------------------|
| 3. Market Value of Assets | \$ 0 |
| 4. Unfunded Accrued Liability (UAL) | \$ 1,807,089 |
| 5. Entry Age Normal Cost | \$ 64,120 |
| 6. Salary of Active Participants | \$ 438,586 |
| 7. Normal Cost Percentage [5. / 6.] | 14.620% |

¹ Includes Deferred Retirees, if any.

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Educational Construction Fund (ECF)

Market Values of Assets

| | Total |
|--|--------------|
| 1. Plan Net Position at June 30, 2020 | \$ 0 |
| 2. Changes for the year: | |
| a. ER Contributions | 41,763 |
| b. EE Contributions | 0 |
| c. Net Investment Income | 0 |
| d. Benefit Payments | (41,763) |
| e. Administrative Expenses | 0 |
| f. Other | 0 |
| g. Net Changes | <u>\$ 0</u> |
| 3. Plan Net Position at June 30, 2021 | <u>\$ 0</u> |
| 4. Changes for the year: | |
| a. ER Contributions | 40,716 |
| b. EE Contributions | 0 |
| c. Net Investment Income | 0 |
| d. Benefit Payments | (40,716) |
| e. Administrative Expenses | 0 |
| f. Other | 0 |
| g. Net Changes | <u>\$ 0</u> |
| 5. Plan Net Position at June 30, 2022 | <u>\$ 0</u> |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Educational Construction Fund (ECF)

Roll-Forward of Entry Age Accrued Liabilities to June 30, 2022

| | Total |
|---|----------------------------|
| 1. Disclosed Entry Age Accrued Liability (EAAL) at June 30, 2021 ¹ | \$ 1,802,605 |
| 2. Entry Age Normal Cost at June 30, 2021 ¹ | 64,120 |
| 3. Actual Benefit Payments-FY22 | (40,716) |
| 4. Interest ¹ | 40,253 |
| 5. (Gain)/Loss due to Experience Change ¹ | 4,582 |
| 6. (Gain)/Loss due to Discount Rate Change | <u>(460,195)</u> |
| 7. Roll-Forward EAAL at June 30, 2022 ² | <u><u>\$ 1,410,649</u></u> |

¹Assumes a 2.18% interest rate

²Assumes a 4.09% interest rate

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Educational Construction Fund (ECF)

Changes in Net OPEB Liability (NOL) by Source Balances at June 30, 2021

| | Total OPEB Liability (a) | Plan Fiduciary Net Position (b) | Net OPEB Liability (a) - (b) |
|--|--------------------------------|---------------------------------------|------------------------------------|
| 1. Balances at June 30, 2020 | \$ 2,049,922 | \$ 0 | \$ 2,049,922 |
| 2. Changes for the Year: | | | |
| a. Service Cost | 67,125 | 0 | 67,125 |
| b. Interest | 55,762 | 0 | 55,762 |
| c. Differences b/t Expected and Actual Experience | (36,015) | 0 | (36,015) |
| d. Changes in Assumptions | (292,426) | 0 | (292,426) |
| e. Contributions - Employer | 0 | 41,763 | (41,763) |
| f. Contributions - Employee | 0 | 0 | 0 |
| g. Net Investment Income | 0 | 0 | 0 |
| h. Actual Benefit Payments | (41,763) | (41,763) | 0 |
| i. Administrative Expenses | 0 | 0 | 0 |
| j. Other Changes | 0 | 0 | 0 |
| k. Net Changes | (247,317) | \$ 0 | \$ (247,317) |
| 3. Balances at June 30, 2021 | \$ 1,802,605 | \$ 0 | \$ 1,802,605 |
| 4. Sensitivity of the Net OPEB Liability to Changes in the Discount Rate | | | |
| a. 1% Decrease | | | \$ 2,131,936 |
| b. 1% Increase | | | \$ 1,544,960 |
| 5. Sensitivity of the Net OPEB Liability to Changes in the Healthcare Cost Trend Rate | | | |
| a. 1% Decrease | | | \$ 1,522,908 |
| b. 1% Increase | | | \$ 2,158,991 |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Educational Construction Fund (ECF)

Changes in Net OPEB Liability (NOL) by Source Balances at June 30, 2022

| | Total OPEB Liability (a) | Plan Fiduciary Net Position (b) | Net OPEB Liability (a) - (b) |
|--|--------------------------------|---------------------------------------|------------------------------------|
| 1. Balances at June 30, 2021 | \$ 1,802,605 | \$ 0 | \$ 1,802,605 |
| 2. Changes for the Year: | | | |
| a. Service Cost | 64,120 | 0 | 64,120 |
| b. Interest | 40,253 | 0 | 40,253 |
| c. Differences b/t Expected and Actual Experience | 4,582 | 0 | 4,582 |
| d. Changes in Assumptions | (460,195) | 0 | (460,195) |
| e. Contributions - Employer | 0 | 40,716 | (40,716) |
| f. Contributions - Employee | 0 | 0 | 0 |
| g. Net Investment Income | 0 | 0 | 0 |
| h. Actual Benefit Payments | (40,716) | (40,716) | 0 |
| i. Administrative Expenses | 0 | 0 | 0 |
| j. Other Changes | 0 | 0 | 0 |
| k. Net Changes | (391,956) | \$ 0 | \$ (391,956) |
| 3. Balances at June 30, 2022 | \$ 1,410,649 | \$ 0 | \$ 1,410,649 |
| 4. Sensitivity of the Net OPEB Liability to Changes in the Discount Rate | | | |
| a. 1% Decrease | | | \$ 1,626,510 |
| b. 1% Increase | | | \$ 1,236,810 |
| 5. Sensitivity of the Net OPEB Liability to Changes in the Healthcare Cost Trend Rate | | | |
| a. 1% Decrease | | | \$ 1,217,251 |
| b. 1% Increase | | | \$ 1,650,991 |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Educational Construction Fund (ECF)

Schedule of Changes in Net OPEB Liability and Related Ratios

| | <u>2022</u> | <u>2021</u> | <u>2020</u> | <u>2019</u> | <u>2018</u> | <u>2017</u> | <u>2016</u> |
|---|---------------------|---------------------|---------------------|-----------------------|---------------------|---------------------|---------------------|
| 1. Total OPEB Liability | | | | | | | |
| a. Service Cost | \$ 64,120 | \$ 67,125 | \$ 69,235 | \$ 77,208 | \$ 78,627 | \$ 76,223 | \$ 92,498 |
| b. Interest | 40,253 | 55,762 | 61,223 | 117,136 | 113,500 | 108,370 | 54,890 |
| c. Differences b/t Expected and Actual Experience | 4,582 | (36,015) | (54,387) | (1,824,770) | 37,345 | 2,178,629 | 20,054 |
| d. Changes of Assumptions | (460,195) | (292,426) | (44,437) | (46,326) | 166,200 | (820,838) | 0 |
| e. Benefit Payments | (40,716) | (41,763) | (51,900) | (51,363) | (58,457) | (59,650) | (62,303) |
| f. Other Changes ¹ | 0 | 0 | (80,727) | 0 | 0 | 0 | 0 |
| g. Net Changes in Total OPEB Liability | \$ (391,956) | \$ (247,317) | \$ (100,993) | \$ (1,728,115) | \$ 337,215 | \$ 1,482,734 | \$ 105,139 |
| 2. Total OPEB Liability - Beginning | \$ 1,802,605 | \$ 2,049,922 | \$ 2,150,915 | \$ 3,879,030 | \$ 3,541,815 | \$ 2,059,081 | \$ 1,953,942 |
| 3. Total OPEB Liability - Ending | \$ 1,410,649 | \$ 1,802,605 | \$ 2,049,922 | \$ 2,150,915 | \$ 3,879,030 | \$ 3,541,815 | \$ 2,059,081 |
| 4. Plan Fiduciary Net Position | | | | | | | |
| a. Contributions - Employer | \$ 40,716 | \$ 41,763 | \$ 51,900 | \$ 51,363 | \$ 58,457 | \$ 59,650 | \$ 62,303 |
| b. Contributions - Employee | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| c. Net Investment Income | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| d. Benefit Payments | (40,716) | (41,763) | (51,900) | (51,363) | (58,457) | (59,650) | (62,303) |
| e. Administrative Expenses | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| f. Other Changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| g. Net Changes in Plan Fiduciary Net Position | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| 5. Plan Fiduciary Net Position - Beginning | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| 6. Plan Fiduciary Net Position - Ending | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| 7. Net OPEB Liability | \$ 1,410,649 | \$ 1,802,605 | \$ 2,049,922 | \$ 2,150,915 | \$ 3,879,030 | \$ 3,541,815 | \$ 2,059,081 |
| 8. Plan Fiduciary Net Position as a Percentage of Total OPEB Liability | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| 9. Covered Employee Payroll | \$438,586 | \$406,098 | \$389,416 | \$377,420 | \$370,652 | \$359,856 | \$483,451 |
| 10. Net OPEB Liability as a Percentage of Covered Employee Payroll | 321.6% | 443.9% | 526.4% | 569.9% | 1046.5% | 984.2% | 425.9% |

¹Repeal of the Cadillac Tax

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Educational Construction Fund (ECF)

Average Future Working Lifetime at June 30, 2021

| <u>Group</u> | <u># Count</u> | Total Future Working Lifetime <u>at June 30, 2021</u> | Average Future Working Lifetime <u>at June 30, 2021</u> |
|-----------------|----------------|---|---|
| Active | 3 | 24.71 | 8.24 |
| Deferred Vested | 1 | 0 | 0 |
| Retired | <u>5</u> | <u>0</u> | <u>0</u> |
| Total | 9 | 24.71 | 2.75 |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Educational Construction Fund (ECF)

**Increase (Decrease) in OPEB Expense Arising from the Recognition of
Differences between Expected and Actual Experience**

| Year | Differences between Expected and Actual Experience | Recognition Period (Years) | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|---|---|---|------------------|-----------------------|---------------------|--------------------|-----------------|-----------------|-----------------|
| 2018 | \$ 37,345 | 1.15 | \$ 32,474 | \$ 4,871 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| 2019 | (1,824,770) | 1.11 | 0 | (1,643,937) | (180,833) | 0 | 0 | 0 | 0 |
| 2020 | (54,387) | 1.04 | 0 | 0 | (52,295) | (2,092) | 0 | 0 | 0 |
| 2021 | (36,015) | 1.00 | 0 | 0 | 0 | (36,015) | 0 | 0 | 0 |
| 2022 | 4,582 | 2.75 | 0 | 0 | 0 | 0 | 1,666 | 1,666 | 1,250 |
| Net increase (decrease) in OPEB Expense | | | <u>\$ 32,474</u> | <u>\$ (1,639,066)</u> | <u>\$ (233,128)</u> | <u>\$ (38,107)</u> | <u>\$ 1,666</u> | <u>\$ 1,666</u> | <u>\$ 1,250</u> |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Educational Construction Fund (ECF)

**Increase (Decrease) in OPEB Expense Arising from the Recognition of
Changes in Assumptions**

| Year | Differences due to Changes in Assumptions | Recognition Period (Years) | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|---|--|---|-------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|
| 2018 | \$ 166,200 | 1.15 | \$ 144,522 | \$ 21,678 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| 2019 | \$ (46,326) | 1.11 | 0 | (41,735) | (4,591) | 0 | 0 | 0 | 0 |
| 2020 | \$ (44,437) | 1.04 | 0 | 0 | (42,728) | (1,709) | 0 | 0 | 0 |
| 2021 | \$ (292,426) | 1.00 | 0 | 0 | 0 | (292,426) | 0 | 0 | 0 |
| 2022 | \$ (460,195) | 2.75 | 0 | 0 | 0 | 0 | (167,344) | (167,344) | (125,507) |
| Net increase (decrease) in OPEB Expense | | | <u>\$ 144,522</u> | <u>\$ (20,057)</u> | <u>\$ (47,319)</u> | <u>\$ (294,135)</u> | <u>\$ (167,344)</u> | <u>\$ (167,344)</u> | <u>\$ (125,507)</u> |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Educational Construction Fund (ECF)

Components of OPEB Expense for the Fiscal Year Ended June 30, 2021

| <u>Component</u> | <u>Amount</u> |
|--|-----------------------------------|
| a. Service Cost | \$ 67,125 |
| b. Interest on the Total OPEB Liability | 55,762 |
| c. Differences between Expected and Actual Experience | (38,107) |
| d. Changes of Assumptions | (294,135) |
| e. Employee Contributions | 0 |
| f. Projected Earnings on OPEB Plan Investments | 0 |
| g. Differences between Projected and Actual Earnings on Plan Investments | 0 |
| h. OPEB Plan Administrative Expenses | 0 |
| i. Other Changes in Fiduciary Net Position | 0 |
| j. Other Changes in Total OPEB Liability | 0 |
| | <hr/> |
| Total OPEB Expense | <u><u>\$ (209,355)</u></u> |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Educational Construction Fund (ECF)

Components of OPEB Expense for the Fiscal Year Ended June 30, 2022

| <u>Component</u> | <u>Amount</u> |
|--|----------------------------------|
| a. Service Cost | \$ 64,120 |
| b. Interest on the Total OPEB Liability | 40,253 |
| c. Differences between Expected and Actual Experience | 1,666 |
| d. Changes of Assumptions | (167,344) |
| e. Employee Contributions | 0 |
| f. Projected Earnings on OPEB Plan Investments | 0 |
| g. Differences between Projected and Actual Earnings on Plan Investments | 0 |
| h. OPEB Plan Administrative Expenses | 0 |
| i. Other Changes in Fiduciary Net Position | 0 |
| j. Other Changes in Total OPEB Liability | 0 |
| | <hr/> |
| Total OPEB Expense | <u><u>\$ (61,305)</u></u> |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Educational Construction Fund (ECF)

OPEB Expense, Deferred Outflows of Resources, Deferred Inflows of Resources

| | <u>Fiscal Year Ending June 30, 2018</u> | | <u>Fiscal Year Ending June 30, 2019</u> | | <u>Fiscal Year Ending June 30, 2020</u> | | <u>Fiscal Year Ending June 30, 2021</u> | | <u>Fiscal Year Ending June 30, 2022</u> | |
|--|---|--------------------|---|--------------------------|---|------------------------|---|--------------------|---|--------------------------|
| Recognized OPEB Expense | \$369,123 | | (\$1,464,779) | | (\$230,716) | | (\$209,355) | | (\$61,305) | |
| Deferred Resources | Outflows | Inflows | Outflows | Inflows | Outflows | Inflows | Outflows | Inflows | Outflows | Inflows |
| Differences between Expected and Actual Experience | \$ 4,871 | \$ 0 | \$ 0 | \$ 180,833 | \$ 0 | \$ 2,092 | \$ 0 | \$ 0 | \$ 2,916 | \$ 0 |
| Changes of Assumptions | <u>21,678</u> | <u>0</u> | <u>0</u> | <u>4,591</u> | <u>0</u> | <u>1,709</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>292,851</u> |
| Total | <u>\$ 26,549</u> | <u>\$ 0</u> | <u>\$ 0</u> | <u>\$ 185,424</u> | <u>\$ 0</u> | <u>\$ 3,801</u> | <u>\$ 0</u> | <u>\$ 0</u> | <u>\$ 2,916</u> | <u>\$ 292,851</u> |

Amounts reported as Deferred Outflows of Resources and Deferred Inflows of Resources related to OPEB will be recognized in OPEB Expense as follows:

| Fiscal Year Ended <u>June 30</u> | | | | | | |
|----------------------------------|-----------|--|---------------|--|------------|-------------|
| 2018 | \$176,996 | | | | | |
| 2019 | 26,549 | | | | | |
| 2020 | | | (\$1,685,672) | | | |
| 2021 | | | (185,424) | | (\$95,023) | |
| 2022 | | | | | (3,801) | |
| 2023 | | | | | | (\$328,441) |
| 2024 | | | | | | |
| | | | | | | (\$165,678) |
| | | | | | | (165,678) |
| | | | | | | (124,257) |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Educational Construction Fund (ECF)

OPEB Expense, Deferred Outflows of Resources, Deferred Inflows of Resources

For the Fiscal Year ended June 30, 2022, the ECF recognized OPEB Expense of (\$61,305).

At June 30, 2022, ECF reported total Deferred Outflows of Resources and Deferred Inflows of Resources related to OPEB from the following sources:

| | Deferred Outflows of Resources | Deferred Inflows of Resources |
|--|---|--|
| Differences between Expected and Actual Experience | \$ 2,916 | \$ 0 |
| Changes of Assumptions | <u>0</u> | <u>292,851</u> |
| Total | <u><u>\$ 2,916</u></u> | <u><u>\$ 292,851</u></u> |

Amounts reported as Deferred Outflows of Resources and Deferred Inflows of Resources related to OPEB will be recognized in OPEB Expense as follows:

| Fiscal Year Ended <u>June 30</u> | <u>Amount</u> |
|--|---------------|
| 2022 | \$ (165,678) |
| 2023 | (165,678) |
| 2024 | (124,257) |

New York City Health and Hospitals Corporation (HHC)

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Health and Hospitals Corporation (HHC)

Summary of June 30, 2021 OPEB Data

| | NYCERS | TRS | BERS | TOTAL |
|--|------------------|-------|--------------|-----------------------------|
| 1. Actives | | | | |
| a. Number | 31,466 | 0 | 17 | 31,483 |
| b. Salary | \$ 2,547,122,121 | NA | \$ 1,632,165 | \$ 2,548,754,286 |
| c. Average Age | 49.02 | NA | 52.76 | 49.02 |
| d. Average Service | 9.92 | NA | 16.90 | 9.92 |
| e. Average Salary | \$ 80,948 | NA | \$ 96,010 | \$ 80,957 |
| 2. Deferreds (Includes Deferred Retirees, if any) | | | | |
| a. Number | 3,655 | 1 | 1 | 3,657 |
| b. Average Age | 55.73 | 39.00 | 59.00 | 55.73 |
| 3. Retirees | | | | |
| a. Total ¹ | | | | |
| i. Number | 23,679 | 5 | 3 | 23,687 |
| ii. Average Age | 73.65 | 74.89 | 75.67 | 73.65 |
| b. By Benefit | | | | <u>Participant / Spouse</u> |
| i. Pre-Medicare ² | | | | 3,577 / 1,809 |
| ii. Medicare Eligible ² | | | | 20,110 / 5,255 |
| iii. Welfare Fund ² | | | | 21,554 / NE |
| iv. Medicare Part B ³ | | | | NR / NR |

¹ Retirees eligible for at least one benefit from HHC.

² Retirees currently eligible for benefit from HHC.

³ Retirees eligible for benefit from HHC currently or in the future.

NR Not responsible (benefit not the responsibility of HHC).

NE Not eligible.

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Health and Hospitals Corporation (HHC)

**June 30, 2021 Results of the Actuarial Valuation
Based on a 2.18% Discount Rate**

1. Total Present Value of Projected Benefits

| | Pre-Medicare | Medicare | Welfare Funds | Part B Premium | Total |
|--------------------------|-------------------------|-------------------------|-------------------------|----------------|-------------------------|
| a. Active | \$ 2,232,609,548 | \$ 3,035,403,782 | \$ 1,378,449,578 | \$ 0 | \$ 6,646,462,908 |
| b. Deferred ¹ | 490,805,197 | 347,946,472 | 189,240,845 | 0 | 1,027,992,514 |
| c. Retired | <u>376,957,138</u> | <u>1,259,072,768</u> | <u>664,745,575</u> | <u>0</u> | <u>2,300,775,481</u> |
| d. TOTAL | \$ 3,100,371,883 | \$ 4,642,423,022 | \$ 2,232,435,998 | \$ 0 | \$ 9,975,230,903 |

2. Entry Age Accrued Liability

| | | | | | |
|--------------------------|-------------------------|-------------------------|-------------------------|-------------|-------------------------|
| a. Active | \$ 442,027,619 | \$ 916,412,195 | \$ 423,511,519 | \$ 0 | \$ 1,781,951,333 |
| b. Deferred ¹ | 490,805,197 | 347,946,472 | 189,240,845 | 0 | 1,027,992,514 |
| c. Retired | <u>376,957,138</u> | <u>1,259,072,768</u> | <u>664,745,575</u> | <u>0</u> | <u>2,300,775,481</u> |
| d. TOTAL | \$ 1,309,789,954 | \$ 2,523,431,435 | \$ 1,277,497,939 | \$ 0 | \$ 5,110,719,328 |

3. Market Value of Assets

\$ 0

4. Unfunded Accrued Liability (UAL)

\$ 5,110,719,328

5. Entry Age Normal Cost

\$ 303,476,807

6. Salary of Active Participants

\$ 2,548,754,286

7. Normal Cost Percentage

11.907%

[5. / 6.]

¹ Includes Deferred Retirees, if any.

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Health and Hospitals Corporation (HHC)

Market Values of Assets

| | Total |
|--|---------------|
| 1. Plan Net Position at June 30, 2020 | \$ 0 |
| 2. Changes for the year: | |
| a. ER Contributions | 116,816,521 |
| b. EE Contributions | 0 |
| c. Net Investment Income | 0 |
| d. Benefit Payments | (116,816,521) |
| e. Administrative Expenses | 0 |
| f. Other | 0 |
| g. Net Changes | <u>0</u> |
| | \$ 0 |
| 3. Plan Net Position at June 30, 2021 | <u>\$ 0</u> |
| 4. Changes for the year: | |
| a. ER Contributions | 267,369,727 |
| b. EE Contributions | 0 |
| c. Net Investment Income | 0 |
| d. Benefit Payments | (267,369,727) |
| e. Administrative Expenses | 0 |
| f. Other | 0 |
| g. Net Changes | <u>0</u> |
| | \$ 0 |
| 5. Plan Net Position at June 30, 2022 | <u>\$ 0</u> |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Health and Hospitals Corporation (HHC)

Roll-Forward of Entry Age Accrued Liabilities to June 30, 2022

| | Total |
|---|--------------------------------|
| 1. Disclosed Entry Age Accrued Liability (EAAL) at June 30, 2021 ¹ | \$ 5,297,663,231 |
| 2. Entry Age Normal Cost at June 30, 2021 ¹ | 303,476,807 |
| 3. Actual Benefit Payments-FY22 | (267,369,727) |
| 4. Interest ¹ | 119,206,235 |
| 5. (Gain)/Loss due to Experience Change ¹ | (191,019,280) |
| 6. (Gain)/Loss due to Demographic Assumption Change ¹ | 56,064,214 |
| 7. (Gain)/Loss due to Discount Rate Change | <u>(1,102,021,357)</u> |
| 8. Roll-Forward EAAL at June 30, 2022 ² | <u><u>\$ 4,216,000,123</u></u> |

¹Assumes a 2.18% interest rate

²Assumes a 4.09% interest rate

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Health and Hospitals Corporation (HHC)

Changes in Net OPEB Liability (NOL) by Source Balances at June 30, 2021

| | Total OPEB Liability (a) | Plan Fiduciary Net Position (b) | Net OPEB Liability (a) - (b) |
|--|--------------------------------|---------------------------------------|------------------------------------|
| 1. Balances at June 30, 2020 | \$5,359,523,893 | \$ 0 | \$ 5,359,523,893 |
| 2. Changes for the Year: | | | |
| a. Service Cost | 279,634,887 | 0 | 279,634,887 |
| b. Interest | 148,458,160 | 0 | 148,458,160 |
| c. Differences b/t Expected and Actual Experience | (189,271,728) | 0 | (189,271,728) |
| d. Change in Assumptions | (183,865,460) | 0 | (183,865,460) |
| e. Contributions - Employer | 0 | 116,816,521 | (116,816,521) |
| f. Contributions - Employee | 0 | 0 | 0 |
| g. Net Investment Income | 0 | 0 | 0 |
| h. Actual Benefit Payments | (116,816,521) | (116,816,521) | 0 |
| i. Administrative Expenses | 0 | 0 | 0 |
| j. Other Changes | 0 | 0 | 0 |
| k. Net Changes | \$ (61,860,662) | \$ 0 | \$ (61,860,662) |
| 3. Balances at June 30, 2021 | \$5,297,663,231 | \$ 0 | \$ 5,297,663,231 |
| 4. Sensitivity of the Net OPEB Liability to Changes in the Discount Rate | | | |
| a. 1% Decrease | | | \$ 6,023,463,327 |
| b. 1% Increase | | | \$ 4,699,034,110 |
| 5. Sensitivity of the Net OPEB Liability to Changes in the Healthcare Cost Trend Rate | | | |
| a. 1% Decrease | | | \$ 4,514,347,744 |
| b. 1% Increase | | | \$ 6,299,679,747 |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Health and Hospitals Corporation (HHC)

Changes in Net OPEB Liability (NOL) by Source Balances at June 30, 2022

| | Total OPEB Liability (a) | Plan Fiduciary Net Position (b) | Net OPEB Liability (a) - (b) |
|--|--------------------------------|---------------------------------------|------------------------------------|
| 1. Balances at June 30, 2021 | \$ 5,297,663,231 | \$ 0 | \$ 5,297,663,231 |
| 2. Changes for the Year: | | | |
| a. Service Cost | 303,476,807 | 0 | 303,476,807 |
| b. Interest | 119,206,235 | 0 | 119,206,235 |
| c. Differences b/t Expected and Actual Experience | (191,019,280) | 0 | (191,019,280) |
| d. Change in Assumptions | (1,045,957,143) | 0 | (1,045,957,143) |
| e. Contributions - Employer | 0 | 267,369,727 | (267,369,727) |
| f. Contributions - Employee | 0 | 0 | 0 |
| g. Net Investment Income | 0 | 0 | 0 |
| h. Actual Benefit Payments | (267,369,727) | (267,369,727) | 0 |
| i. Administrative Expenses | 0 | 0 | 0 |
| j. Other Changes | 0 | 0 | 0 |
| k. Net Changes | \$ (1,081,663,108) | \$ 0 | \$ (1,081,663,108) |
| 3. Balances at June 30, 2022 | \$ 4,216,000,123 | \$ 0 | \$ 4,216,000,123 |
| 4. Sensitivity of the Net OPEB Liability to Changes in the Discount Rate | | | |
| a. 1% Decrease | | | \$ 4,743,989,802 |
| b. 1% Increase | | | \$ 3,774,065,124 |
| 5. Sensitivity of the Net OPEB Liability to Changes in the Healthcare Cost Trend Rate | | | |
| a. 1% Decrease | | | \$ 3,637,808,511 |
| b. 1% Increase | | | \$ 4,938,168,729 |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Health and Hospitals Corporation (HHC)

Schedule of Changes in Net OPEB Liability and Related Ratios

| | <u>2022</u> | <u>2021</u> | <u>2020</u> | <u>2019</u> | <u>2018</u> | <u>2017</u> | <u>2016</u> |
|---|---------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 1. Total OPEB Liability | | | | | | | |
| a. Service Cost | \$ 303,476,807 | \$ 279,634,887 | \$ 264,511,977 | \$ 307,104,165 | \$ 279,873,620 | \$ 274,749,014 | \$ 326,174,054 |
| b. Interest | 119,206,235 | 148,458,160 | 159,281,146 | 161,839,949 | 158,153,822 | 147,666,641 | 139,259,723 |
| c. Differences b/t Expected and Actual Experience | (191,019,280) | (189,271,728) | (450,870,527) | 858,810,861 | 104,933,324 | (122,396,196) | (43,447,941) |
| d. Changes of Assumptions | (1,045,957,143) | (183,865,460) | 99,391,048 | (806,009,047) | 110,707,118 | (661,093,887) | 0 |
| e. Benefit Payments | (267,369,727) | (116,816,521) | (230,815,371) | (171,558,795) | (235,395,190) | (56,086,853) | (95,999,857) |
| f. Other Changes ¹ | 0 | 0 | (41,077,814) | 0 | 0 | 0 | 0 |
| g. Net Changes in Total OPEB Liability | \$ (1,081,663,108) | \$ (61,860,662) | \$ (199,579,541) | \$ 350,187,133 | \$ 418,272,694 | \$ (417,161,281) | \$ 325,985,979 |
| 2. Total OPEB Liability - Beginning | \$ 5,297,663,231 | \$ 5,359,523,893 | \$ 5,559,103,434 | \$ 5,208,916,301 | \$ 4,790,643,607 | \$ 5,207,804,888 | \$ 4,881,818,909 |
| 3. Total OPEB Liability - Ending | \$ 4,216,000,123 | \$ 5,297,663,231 | \$ 5,359,523,893 | \$ 5,559,103,434 | \$ 5,208,916,301 | \$ 4,790,643,607 | \$ 5,207,804,888 |
| 4. Plan Fiduciary Net Position | | | | | | | |
| a. Contributions - Employer | \$ 267,369,727 | \$ 116,816,521 | 230,815,371 | 171,558,795 | 235,395,190 | 56,086,853 | 95,999,857 |
| b. Contributions - Employee | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| c. Net Investment Income | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| d. Benefit Payments | (267,369,727) | (116,816,521) | (230,815,371) | (171,558,795) | (235,395,190) | (56,086,853) | (95,999,857) |
| e. Administrative Expenses | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| f. Other Changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| g. Net Changes in Plan Fiduciary Net Position | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| 5. Plan Fiduciary Net Position - Beginning | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| 6. Plan Fiduciary Net Position - Ending | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| 7. Net OPEB Liability | \$ 4,216,000,123 | \$ 5,297,663,231 | \$ 5,359,523,893 | \$ 5,559,103,434 | \$ 5,208,916,301 | \$ 4,790,643,607 | \$ 5,207,804,888 |
| 8. Plan Fiduciary Net Position as a Percentage of Total OPEB Liability | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| 9. Covered Employee Payroll | \$2,548,754,286 | \$2,464,082,189 | \$2,320,004,778 | \$2,222,408,772 | \$2,211,014,210 | \$2,283,056,125 | \$2,171,335,699 |
| 10. Net OPEB Liability as a Percentage of Covered Employee Payroll | 165.4% | 215.0% | 231.0% | 250.1% | 235.6% | 209.8% | 239.8% |

¹Repeal of Cadillac Tax

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Health and Hospitals Corporation (HHC)

Average Future Working Lifetime at June 30, 2021

| <u>Group</u> | <u># Count</u> | Total Future Working Lifetime <u>at 6/30/2021</u> | Average Future Working Lifetime <u>at 6/30/2021</u> |
|-----------------|----------------|---|---|
| Active | 31,483 | 368,187 | 11.69 |
| Deferred Vested | 3,657 | 0 | 0 |
| Retired | <u>23,687</u> | <u>0</u> | <u>0</u> |
| Total | 58,827 | 368,187 | 6.26 |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Health and Hospitals Corporation (HHC)

**Increase (Decrease) in OPEB Expense Arising from the Recognition of
Differences between Expected and Actual Experience**

| Year | Differences between Expected and Actual Experience | Recognition Period (Years) | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 |
|--|---|---|-----------------------|------------------------|-----------------------|-----------------------|----------------------|----------------------|-----------------------|---------------------|---------------------|------------------------|------------------------|------------------------|-----------------------|
| 2016 | \$ (43,447,941) | 6.57 ¹ | \$ (6,613,081) | \$ (6,613,081) | \$ (6,613,081) | \$ (6,613,081) | \$ (6,613,081) | \$ (6,613,081) | \$ (3,769,455) | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| 2017 | (122,396,196) | 6.57 | 0 | (18,629,558) | (18,629,558) | (18,629,558) | (18,629,558) | (18,629,558) | (18,629,558) | (10,618,848) | 0 | 0 | 0 | 0 | 0 |
| 2018 | 104,933,324 | 6.35 | 0 | 0 | 16,524,933 | 16,524,933 | 16,524,933 | 16,524,933 | 16,524,933 | 16,524,933 | 5,783,726 | 0 | 0 | 0 | 0 |
| 2019 | 858,810,861 | 6.30 | 0 | 0 | 0 | 136,319,184 | 136,319,184 | 136,319,184 | 136,319,184 | 136,319,184 | 136,319,184 | 40,895,757 | 0 | 0 | 0 |
| 2020 | (450,870,527) | 6.18 | 0 | 0 | 0 | 0 | (72,956,396) | (72,956,396) | (72,956,396) | (72,956,396) | (72,956,396) | (72,956,396) | (13,132,151) | 0 | 0 |
| 2021 | (189,271,728) | 6.25 | 0 | 0 | 0 | 0 | 0 | (30,283,476) | (30,283,476) | (30,283,476) | (30,283,476) | (30,283,476) | (30,283,476) | (7,570,872) | 0 |
| 2022 | (191,019,280) | 6.26 | 0 | 0 | 0 | 0 | 0 | 0 | (30,514,262) | (30,514,262) | (30,514,262) | (30,514,262) | (30,514,262) | (30,514,262) | (7,933,708) |
| Net increase (decrease) in OPEB Expense | | | \$ (6,613,081) | \$ (25,242,639) | \$ (8,717,706) | \$ 127,601,478 | \$ 54,645,082 | \$ 24,361,606 | \$ (3,309,030) | \$ 8,471,135 | \$ 8,348,776 | \$ (92,858,377) | \$ (73,929,889) | \$ (38,085,134) | \$ (7,933,708) |

¹Represents the Future Working Lifetime as of June 30, 2016 due to the timing of GASB 74/75 implementation. All other years are as of the beginning of the fiscal year.

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Health and Hospitals Corporation (HHC)

**Increase (Decrease) in OPEB Expense Arising from the Recognition of
Changes in Assumptions**

| Year | Differences Due to Changes in Assumptions | Recognition Period (Years) | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 |
|---|--|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|
| 2017 | \$ (661,093,887) | 6.57 | \$ (100,623,118) | \$ (100,623,118) | \$ (100,623,118) | \$ (100,623,118) | \$ (100,623,118) | \$ (100,623,118) | \$ (57,355,179) | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| 2018 | 110,707,118 | 6.35 | 0 | 17,434,192 | 17,434,192 | 17,434,192 | 17,434,192 | 17,434,192 | 17,434,192 | 6,101,966 | 0 | 0 | 0 | 0 |
| 2019 | (806,009,047) | 6.30 | 0 | 0 | (127,937,944) | (127,937,944) | (127,937,944) | (127,937,944) | (127,937,944) | (127,937,944) | (38,381,383) | 0 | 0 | 0 |
| 2020 | 99,391,048 | 6.18 | 0 | 0 | 0 | 16,082,694 | 16,082,694 | 16,082,694 | 16,082,694 | 16,082,694 | 16,082,694 | 2,894,884 | 0 | 0 |
| 2021 | (183,865,460) | 6.25 | 0 | 0 | 0 | 0 | (29,418,474) | (29,418,474) | (29,418,474) | (29,418,474) | (29,418,474) | (29,418,474) | (7,354,616) | 0 |
| 2022 | (1,045,957,143) | 6.26 | 0 | 0 | 0 | 0 | 0 | (167,085,806) | (167,085,806) | (167,085,806) | (167,085,806) | (167,085,806) | (167,085,806) | (43,442,307) |
| Net increase (decrease) in OPEB Expense | | | \$ (100,623,118) | \$ (83,188,926) | \$ (211,126,870) | \$ (195,044,176) | \$ (224,462,650) | \$ (391,548,456) | \$ (348,280,517) | \$ (302,257,564) | \$ (218,802,969) | \$ (193,609,396) | \$ (174,440,422) | \$ (43,442,307) |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Health and Hospitals Corporation (HHC)

Components of OPEB Expense for the Fiscal Year Ended June 30, 2021

| <u>Component</u> | <u>Amount</u> |
|--|-------------------------------------|
| a. Service Cost | \$ 279,634,887 |
| b. Interest on the Total OPEB Liability | 148,458,160 |
| c. Differences between Expected and Actual Experience | 24,361,606 |
| d. Changes of Assumptions | (224,462,650) |
| e. Employee Contributions | 0 |
| f. Projected Earnings on OPEB Plan Investments | 0 |
| g. Differences between Projected and Actual Earnings on Plan Investments | 0 |
| h. OPEB Plan Administrative Expenses | 0 |
| i. Other Changes in Fiduciary Net Position | 0 |
| j. Other Changes in Total OPEB Liability | 0 |
| | <hr/> |
| Total OPEB Expense | <u><u>\$ 227,992,003</u></u> |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Health and Hospitals Corporation (HHC)

Components of OPEB Expense for the Fiscal Year Ended June 30, 2022

| <u>Component</u> | <u>Amount</u> |
|--|------------------------------------|
| a. Service Cost | \$ 303,476,807 |
| b. Interest on the Total OPEB Liability | 119,206,235 |
| c. Differences between Expected and Actual Experience | (3,309,030) |
| d. Changes of Assumptions | (391,548,456) |
| e. Employee Contributions | 0 |
| f. Projected Earnings on OPEB Plan Investments | 0 |
| g. Differences between Projected and Actual Earnings on Plan Investments | 0 |
| h. OPEB Plan Administrative Expenses | 0 |
| i. Other Changes in Fiduciary Net Position | 0 |
| j. Other Changes in Total OPEB Liability | 0 |
| | <hr/> |
| Total OPEB Expense | <u><u>\$ 27,825,556</u></u> |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Health and Hospitals Corporation (HHC)

OPEB Expense, Deferred Outflows of Resources, Deferred Inflows of Resources

For the Fiscal Year ended June 30, 2022, HHC recognized OPEB Expense of \$27,825,556.

At June 30, 2022, HHC reported total Deferred Outflows of Resources and Deferred Inflows of Resources related to OPEB from the following sources:

| | Deferred Outflows of Resources | Deferred Inflows of Resources |
|--|---|--|
| Differences between Expected and Actual Experience | \$ 335,842,784 | \$ 531,829,981 |
| Changes of Assumptions | <u>74,679,124</u> | <u>1,355,512,299</u> |
| Total | <u>\$ 410,521,908</u> | <u>\$ 1,887,342,280</u> |

Amounts reported as Deferred Outflows of Resources and Deferred Inflows of Resources related to OPEB will be recognized in OPEB Expense as follows:

| Fiscal Year Ended <u>June 30</u> | <u>Amount</u> |
|--|------------------|
| 2022 | \$ (394,857,486) |
| 2023 | (339,809,382) |
| 2024 | (293,908,788) |
| 2025 | (311,661,346) |
| 2026 | (267,539,285) |
| 2027 | (212,525,556) |
| 2028 | (51,376,015) |

New York City Housing Authority (NYCHA)

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Housing Authority (NYCHA)

Summary of June 30, 2021 OPEB Data

| | NYCERS | TRS | BERS | TOTAL |
|--|----------------|------------|-------|-----------------------------|
| 1. Actives | | | | |
| a. Number | 8,928 | 3 | 0 | 8,931 |
| b. Salary | \$ 651,595,094 | \$ 391,908 | NA | \$ 651,987,002 |
| c. Average Age | 48.58 | 60.33 | NA | 48.58 |
| d. Average Service | 14.49 | 28.00 | NA | 14.49 |
| e. Average Salary | \$ 72,983 | \$ 130,636 | NA | \$ 73,003 |
| 2. Deferreds (Includes Deferred Retirees, if any) | | | | |
| a. Number | 1,574 | 0 | 0 | 1,574 |
| b. Average Age | 55.44 | NA | NA | 55.44 |
| 3. Retirees | | | | |
| a. Total ¹ | | | | |
| i. Number | 8,627 | 2 | 25 | 8,654 |
| ii. Average Age | 71.56 | 77.99 | 69.14 | 71.55 |
| b. By Benefit | | | | <u>Participant / Spouse</u> |
| i. Pre-Medicare ² | | | | 1,913 / 1,216 |
| ii. Medicare Eligible ² | | | | 6,741 / 2,217 |
| iii. Welfare Fund ² | | | | 7,926 / NE |
| iv. Medicare Part B ³ | | | | 9,317 / 3,806 |

¹ Retirees eligible for at least one benefit from NYCHA.

² Retirees currently eligible for benefit from NYCHA.

³ Retirees eligible for benefit from NYCHA currently or in the future.

NE Not eligible.

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Housing Authority (NYCHA)

**June 30, 2021 Results of the Actuarial Valuation
Based on a 2.18% Discount Rate**

1. Total Present Value of Projected Benefits

| | Pre-Medicare | Medicare | Welfare Funds | Part B Premium | Total |
|---------------------------------|-------------------------|-------------------------|-----------------------|-------------------------|-----------------------------|
| a. Active | \$ 936,123,644 | \$ 930,664,175 | \$ 411,594,724 | \$ 904,129,485 | \$ 3,182,512,028 |
| b. Deferred ¹ | 275,189,413 | 149,092,061 | 82,274,808 | 140,445,128 | 647,001,410 |
| c. Retired | <u>289,162,161</u> | <u>496,219,387</u> | <u>280,657,988</u> | <u>454,957,743</u> | <u>1,520,997,279</u> |
| d. TOTAL | \$ 1,500,475,218 | \$ 1,575,975,623 | \$ 774,527,520 | \$ 1,499,532,356 | \$ 5,350,510,717 |

2. Entry Age Accrued Liability

| | | | | | |
|---------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------------|
| a. Active | \$ 241,103,567 | \$ 322,962,827 | \$ 142,461,112 | \$ 305,516,797 | \$ 1,012,044,303 |
| b. Deferred ¹ | 275,189,413 | 149,092,061 | 82,274,808 | 140,445,128 | 647,001,410 |
| c. Retired | <u>289,162,161</u> | <u>496,219,387</u> | <u>280,657,988</u> | <u>454,957,743</u> | <u>1,520,997,279</u> |
| d. TOTAL | \$ 805,455,141 | \$ 968,274,275 | \$ 505,393,908 | \$ 900,919,668 | \$ 3,180,042,992 |

3. Market Value of Assets

\$ 0

4. Unfunded Accrued Liability (UAL)

\$ 3,180,042,992

5. Entry Age Normal Cost

\$ 134,388,509

6. Salary of Active Participants

\$ 651,987,002

**7. Normal Cost Percentage
[5. / 6.]**

20.612%

¹ Includes Deferred Retirees, if any.

New York City School Construction Authority (SCA)

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City School Construction Authority (SCA)

Summary of June 30, 2021 OPEB Data

| | NYCERS | BERS | TOTAL |
|--|-------------|------------|-----------------------------|
| 1. Actives | | | |
| a. Number | 68 | 735 | 803 |
| b. Salary | \$9,288,029 | 82,178,049 | 91,466,078 |
| c. Average Age | 53.43 | 51.35 | 51.53 |
| d. Average Service | 19.56 | 11.46 | 12.15 |
| e. Average Salary | \$136,589 | \$111,807 | \$113,905 |
| 2. Deferreds (Includes Deferred Retirees, if any) | | | |
| a. Number | 8 | 31 | 39 |
| b. Average Age | 57.25 | 55.06 | 55.51 |
| 3. Retirees | | | |
| a. Total ¹ | | | |
| i. Number | 61 | 295 | 356 |
| ii. Average Age | 73.13 | 74.02 | 73.87 |
| b. By Benefit | | | <u>Participant / Spouse</u> |
| i. Pre-Medicare ² | | | NR / NR |
| ii. Medicare Eligible ² | | | NR / NR |
| iii. Welfare Fund ² | | | 356 / NE |
| iv. Medicare Part B ³ | | | NR / NR |

¹ Retirees eligible for at least one benefit from SCA.

² Retirees currently eligible for benefit from SCA.

³ Retirees eligible for benefit from SCA currently or in the future.

NR Not responsible (benefit not the responsibility of SCA).

NE Not eligible

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City School Construction Authority (SCA)

June 30, 2021 Results of the Actuarial Valuation
Based on a 2.18% Discount Rate

1. Total Present Value of Projected Benefits

| | Pre-Medicare | Medicare | Welfare Funds | Part B Premium | Total |
|---------------------------------|--------------|----------|-------------------|----------------|-------------------|
| a. Active | \$ 0 | \$ 0 | \$ 34,914,895 | \$ 0 | \$ 34,914,895 |
| b. Deferred ¹ | 0 | 0 | 2,136,351 | 0 | 2,136,351 |
| c. Retired | <u>0</u> | <u>0</u> | <u>11,387,308</u> | <u>0</u> | <u>11,387,308</u> |
| d. TOTAL | \$ 0 | \$ 0 | \$ 48,438,554 | \$ 0 | \$ 48,438,554 |

2. Entry Age Accrued Liability

| | | | | | |
|---------------------------------|----------|----------|-------------------|----------|-------------------|
| a. Active | \$ 0 | \$ 0 | \$ 12,321,478 | \$ 0 | \$ 12,321,478 |
| b. Deferred ¹ | 0 | 0 | 2,136,351 | 0 | 2,136,351 |
| c. Retired | <u>0</u> | <u>0</u> | <u>11,387,308</u> | <u>0</u> | <u>11,387,308</u> |
| d. TOTAL | \$ 0 | \$ 0 | \$ 25,845,137 | \$ 0 | \$ 25,845,137 |

| | |
|--|---------------|
| 3. Market Value of Assets | \$ 0 |
| 4. Unfunded Accrued Liability (UAL) | \$ 25,845,137 |
| 5. Entry Age Normal Cost | \$ 1,578,872 |
| 6. Salary of Active Participants | \$ 91,466,078 |
| 7. Normal Cost Percentage [5. / 6.] | 1.726% |

¹ Includes Deferred Retirees, if any.

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City School Construction Authority (SCA)

Market Values of Assets

| | Total |
|--|--------------|
| 1. Plan Net Position at June 30, 2020 | \$ 0 |
| 2. Changes for the year: | |
| a. ER Contributions | 787,691 |
| b. EE Contributions | 0 |
| c. Net Investment Income | 0 |
| d. Benefit Payments | (787,691) |
| e. Administrative Expenses | 0 |
| f. Other | 0 |
| g. Net Changes | <u>\$ 0</u> |
| 3. Plan Net Position at June 30, 2021 | <u>\$ 0</u> |
| 4. Changes for the year: | |
| a. ER Contributions | 820,639 |
| b. EE Contributions | 0 |
| c. Net Investment Income | 0 |
| d. Benefit Payments | (820,639) |
| e. Administrative Expenses | 0 |
| f. Other | 0 |
| g. Net Changes | <u>\$ 0</u> |
| 5. Plan Net Position at June 30, 2022 | <u>\$ 0</u> |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City School Construction Authority (SCA)

Roll-Forward of Entry Age Accrued Liabilities to June 30, 2022

| | Total |
|---|-----------------------------|
| 1. Disclosed Entry Age Accrued Liability (EAAL) at June 30, 2021 ¹ | \$ 27,564,388 |
| 2. Entry Age Normal Cost at June 30, 2021 ¹ | 1,578,872 |
| 3. Actual Benefit Payments-FY22 | (820,639) |
| 4. Interest ¹ | 626,426 |
| 5. (Gain)/Loss due to Experience Change ¹ | (1,756,730) |
| 6. (Gain)/Loss due to Demographic Assumption Change ¹ | (557,234) |
| 7. (Gain)/Loss due to Discount Rate Change | <u>(5,972,171)</u> |
| 8. Roll-Forward EAAL at June 30, 2022 ² | <u><u>\$ 20,662,912</u></u> |

¹Assumes a 2.18% interest rate

²Assumes a 4.09% interest rate

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City School Construction Authority (SCA)

Changes in Net OPEB Liability (NOL) by Source Balances at June 30, 2021

| | Total OPEB Liability (a) | Plan Fiduciary Net Position (b) | Net OPEB Liability (a) - (b) |
|--|--------------------------------|---------------------------------------|------------------------------------|
| 1. Balances at June 30, 2020 | \$ 26,170,128 | \$ 0 | \$ 26,170,128 |
| 2. Changes for the Year: | | | |
| a. Service Cost | 1,480,875 | 0 | 1,480,875 |
| b. Interest | 725,109 | 0 | 725,109 |
| c. Differences b/t Expected and Actual Experience | (369,757) | 0 | (369,757) |
| d. Changes in Assumptions | 345,724 | 0 | 345,724 |
| e. Contributions - Employer | 0 | 787,691 | (787,691) |
| f. Contributions - Employee | 0 | 0 | 0 |
| g. Net Investment Income | 0 | 0 | 0 |
| h. Actual Benefit Payments | (787,691) | (787,691) | 0 |
| i. Administrative Expenses | 0 | 0 | 0 |
| j. Other Changes | 0 | 0 | 0 |
| k. Net Changes | \$ 1,394,260 | \$ 0 | \$ 1,394,260 |
| 3. Balances at June 30, 2021 | \$ 27,564,388 | \$ 0 | \$ 27,564,388 |
| 4. Sensitivity of the Net OPEB Liability to Changes in the Discount Rate | | | |
| a. 1% Decrease | | | \$ 31,735,287 |
| b. 1% Increase | | | \$ 24,072,767 |
| 5. Sensitivity of the Net OPEB Liability to Changes in the Healthcare Cost Trend Rate | | | |
| a. 1% Decrease | | | \$ 23,194,635 |
| b. 1% Increase | | | \$ 33,235,998 |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City School Construction Authority (SCA)

Changes in Net OPEB Liability (NOL) by Source Balances at June 30, 2022

| | Total OPEB Liability (a) | Plan Fiduciary Net Position (b) | Net OPEB Liability (a) - (b) |
|--|--------------------------------|---------------------------------------|------------------------------------|
| 1. Balances at June 30, 2021 | \$ 27,564,388 | \$ 0 | \$ 27,564,388 |
| 2. Changes for the Year: | | | |
| a. Service Cost | 1,578,872 | 0 | 1,578,872 |
| b. Interest | 626,426 | 0 | 626,426 |
| c. Differences b/t Expected and Actual Experience | (1,756,730) | 0 | (1,756,730) |
| d. Changes in Assumptions | (6,529,405) | 0 | (6,529,405) |
| e. Contributions - Employer | 0 | 820,639 | (820,639) |
| f. Contributions - Employee | 0 | 0 | 0 |
| g. Net Investment Income | 0 | 0 | 0 |
| h. Actual Benefit Payments | (820,639) | (820,639) | 0 |
| i. Administrative Expenses | 0 | 0 | 0 |
| j. Other Changes | 0 | 0 | 0 |
| k. Net Changes | \$ (6,901,476) | \$ 0 | \$ (6,901,476) |
| 3. Balances at June 30, 2022 | \$ 20,662,912 | \$ 0 | \$ 20,662,912 |
| 4. Sensitivity of the Net OPEB Liability to Changes in the Discount Rate | | | |
| a. 1% Decrease | | | \$ 23,536,018 |
| b. 1% Increase | | | \$ 18,252,425 |
| 5. Sensitivity of the Net OPEB Liability to Changes in the Healthcare Cost Trend Rate | | | |
| a. 1% Decrease | | | \$ 17,529,589 |
| b. 1% Increase | | | \$ 24,633,596 |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City School Construction Authority (SCA)

Schedule of Changes in Net OPEB Liability and Related Ratios

| | <u>2022</u> | <u>2021</u> | <u>2020</u> | <u>2019</u> | <u>2018</u> | <u>2017</u> | <u>2016</u> |
|---|-----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|----------------------|
| 1. Total OPEB Liability | | | | | | | |
| a. Service Cost | \$ 1,578,872 | \$ 1,480,875 | \$ 1,357,943 | \$ 1,363,069 | \$ 1,226,189 | \$ 1,050,170 | \$ 1,281,787 |
| b. Interest | 626,426 | 725,109 | 722,793 | 741,663 | 715,888 | 615,479 | 611,500 |
| c. Differences b/t Expected and Actual Experience | (1,756,730) | (369,757) | (571,663) | 2,835,826 | 1,943,051 | (761,806) | (32,395) |
| d. Changes of Assumptions | (6,529,405) | 345,724 | 489,564 | (3,223,925) | 508,111 | (3,259,111) | 0 |
| e. Benefit Payments | (820,639) | (787,691) | (749,119) | (637,257) | (567,069) | (549,250) | (477,190) |
| f. Other Changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| g. Net Changes in Total OPEB Liability | \$ (6,901,476) | \$ 1,394,260 | \$ 1,249,518 | \$ 1,079,376 | \$ 3,826,170 | \$ (2,904,518) | \$ 1,383,702 |
| 2. Total OPEB Liability - Beginning | \$ 27,564,388 | \$ 26,170,128 | \$ 24,920,610 | \$ 23,841,234 | \$ 20,015,064 | \$ 22,919,582 | \$ 21,535,880 |
| 3. Total OPEB Liability - Ending | \$ 20,662,912 | \$ 27,564,388 | \$ 26,170,128 | \$ 24,920,610 | \$ 23,841,234 | \$ 20,015,064 | \$ 22,919,582 |
| 4. Plan Fiduciary Net Position | | | | | | | |
| a. Contributions - Employer | \$ 820,639 | \$ 787,691 | \$ 749,119 | \$ 637,257 | \$ 567,069 | \$ 549,250 | \$ 477,190 |
| b. Contributions - Employee | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| c. Net Investment Income | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| d. Benefit Payments | (820,639) | (787,691) | (749,119) | (637,257) | (567,069) | (549,250) | (477,190) |
| e. Administrative Expenses | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| f. Other Changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| g. Net Changes in Plan Fiduciary Net Position | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| 5. Plan Fiduciary Net Position - Beginning | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| 6. Plan Fiduciary Net Position - Ending | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| 7. Net OPEB Liability | \$ 20,662,912 | \$ 27,564,388 | \$ 26,170,128 | \$ 24,920,610 | \$ 23,841,234 | \$ 20,015,064 | \$ 22,919,582 |
| 8. Plan Fiduciary Net Position as a Percentage of Total OPEB Liability | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| 9. Covered Employee Payroll | \$ 91,466,078 | \$ 90,540,363 | \$ 85,313,119 | \$ 80,058,947 | \$ 73,176,662 | \$ 68,026,651 | \$ 60,765,975 |
| 10. Net OPEB Liability as a Percentage of Covered Employee Payroll | 22.6% | 30.4% | 30.7% | 31.1% | 32.6% | 29.4% | 37.7% |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City School Construction Authority (SCA)

Average Future Working Lifetime at June 30, 2021

| <u>Group</u> | <u># Count</u> | Total Future Working Lifetime <u>at June 30, 2021</u> | Average Future Working Lifetime <u>at June 30, 2021</u> |
|-----------------|----------------|---|---|
| Active | 803 | 8,737 | 10.88 |
| Deferred Vested | 39 | 0 | 0 |
| Retired | <u>356</u> | <u>0</u> | <u>0</u> |
| Total | 1,198 | 8,737 | 7.29 |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City School Construction Authority (SCA)

**Increase (Decrease) in OPEB Expense Arising from the Recognition of
Differences between Expected and Actual Experience**

| Year | Differences between Expected and Actual Experience | Recognition Period (Years) | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 |
|---|---|---|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|-------------|
| 2016 | \$ (32,395) | 6.41 ¹ | \$ (5,054) | \$ (5,054) | \$ (5,054) | \$ (5,054) | \$ (5,054) | \$ (5,054) | \$ (2,071) | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| 2017 | (761,806) | 6.41 | 0 | (118,846) | (118,846) | (118,846) | (118,846) | (118,846) | (118,846) | (48,730) | 0 | 0 | 0 | 0 | 0 | 0 |
| 2018 | 1,943,051 | 6.44 | 0 | 0 | 301,716 | 301,716 | 301,716 | 301,716 | 301,716 | 301,716 | 132,755 | 0 | 0 | 0 | 0 | 0 |
| 2019 | 2,835,826 | 7.45 | 0 | 0 | 0 | 380,648 | 380,648 | 380,648 | 380,648 | 380,648 | 380,648 | 380,648 | 171,290 | 0 | 0 | 0 |
| 2020 | (571,663) | 7.27 | 0 | 0 | 0 | 0 | (78,633) | (78,633) | (78,633) | (78,633) | (78,633) | (78,633) | (78,633) | (21,232) | 0 | 0 |
| 2021 | (369,757) | 7.44 | 0 | 0 | 0 | 0 | 0 | (49,699) | (49,699) | (49,699) | (49,699) | (49,699) | (49,699) | (49,699) | (21,864) | 0 |
| 2022 | (1,756,730) | 7.29 | 0 | 0 | 0 | 0 | 0 | 0 | (240,978) | (240,978) | (240,978) | (240,978) | (240,978) | (240,978) | (240,978) | (69,884) |
| Net increase (decrease) in OPEB Expense | | | \$ (5,054) | \$ (123,900) | \$ 177,816 | \$ 558,464 | \$ 479,831 | \$ 430,132 | \$ 192,137 | \$ 264,324 | \$ 144,093 | \$ 11,338 | \$ (198,020) | \$ (311,909) | \$ (262,842) | \$ (69,884) |

¹Represents the Future Working Lifetime as of June 30, 2016 due to the timing of GASB 74/75 implementation. All other years are as of the beginning of the fiscal year.

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City School Construction Authority (SCA)

**Increase (Decrease) in OPEB Expense Arising from the Recognition of
Changes in Assumptions**

| Year | Differences Due to Changes in Assumptions | Recognition Period (Years) | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 |
|---|--|---|--------------|--------------|--------------|--------------|--------------|----------------|----------------|----------------|----------------|--------------|--------------|--------------|--------------|
| 2017 | \$ (3,259,111) | 6.41 | \$ (508,442) | \$ (508,442) | \$ (508,442) | \$ (508,442) | \$ (508,442) | \$ (508,442) | \$ (208,459) | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| 2018 | 508,111 | 6.44 | 0 | 78,899 | 78,899 | 78,899 | 78,899 | 78,899 | 78,899 | 34,717 | 0 | 0 | 0 | 0 | 0 |
| 2019 | (3,223,925) | 7.45 | 0 | 0 | (432,742) | (432,742) | (432,742) | (432,742) | (432,742) | (432,742) | (432,742) | (194,731) | 0 | 0 | 0 |
| 2020 | 489,564 | 7.27 | 0 | 0 | 0 | 67,340 | 67,340 | 67,340 | 67,340 | 67,340 | 67,340 | 67,340 | 18,184 | 0 | 0 |
| 2021 | 345,724 | 7.44 | 0 | 0 | 0 | 0 | 46,468 | 46,468 | 46,468 | 46,468 | 46,468 | 46,468 | 46,468 | 20,448 | 0 |
| 2022 | (6,529,405) | 7.29 | 0 | 0 | 0 | 0 | 0 | (895,666) | (895,666) | (895,666) | (895,666) | (895,666) | (895,666) | (895,666) | (259,743) |
| Net increase (decrease) in OPEB Expense | | | \$ (508,442) | \$ (429,543) | \$ (862,285) | \$ (794,945) | \$ (748,477) | \$ (1,644,143) | \$ (1,344,160) | \$ (1,179,883) | \$ (1,214,600) | \$ (976,589) | \$ (831,014) | \$ (875,218) | \$ (259,743) |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City School Construction Authority (SCA)

Components of OPEB Expense for the Fiscal Year Ended June 30, 2021

| <u>Component</u> | <u>Amount</u> |
|--|-----------------------------------|
| a. Service Cost | \$ 1,480,875 |
| b. Interest on the Total OPEB Liability | 725,109 |
| c. Differences between Expected and Actual Experience | 430,132 |
| d. Changes of Assumptions | (748,477) |
| e. Employee Contributions | 0 |
| f. Projected Earnings on OPEB Plan Investments | 0 |
| g. Differences between Projected and Actual Earnings on Plan Investments | 0 |
| h. OPEB Plan Administrative Expenses | 0 |
| i. Other Changes in Fiduciary Net Position | 0 |
| | <hr/> |
| Total OPEB Expense | <u><u>\$ 1,887,639</u></u> |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City School Construction Authority (SCA)

Components of OPEB Expense for the Fiscal Year Ended June 30, 2022

| <u>Component</u> | <u>Amount</u> |
|--|---------------------------------|
| a. Service Cost | \$ 1,578,872 |
| b. Interest on the Total OPEB Liability | 626,426 |
| c. Differences between Expected and Actual Experience | 192,137 |
| d. Changes of Assumptions | (1,644,143) |
| e. Employee Contributions | 0 |
| f. Projected Earnings on OPEB Plan Investments | 0 |
| g. Differences between Projected and Actual Earnings on Plan Investments | 0 |
| h. OPEB Plan Administrative Expenses | 0 |
| i. Other Changes in Fiduciary Net Position | 0 |
| | <hr/> |
| Total OPEB Expense | <u><u>\$ 753,292</u></u> |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City School Construction Authority (SCA)

OPEB Expense, Deferred Outflows of Resources, Deferred Inflows of Resources

For the Fiscal Year ended June 30, 2022, SCA recognized OPEB Expense of \$753,292.

At June 30, 2022, SCA reported total Deferred Outflows of Resources and Deferred Inflows of Resources related to OPEB from the following sources:

| | Deferred Outflows of Resources | Deferred Inflows of Resources |
|--|---|--|
| Differences between Expected and Actual Experience | \$ 1,747,705 | \$ 2,170,605 |
| Changes of Assumptions | <u>653,948</u> | <u>7,335,155</u> |
| Total | <u><u>\$ 2,401,653</u></u> | <u><u>\$ 9,505,760</u></u> |

Amounts reported as Deferred Outflows of Resources and Deferred Inflows of Resources related to OPEB will be recognized in OPEB Expense as follows:

| Fiscal Year Ended <u>June 30</u> | <u>Amount</u> |
|--|----------------|
| 2022 | \$ (1,452,006) |
| 2023 | (1,079,836) |
| 2024 | (1,035,790) |
| 2025 | (1,203,262) |
| 2026 | (1,174,609) |
| 2027 | (1,142,923) |
| 2028 | (1,138,060) |
| 2029 | (329,627) |

New York City Municipal Water Finance Authority (WFA)

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Municipal Water Finance Authority (WFA)

Summary of June 30, 2021 OPEB Data

| | NYCERS | BERS | TOTAL |
|--|--------------|-------|-----------------------------|
| 1. Actives | | | |
| a. Number | 10 | 0 | 10 |
| b. Salary | \$ 1,155,824 | NA | \$ 1,155,824 |
| c. Average Age | 46.20 | NA | 46.20 |
| d. Average Service | 15.20 | NA | 15.20 |
| e. Average Salary | \$ 115,582 | NA | \$ 115,582 |
| 2. Deferreds (Includes Deferred Retirees, if any) | | | |
| a. Number | 2 | 0 | 2 |
| b. Average Age | 46.50 | NA | 46.50 |
| 3. Retirees | | | |
| a. Total ¹ | | | |
| i. Number | 4 | 1 | 5 |
| ii. Average Age | 73.58 | 77.81 | 74.43 |
| b. By Benefit | | | <u>Participant / Spouse</u> |
| i. Pre-Medicare ² | | | 0 / 0 |
| ii. Medicare Eligible ² | | | 5 / 1 |
| iii. Welfare Fund ² | | | 5 / NE |
| iv. Medicare Part B ³ | | | NR / NR |

¹ Retirees eligible for at least one benefit from WFA.

² Retirees currently eligible for benefit from WFA.

³ Retirees eligible for benefit from WFA currently or in the future.

NR Not responsible (benefit not the responsibility of WFA).

NE Not eligible.

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Municipal Water Finance Authority (WFA)

**June 30, 2021 Results of the Actuarial Valuation
Based on a 2.18% Discount Rate**

1. Total Present Value of Projected Benefits

| | Pre-Medicare | Medicare | Welfare Funds | Part B Premium | Total |
|--------------------------|--------------|----------------|----------------|----------------|----------------|
| a. Active | \$ 1,076,582 | \$ 1,161,082 | \$ 541,847 | \$ 0 | \$ 2,779,511 |
| b. Deferred ¹ | 660,870 | 249,509 | 122,417 | 0 | 1,032,796 |
| c. Retired | <u>0</u> | <u>191,617</u> | <u>156,108</u> | <u>0</u> | <u>347,725</u> |
| d. TOTAL | \$ 1,737,452 | \$ 1,602,208 | \$ 820,372 | \$ 0 | \$ 4,160,032 |

2. Entry Age Accrued Liability

| | | | | | |
|--------------------------|------------|----------------|----------------|----------|----------------|
| a. Active | \$ 269,876 | \$ 412,008 | \$ 192,452 | \$ 0 | \$ 874,336 |
| b. Deferred ¹ | 660,870 | 249,509 | 122,417 | 0 | 1,032,796 |
| c. Retired | <u>0</u> | <u>191,617</u> | <u>156,108</u> | <u>0</u> | <u>347,725</u> |
| d. TOTAL | \$ 930,746 | \$ 853,134 | \$ 470,977 | \$ 0 | \$ 2,254,857 |

| | |
|--|--------------|
| 3. Market Value of Assets | \$ 0 |
| 4. Unfunded Accrued Liability (UAL) | \$ 2,254,857 |
| 5. Entry Age Normal Cost | \$ 111,586 |
| 6. Salary of Active Participants | \$ 1,155,824 |
| 7. Normal Cost Percentage [5. / 6.] | 9.654% |

¹ Includes Deferred Retirees, if any.

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Municipal Water Finance Authority (WFA)

Market Values of Assets

| | Total |
|--|--------------|
| 1. Plan Net Position at June 30, 2020 | \$ 0 |
| 2. Changes for the year: | |
| a. ER Contributions | 18,699 |
| b. EE Contributions | 0 |
| c. Net Investment Income | 0 |
| d. Benefit Payments | (18,699) |
| e. Administrative Expenses | 0 |
| f. Other | 0 |
| g. Net Changes | <u>\$ 0</u> |
| 3. Plan Net Position at June 30, 2021 | <u>\$ 0</u> |
| 4. Changes for the year: | |
| a. ER Contributions | 18,774 |
| b. EE Contributions | 0 |
| c. Net Investment Income | 0 |
| d. Benefit Payments | (18,774) |
| e. Administrative Expenses | 0 |
| f. Other | 0 |
| g. Net Changes | <u>\$ 0</u> |
| 5. Plan Net Position at June 30, 2022 | <u>\$ 0</u> |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Municipal Water Finance Authority (WFA)

Roll-Forward of Entry Age Accrued Liabilities to June 30, 2022

| | Total |
|---|----------------------------|
| 1. Disclosed Entry Age Accrued Liability (EAAL) at June 30, 2021 ¹ | \$ 1,927,605 |
| 2. Entry Age Normal Cost at June 30, 2021 ¹ | 111,586 |
| 3. Actual Benefit Payments-FY22 | (18,774) |
| 4. Interest ¹ | 44,251 |
| 5. (Gain)/Loss due to Experience Change ¹ | 334,386 |
| 6. (Gain)/Loss due to Demographic Assumption Change ¹ | (57,958) |
| 7. (Gain)/Loss due to Discount Rate Change | <u>(570,181)</u> |
| 8. Roll-Forward EAAL at June 30, 2022 ² | <u><u>\$ 1,770,915</u></u> |

¹Assumes a 2.18% interest rate

²Assumes a 4.09% interest rate

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Municipal Water Finance Authority (WFA)

Changes in Net OPEB Liability (NOL) by Source Balances at June 30, 2021

| | Total OPEB Liability (a) | Plan Fiduciary Net Position (b) | Net OPEB Liability (a) - (b) |
|--|--------------------------------|---------------------------------------|------------------------------------|
| 1. Balances at June 30, 2020 | \$ 1,928,752 | \$ 0 | \$ 1,928,752 |
| 2. Changes for the Year: | | | |
| a. Service Cost | 111,880 | 0 | 111,880 |
| b. Interest | 54,034 | 0 | 54,034 |
| c. Differences b/t Expected and Actual Experience | (114,048) | 0 | (114,048) |
| d. Change in Assumptions | (34,314) | 0 | (34,314) |
| e. Contributions - Employer | 0 | 18,699 | (18,699) |
| f. Contributions - Employee | 0 | 0 | 0 |
| g. Net Investment Income | 0 | 0 | 0 |
| h. Actual Benefit Payments | (18,699) | (18,699) | 0 |
| i. Administrative Expenses | 0 | 0 | 0 |
| j. Other Changes | 0 | 0 | 0 |
| k. Net Changes | \$ (1,147) | \$ 0 | \$ (1,147) |
| 3. Balances at June 30, 2021 | \$ 1,927,605 | \$ 0 | \$ 1,927,605 |
| 4. Sensitivity of the Net OPEB Liability to Changes in the Discount Rate | | | |
| a. 1% Decrease | | | \$ 2,169,240 |
| b. 1% Increase | | | \$ 1,719,466 |
| 5. Sensitivity of the Net OPEB Liability to Changes in the Healthcare Cost Trend Rate | | | |
| a. 1% Decrease | | | \$ 1,598,041 |
| b. 1% Increase | | | \$ 2,362,605 |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Municipal Water Finance Authority (WFA)

Changes in Net OPEB Liability (NOL) by Source Balances at June 30, 2022

| | Total OPEB Liability (a) | Plan Fiduciary Net Position (b) | Net OPEB Liability (a) - (b) |
|--|--------------------------------|---------------------------------------|------------------------------------|
| 1. Balances at June 30, 2021 | \$ 1,927,605 | \$ 0 | \$ 1,927,605 |
| 2. Changes for the Year: | | | |
| a. Service Cost | 111,586 | 0 | 111,586 |
| b. Interest | 44,251 | 0 | 44,251 |
| c. Differences b/t Expected and Actual Experience | 334,386 | 0 | 334,386 |
| d. Change in Assumptions | (628,139) | 0 | (628,139) |
| e. Contributions - Employer | 0 | 18,774 | (18,774) |
| f. Contributions - Employee | 0 | 0 | 0 |
| g. Net Investment Income | 0 | 0 | 0 |
| h. Actual Benefit Payments | (18,774) | (18,774) | 0 |
| i. Administrative Expenses | 0 | 0 | 0 |
| j. Other Changes | 0 | 0 | 0 |
| k. Net Changes | \$ (156,690) | \$ 0 | \$ (156,690) |
| 3. Balances at June 30, 2022 | \$ 1,770,915 | \$ 0 | \$ 1,770,915 |
| 4. Sensitivity of the Net OPEB Liability to Changes in the Discount Rate | | | |
| a. 1% Decrease | | | \$ 2,038,988 |
| b. 1% Increase | | | \$ 1,553,646 |
| 5. Sensitivity of the Net OPEB Liability to Changes in the Healthcare Cost Trend Rate | | | |
| a. 1% Decrease | | | \$ 1,481,536 |
| b. 1% Increase | | | \$ 2,144,664 |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Municipal Water Finance Authority (WFA)

Schedule of Changes in Net OPEB Liability and Related Ratios

| | <u>2022</u> | <u>2021</u> | <u>2020</u> | <u>2019</u> | <u>2018</u> | <u>2017</u> | <u>2016</u> |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 1. Total OPEB Liability | | | | | | | |
| a. Service Cost | \$ 111,586 | \$ 111,880 | \$ 96,812 | \$ 110,962 | \$ 93,822 | \$ 101,168 | \$ 136,444 |
| b. Interest | 44,251 | 54,034 | 53,413 | 46,397 | 43,418 | 43,073 | 42,584 |
| c. Differences b/t Expected and Actual Experience | 334,386 | (114,048) | (43,206) | 571,891 | (106,042) | (96,417) | (8,454) |
| d. Changes of Assumptions | (628,139) | (34,314) | 32,716 | (335,771) | 34,849 | (222,259) | 0 |
| e. Benefit Payments | (18,774) | (18,699) | (20,517) | (23,115) | (20,396) | (14,901) | (16,973) |
| f. Other Changes ¹ | 0 | 0 | (18,300) | 0 | 0 | 0 | 0 |
| g. Net Changes in Total OPEB Liability | \$ (156,690) | \$ (1,147) | \$ 100,918 | \$ 370,364 | \$ 45,651 | \$ (189,336) | \$ 153,601 |
| 2. Total OPEB Liability - Beginning | \$ 1,927,605 | \$ 1,928,752 | \$ 1,827,834 | \$ 1,457,470 | \$ 1,411,819 | \$ 1,601,155 | \$ 1,447,554 |
| 3. Total OPEB Liability - Ending | \$ 1,770,915 | \$ 1,927,605 | \$ 1,928,752 | \$ 1,827,834 | \$ 1,457,470 | \$ 1,411,819 | \$ 1,601,155 |
| 4. Plan Fiduciary Net Position | | | | | | | |
| a. Contributions - Employer | \$ 18,774 | \$ 18,699 | \$ 20,517 | \$ 23,115 | \$ 20,396 | \$ 14,901 | \$ 16,973 |
| b. Contributions - Employee | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| c. Net Investment Income | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| d. Benefit Payments | (18,774) | (18,699) | (20,517) | (23,115) | (20,396) | (14,901) | (16,973) |
| e. Administrative Expenses | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| f. Other Changes | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| g. Net Changes in Plan Fiduciary Net Position | \$ 0 |
| 5. Plan Fiduciary Net Position - Beginning | \$ 0 |
| 6. Plan Fiduciary Net Position - Ending | \$ 0 |
| 7. Net OPEB Liability | \$ 1,770,915 | \$ 1,927,605 | \$ 1,928,752 | \$ 1,827,834 | \$ 1,457,470 | \$ 1,411,819 | \$ 1,601,155 |
| 8. Plan Fiduciary Net Position as a Percentage of Total OPEB Liability | 0.0% |
| 9. Covered Employee Payroll | \$ 1,155,824 | \$ 1,209,068 | \$ 1,187,306 | \$ 942,469 | \$ 858,968 | \$ 1,038,842 | \$ 1,147,964 |
| 10. Net OPEB Liability as a Percentage of Covered Employee Payroll | 153.2% | 159.4% | 162.4% | 193.9% | 169.7% | 135.9% | 139.5% |

¹Repeal of Cadillac Tax

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Municipal Water Finance Authority (WFA)

Average Future Working Lifetime at June 30, 2021

| <u>Group</u> | <u># Count</u> | Total of Future Working Lifetime <u>June 30, 2021</u> | Average Future Working Lifetime <u>at June 30, 2021</u> |
|-----------------|----------------|---|---|
| Active | 10 | 136.48 | 13.65 |
| Deferred Vested | 2 | 0 | 0 |
| Retired | <u>5</u> | <u>0</u> | <u>0</u> |
| Total | 17 | 136.48 | 8.03 |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Municipal Water Finance Authority (WFA)

**Increase (Decrease) in OPEB Expense Arising from the Recognition of
Differences between Expected and Actual Experience**

| Year | Differences between Expected and Actual Experience | Recognition Period (Years) | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|---|---|----------------------------------|----------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| | | | | | | | | | | | | | | | | | |
| 2016 | \$ (8,454) | 9.26 ¹ | \$ (913) | \$ (913) | \$ (913) | \$ (913) | \$ (913) | \$ (913) | \$ (913) | \$ (913) | \$ (913) | \$ (237) | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| 2017 | (96,417) | 9.26 | 0 | (10,412) | (10,412) | (10,412) | (10,412) | (10,412) | (10,412) | (10,412) | (10,412) | (10,412) | (2,709) | 0 | 0 | 0 | 0 |
| 2018 | (106,042) | 8.71 | 0 | 0 | (12,175) | (12,175) | (12,175) | (12,175) | (12,175) | (12,175) | (12,175) | (12,175) | (8,642) | 0 | 0 | 0 | 0 |
| 2019 | 571,891 | 8.51 | 0 | 0 | 0 | 67,202 | 67,202 | 67,202 | 67,202 | 67,202 | 67,202 | 67,202 | 67,202 | 34,275 | 0 | 0 | 0 |
| 2020 | (43,206) | 8.39 | 0 | 0 | 0 | 0 | (5,150) | (5,150) | (5,150) | (5,150) | (5,150) | (5,150) | (5,150) | (5,150) | (2,006) | 0 | 0 |
| 2021 | (114,048) | 9.39 | 0 | 0 | 0 | 0 | 0 | (12,146) | (12,146) | (12,146) | (12,146) | (12,146) | (12,146) | (12,146) | (12,146) | (12,146) | (4,734) |
| 2022 | 334,386 | 8.03 | 0 | 0 | 0 | 0 | 0 | 0 | 41,642 | 41,642 | 41,642 | 41,642 | 41,642 | 41,642 | 41,642 | 41,642 | 1,250 |
| Net increase (decrease) in OPEB Expense | | | \$ (913) | \$ (11,325) | \$ (23,500) | \$ 43,702 | \$ 38,552 | \$ 26,406 | \$ 68,048 | \$ 68,048 | \$ 68,048 | \$ 68,724 | \$ 80,197 | \$ 58,621 | \$ 27,490 | \$ 29,496 | \$ (3,484) |

¹Represents the Future Working Lifetime as of June 30, 2016 due to the timing og GASB 74/75 implementation. All other years are as of the beginning of the fiscal year.

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Municipal Water Finance Authority (WFA)

**Increase (Decrease) in OPEB Expense Arising from the Recognition of
Changes in Assumptions**

| Year | Differences Due to Changes in Assumptions | Recognition Period (Years) | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|---|--|----------------------------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|------------|
| | | | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ |
| 2017 | \$ (222,259) | 9.26 | \$ (24,002) | \$ (24,002) | \$ (24,002) | \$ (24,002) | \$ (24,002) | \$ (24,002) | \$ (24,002) | \$ (24,002) | \$ (24,002) | \$ (6,241) | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| 2018 | 34,849 | 8.71 | 0 | 4,001 | 4,001 | 4,001 | 4,001 | 4,001 | 4,001 | 4,001 | 4,001 | 2,841 | 0 | 0 | 0 | 0 |
| 2019 | (335,771) | 8.51 | 0 | 0 | (39,456) | (39,456) | (39,456) | (39,456) | (39,456) | (39,456) | (39,456) | (39,456) | (20,123) | 0 | 0 | 0 |
| 2020 | 32,716 | 8.39 | 0 | 0 | 0 | 3,899 | 3,899 | 3,899 | 3,899 | 3,899 | 3,899 | 3,899 | 3,899 | 1,524 | 0 | 0 |
| 2021 | (34,314) | 9.39 | 0 | 0 | 0 | 0 | (3,654) | (3,654) | (3,654) | (3,654) | (3,654) | (3,654) | (3,654) | (3,654) | (3,654) | (1,428) |
| 2022 | (628,139) | 8.03 | 0 | 0 | 0 | 0 | 0 | (78,224) | (78,224) | (78,224) | (78,224) | (78,224) | (78,224) | (78,224) | (78,224) | (2,347) |
| Net increase (decrease) in OPEB Expense | | | \$ (24,002) | \$ (20,001) | \$ (59,457) | \$ (55,558) | \$ (59,212) | \$ (137,436) | \$ (137,436) | \$ (137,436) | \$ (137,436) | \$ (120,835) | \$ (98,102) | \$ (80,354) | \$ (81,878) | \$ (3,775) |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Municipal Water Finance Authority (WFA)

Components of OPEB Expense for the Fiscal Year Ended June 30, 2021

| <u>Component</u> | <u>Amount</u> |
|--|---------------------------------|
| a. Service Cost | \$ 111,880 |
| b. Interest on the Total OPEB Liability | 54,034 |
| c. Differences between Expected and Actual Experience | 26,406 |
| d. Changes of Assumptions | (59,212) |
| e. Employee Contributions | 0 |
| f. Projected Earnings on OPEB Plan Investments | 0 |
| g. Differences between Projected and Actual Earnings on Plan Investments | 0 |
| h. OPEB Plan Administrative Expenses | 0 |
| i. Other Changes in Fiduciary Net Position | 0 |
| j. Other Changes in Total OPEB Liability | 0 |
| | <hr/> |
| Total OPEB Expense | <u><u>\$ 133,108</u></u> |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Municipal Water Finance Authority (WFA)

Components of OPEB Expense for the Fiscal Year Ended June 30, 2022

| <u>Component</u> | <u>Amount</u> |
|--|------------------|
| a. Service Cost | \$ 111,586 |
| b. Interest on the Total OPEB Liability | 44,251 |
| c. Differences between Expected and Actual Experience | 68,048 |
| d. Changes of Assumptions | (137,436) |
| e. Employee Contributions | 0 |
| f. Projected Earnings on OPEB Plan Investments | 0 |
| g. Differences between Projected and Actual Earnings on Plan Investments | 0 |
| h. OPEB Plan Administrative Expenses | 0 |
| i. Other Changes in Fiduciary Net Position | 0 |
| j. Other Changes in Total OPEB Liability | 0 |
| | <hr/> |
| Total OPEB Expense | \$ 86,449 |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Municipal Water Finance Authority (WFA)

OPEB Expense, Deferred Outflows of Resources, Deferred Inflows of Resources

| | Fiscal Year Ending June 30, 2016 | | Fiscal Year Ending June 30, 2017 | | Fiscal Year Ending June 30, 2018 | | Fiscal Year Ending June 30, 2019 | | Fiscal Year Ending June 30, 2020 | | Fiscal Year Ending June 30, 2021 | | Fiscal Year Ending June 30, 2022 | |
|--|----------------------------------|-----------------|----------------------------------|-------------------|----------------------------------|------------------|----------------------------------|-------------------|----------------------------------|------------------|----------------------------------|-------------------|----------------------------------|-------------------|
| | <u>\$178,115</u> | | <u>\$108,914</u> | | <u>\$93,739</u> | | <u>\$141,604</u> | | <u>\$114,919</u> | | <u>\$133,108</u> | | <u>\$86,449</u> | |
| Recognized OPEB Expense | | | | | | | | | | | | | | |
| Deferred Resources | Outflows | Inflows | Outflows | Inflows | Outflows | Inflows | Outflows | Inflows | Outflows | Inflows | Outflows | Inflows | Outflows | Inflows |
| Differences between Expected and Actual Experience | \$ 0 | \$ 7,541 | \$ 0 | \$ 86,005 | \$ 0 | \$ 93,867 | \$ 504,689 | \$ 0 | \$ 0 | \$ 38,056 | \$ 0 | \$ 101,902 | \$ 292,744 | 0 |
| Changes of Assumptions | 0 | 0 | 0 | 198,257 | 30,848 | 0 | 0 | 296,315 | 28,817 | 0 | 0 | 30,660 | 0 | 549,915 |
| Total | \$ 0 | \$ 7,541 | \$ 0 | \$ 284,262 | \$ 30,848 | \$ 93,867 | \$ 504,689 | \$ 296,315 | \$ 28,817 | \$ 38,056 | \$ 0 | \$ 132,562 | \$ 292,744 | \$ 549,915 |

Amounts reported as Deferred Outflows of Resources and Deferred Inflows of Resources related to OPEB will be recognized in OPEB Expense as follows:

| Fiscal Year Ended June 30 | | | | | | | | | | | | | | |
|---------------------------|---------|--|------------|--|-----------|--|----------|--|-----------|--|------------|--|------------|--|
| 2016 | (\$913) | | | | | | | | | | | | | |
| 2017 | (913) | | (\$34,414) | | | | | | | | | | | |
| 2018 | (913) | | (34,414) | | (\$8,174) | | | | | | | | | |
| 2019 | (913) | | (34,414) | | (8,174) | | \$27,746 | | | | | | | |
| 2020 | (913) | | (34,414) | | (8,174) | | 27,746 | | (\$1,251) | | | | | |
| 2021 | (913) | | (34,414) | | (8,174) | | 27,746 | | (1,251) | | (\$15,800) | | | |
| 2022 | (913) | | (34,414) | | (8,174) | | 27,746 | | (1,251) | | (15,800) | | (\$36,582) | |
| 2023 | (913) | | (34,414) | | (8,174) | | 27,746 | | (1,251) | | (15,800) | | (36,582) | |
| 2024 | (913) | | (34,414) | | (8,174) | | 27,746 | | (1,251) | | (15,800) | | (36,582) | |
| 2025 | (237) | | (34,414) | | (8,174) | | 27,746 | | (1,251) | | (15,800) | | (36,582) | |
| 2026 | | | (8,950) | | (5,801) | | 27,746 | | (1,251) | | (15,800) | | (36,582) | |
| 2027 | | | | | | | 14,152 | | (1,251) | | (15,800) | | (36,582) | |
| 2028 | | | | | | | | | (482) | | (15,800) | | (36,582) | |
| 2029 | | | | | | | | | | | (15,800) | | (36,582) | |
| 2030 | | | | | | | | | | | (6,162) | | (1,097) | |

NEW YORK CITY HEALTH BENEFITS PROGRAM

Governmental Accounting Standards Board Statements No. 75 (GASB 75)

New York City Municipal Water Finance Authority (WFA)

OPEB Expense, Deferred Outflows of Resources, Deferred Inflows of Resources

For the Fiscal Year ended June 30, 2022, WFA recognized OPEB Expense of \$86,449.

At June 30, 2022, WFA reported total Deferred Outflows of Resources and Deferred Inflows of Resources related to OPEB from the following sources:

| | Deferred Outflows of Resources | Deferred Inflows of Resources |
|--|---|--|
| Differences between Expected and Actual Experience | \$ 595,827 | \$ 198,687 |
| Changes of Assumptions | <u>35,863</u> | <u>833,115</u> |
| Total | <u><u>\$ 631,690</u></u> | <u><u>\$ 1,031,802</u></u> |

Amounts reported as Deferred Outflows of Resources and Deferred Inflows of Resources related to OPEB will be recognized in OPEB Expense as follows:

| Fiscal Year Ended <u>June 30</u> | <u>Amount</u> |
|--|---------------|
| 2022 | \$ (69,388) |
| 2023 | (69,388) |
| 2024 | (69,388) |
| 2025 | (68,712) |
| 2026 | (40,638) |
| 2027 | (39,481) |
| 2028 | (52,864) |
| 2029 | (52,382) |
| 2030 | (7,259) |

SECTION V - CERTIFICATION

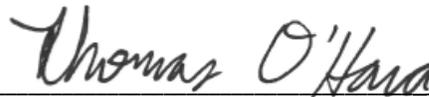
In the opinion of the undersigned actuaries, the actuarial assumptions used are reasonable and appropriate for purposes of measurement of the obligations under GASB74 and 75 contained herein. The cost results and actuarial exhibits presented in this Report were determined on a consistent and objective basis in accordance with applicable Actuarial Standards of Practice and generally accepted actuarial procedures. To the best of the knowledge of the undersigned, the information fairly presents the actuarial position of the postretirement benefits under the City's Health Benefits Program in accordance with the requirements of GASB Statements No. 74 and 75 as of June 30, 2022.

Future actuarial measurements may differ significantly from current measurements due to, but not limited to, the following factors: retiree group benefits program experience differing from that anticipated by the assumptions, changes in assumptions, changes 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 regulations. Small variations in approximations and estimates may lead to significant changes in actuarial measurements. An analysis of the potential range of such future differences other than the required disclosures related to the sensitivity to discount rate and healthcare cost trend rate assumptions is beyond the scope of this Report.

The actuaries whose signatures appear below are Members of the American Academy of Actuaries (AAA) and, together, meet the Qualification Standards of the AAA to render this Statement of Actuarial Opinion.



Melissa Chacko, FSA, EA, MAAA
Deputy Chief Actuary
New York City Office of the Actuary



Thomas O'Hara, ASA, MAAA
Administrative Actuary
New York City Office of the Actuary

SECTION VI - SUMMARY OF PLAN PROVISIONS

Plan Sponsor: New York City. The valuation includes results for the Component Units, HHC, NYCHA, SCA, and WFA that participate under the same Plan terms. In addition, the valuation includes results for ECF, which participates in the New York State Health Insurance Program (NYSHIP), described later in this section.

Plan Name: New York City Health Benefits Program (Program)

Eligibility

City Retirees can participate if they satisfy one of the following criteria:

Retirees

- At least 10 years of credited service as a member of the NYCRS (five years of credited service if employed on or before December 27, 2001; 15 years of service if a member of TRS or BERS, represented by the United Federation of Teachers and employed after April 27, 2010; no service requirement for accidental disability retirements) and be working at least 20 hours a week at termination of active service, plus
- Receives a pension check from the NYCRS (or is eligible for certain Deferred Retirement benefits). Payability date varies by NYCRS and group.

Terminated Vested Members

- The same as Retirees once in receipt of a pension benefit.

Members Eligible for Certain Deferred Retirement Benefits

- Certain members of NYCERS, TRS, and BERS who have at least 20 years of credited service are eligible for up to five years of OPEB coverage prior to commencement of pension benefits.

Members Terminated for Other than Immediate Retirement

- Members who do not have retiree medical coverage under the retiree medical provisions are eligible to continue coverage under COBRA provisions. COBRA continuation coverage is generally limited to certain maximum periods

(i.e., generally to the end of 36 months under New York State insurance law).

Spouses and Other Dependents

- Spouses of retirees are covered. Children of retirees are covered to age 26, or longer if disabled. Dependent coverage is terminated when a retiree dies, except in the following situations:
- Lifetime coverage is provided to the surviving spouse or domestic partner, and to children up to age 26 of uniformed members of the Police or Fire Departments who die in the Line of Duty.
- Effective November 13, 2001, other surviving spouses of retired uniformed members of the Police and Fire Departments may elect to continue coverage for life by paying 102% of the stated premium.
- Effective August 31, 2010, surviving spouses of retired uniformed members of the Departments of Correction and Sanitation may elect to continue coverage for life by paying 102% of the stated premium.

ECF

Retirees

- Age 55 with 10 years of service.
- Employees who retire after 1995 are also eligible for dental coverage.

Terminated Vested Members

- 10 years of service, benefit commences upon retirement.

Disability Retirement

- 10 years of service

Spouses and Other Dependents

- OPEB continue for dependents after the death of the retiree.

CUNY/TIAA

Retirees

- Hired before July 1, 1976: Age 55 with 10 years of service.
- Hired on or after July 1, 1976: Age 62 with 15 years of service.

Exception for Executive Compensation Plan (ECP) employees:
Age 55 with 10 years of service.

Terminated Vested Members

- Hired before July 1, 1976: Age 55 with 15 years of service.
- Hired between July 1, 1976 and August 31, 1985: Age 62 with 10 years of service and no subsequent full-time employment at another college, university, or institution of post-secondary education.
- Hired on or after September 1, 1985: Age 62 with 15 years of service and no subsequent full-time employment at another college, university, or institution of post-secondary education.

Exception for ECP Employees: Age 55 with 10 years of service and no subsequent full-time employment at another institution of post-secondary education.

Disability Retirement

- 10 years of service and receiving a benefit from the Optional Retirement Program of TIAA.

Covered Benefits

The City including CUNY/TIAA and certain Component Units provide OPEB through the Program. In addition, the City provides certain Program benefits through the Stabilization Fund. The City and certain Component Units contribute to various Welfare Funds, generally negotiated with and administered by various labor organizations. The City and certain Component Units also reimburse Medicare Part B Premiums paid by eligible retirees and other eligible beneficiaries.

OPEB Coverage by Agency: The City subsidizes only some of the OPEB for various groups of NYCERS retirees.

The table below presents, by payroll agency, those benefits assumed to be provided by the City for purposes of the FY 2022 OPEB valuation. There is no change in coverage from the prior OPEB valuation.

For the Component Units included in the OPEB valuation, the benefit categories not paid by the City are reflected in the results of the individual Component Units (i.e., Payroll Agencies in bold below).

**New York City Retirement Systems
Components of Postretirement Medical Benefits Paid By New York City**

| Payroll Agency | Health Insurance | Welfare Fund ¹ | Medicare Part B |
|--------------------------------------|-------------------------|----------------------------------|------------------------|
| Charter Schools | Yes | Yes | Yes |
| Custodial Engineer | Yes | Yes | Yes |
| CUNY - Senior Colleges | No ² | Yes ³ | Yes |
| CUNY - Community Colleges | Yes | Yes | Yes |
| Correction Department | Yes | Yes | Yes |
| CP Engineers | No ² | No | No |
| Courts (State) | Yes | Yes | Yes |
| DA Investigators | Yes | Yes | Yes |
| Department of Education | Yes | Yes | Yes |
| HSG Develop Corp | No | No | No |
| Health and Hospital Corp | No² | No | Yes |
| Housing Authority | No² | No | No² |
| Housing Police (Retirees Only) | Yes | Yes | No ² |
| Regular | Yes | Yes | Yes |
| REMIC | NA | NA | NA |
| Sanitation | Yes | Yes | Yes |
| School Construction Authority | Yes | No | Yes |
| State Housing | No | No | No |
| Transit Authority | No ² | No | No |
| Transit Police (Retirees Only) | Yes | Yes | Yes |
| Triboro Bridge | No | No | No |
| Water Finance Authority | No² | No | Yes |
| POLICE | Yes | Yes | Yes |
| FIRE | Yes | Yes | Yes |
| TIAA - Senior Colleges | No ² | No | Yes |
| TIAA - Community Colleges | Yes | Yes | Yes |
| ECF | No | No | No |
| LOD Survivors | Yes | No | Yes |

¹ Welfare Fund coverage not available to pre-1/1/1971 retirees. LOD death beneficiary coverage provided through Stabilization Fund.

² The City pays these benefits upfront, not out of the NYCRHBT, and then is reimbursed.

³ The City pays the Welfare Fund for non-pedagogical CUNY Senior Colleges retirees.

Health Insurance

The City and certain Component Units currently provide Basic Medical Coverage (Basic Coverage) at no cost if a non-Medicare-eligible retiree participates in HIP HMO or GHI/EBCBS indemnity arrangement, or a Medicare-eligible retiree participates in HIP HMO or GHI/EBCBS Senior Care. Basic Coverage includes hospital and physician coverage and excludes coverage for prescription drugs.

GHI/EBCBS Senior Care coordinates with Medicare Part A and Medicare Part B on a supplemental basis. Under the HIP HMO, Medicare-eligible retirees generally participate in a

Medicare Advantage Plan under Medicare Part C. Cost sharing provisions (e.g., deductibles, co-payments) are assumed to change over time to contain the overall cost of coverage.

Basic Coverage under other plans may require additional retiree contributions.

Other plans available to non-Medicare-eligible retirees include Aetna EPO, CIGNA, Empire HMO, Empire EPO, GHI HMO, MetroPlus, and Vytra Health Plans.

Other plans available to Medicare-eligible retirees include Medicare supplemental plans, such as Empire Medicare-Related Coverage and various Medicare Advantage arrangements (e.g., MediBlue).

Retirees of the Component Units included in this valuation, other than ECF, have the same coverage as City retirees. It is the understanding of the OA that ECF retirees are covered by NYSHIP.

Retirees may waive Basic Coverage.

The City and the Component Units do not provide the same individual with both subscriber and dependent coverage.

Medicare Part B Premium Reimbursement

Upon application, the City and certain Component Units reimburse the Medicare Part B Premium for all Medicare-eligible retirees and eligible covered dependents. The reimbursement includes the base Part B premium and any additional premium charged to high-income retirees via the Income Related Monthly Adjustment Amounts (IRMAA).

Welfare Funds

The City and certain Component Units pay the required annual per capita contributions directly to the various Welfare Funds that cover retirees for certain health care benefits not provided through the Basic Coverage. Welfare Fund benefits may include, but are not limited to, prescription drug, vision, and dental coverage, sometimes with dollar limits. In addition, the Welfare Funds provide non-health related benefits such as life insurance, accidental death, disability benefits, legal services, and short or long-term disability benefits. The Welfare Funds are generally separate legal entities, often administered by various labor organizations. Information on the Welfare Funds is available in a Special Report issued by the Office of the Comptroller (Comptroller Report).¹

Contributions are sometimes made for active employees to Welfare Funds that are combined with retirees. Alternatively, contributions are made to separate retiree only funds. The Welfare Funds' per capita contributions apply only to retirees and not to covered dependents even

¹ Analysis of the Financial and Operating Practices of Union-Administered Benefit Funds with Fiscal Years Ending in Calendar Year 2019, issued January 25, 2022, https://comptroller.nyc.gov/wp-content/uploads/documents/FN20_118S.pdf

though a particular Fund may choose to extend its coverage to dependents. The contributions for retirees are generally made only on behalf of individuals who retired in or after 1971. In recent years, a portion of the Welfare Fund contributions has been reimbursed by the Stabilization Fund. The valuation includes Welfare Fund contributions whether they come from the Stabilization Fund or directly from the City or Component Units.

The per capita contribution amounts change periodically based on negotiated contract provisions. In addition to prospective increases, the collective bargaining agreements have provided for ad hoc lump-sum payment amounts to the Welfare Funds. The valuation assumes that the contribution amount to the Welfare Funds will increase at the Welfare Plan trend rates.

Stabilization Fund

The City maintains and has historically contributed to the Stabilization Fund. Certain Component Units are understood to have contributed to the Stabilization Fund in situations where the GHI/EBCBS premiums paid would be lower than the HIP benchmark premium. In addition, the Stabilization Fund receives dividends from participating insurance carriers including the GHI/EBCBS arrangement.

The Stabilization Fund has been used to provide the following health related benefits:

- A GHI Home Care benefit for certain non-Medicare participants.
- Welfare Fund contributions for the Line-of-Duty beneficiaries. In addition, the Stabilization Fund has reimbursed the City, various Component Units, and other entities participating in the Program for a portion of Welfare Fund contributions.
- Injectables and Chemotherapy Drug plan for certain non-Medicare participants.
- Utilization review for the GHI/EBCBS arrangement, provided by the New York County Health Services Review Organization.
- Healthline (Intracorp) providing pre-certification of hospitalization for GHI/EBCBS participants.

ECF Coverage

NYSHIP health benefits consist of a hospital program, medical program covering amounts after copayment at participating providers, managed mental health and substance abuse program, and card-based prescription drug program. NYSHIP requires retirees to enroll in Medicare Part A and Medicare Part B, and mandates that participants be reimbursed for Medicare Part B Premiums. NYSHIP provides drug coverage to Medicare eligible participants through a Medicare Part D Employer Group Waiver Plan (EGWP).

SECTION VII - ACTUARIAL ASSUMPTIONS AND METHODS

General

Basis for Assumptions

The actuarial assumptions used in the FY 2022 OPEB valuation are a combination of the demographic assumptions used in the NYCERS pension actuarial valuations and certain OPEB- specific assumptions, as detailed below.

For FY 2019, the OA conducted a full review of the actuarial assumptions and methods used to fund the NYCERS. These recommendations were adopted by all five of the NYCERS Boards and referred to as the 2019 A&M Reports. On July 27, 2021, the Chief Actuary issued a memorandum that amended certain assumptions and methods from the 2019 A&M. This revised set of actuarial assumptions and methods are referred to as the “Revised 2021 A&M.”¹

NYCERS

The NYCERS’ demographic assumptions (e.g., mortality, withdrawal, retirement and disability rates) and salary scale are the same as those used in the NYCERS pension actuarial valuations and are unchanged from the prior valuation.

CUNY/TIAA

CUNY/TIAA demographic assumptions are the same as those used for the TRS Pension Actuarial Valuation except for withdrawal and retirement rates which are based on a separate CUNY valuation performed by Buck and summarized below:

¹ The “2019 A&M” and “Revised 2021 A&M” reports are available on the Reports page of the OA website (www.nyc.gov/actuary)

| Years of Service | Withdrawal | Age | Retirement |
|-------------------------|-------------------|------------|-------------------|
| 0 | 15.0% | 55 | 2.0% |
| 1 | 12.0% | 56 | 2.0% |
| 2 | 11.0% | 57 | 2.0% |
| 3 | 10.0% | 58 | 2.0% |
| 4 | 9.0% | 59 | 2.0% |
| 5 | 7.0% | 60 | 3.0% |
| 6 | 6.0% | 61 | 3.0% |
| 7 | 6.0% | 62 | 4.0% |
| 8 | 6.0% | 63 | 5.0% |
| 9 | 4.0% | 64 | 6.0% |
| 10 | 4.0% | 65 | 10.0% |
| 11 | 3.0% | 66 | 5.0% |
| 12 | 3.0% | 67 | 5.0% |
| 13 | 2.0% | 68 | 5.0% |
| 14-19 | 2.0% | 69 | 10.0% |
| 20+ | 1.0% | 70 | 100.0% |

The CUNY/TIAA OPEB valuation also assumes:

- Terminated employees with the required number of years of service for eligibility have no subsequent full-time employment at another college, university, or institution of post-secondary education.
- CUNY/TIAA participants maintain any required TIAA account balances and annuity benefits

ECF

The ECF assumptions are based on the 2020 State Report and are summarized separately.

| | |
|------------------------------|---|
| Actuarial Cost Method | Entry Age Normal cost method, level percent of pay calculated on an individual basis. |
| Valuation Date | June 30, 2021 |
| Measurement Date | June 30, 2022 |
| Asset Valuation | Market value of assets. |

Discount Rate

Results as of the June 30, 2022 Measurement Date are presented at 4.09% for benefits provided by the City and Component Units. Results as of the June 30, 2021 Measurement Date are presented at 2.19% for benefits provided by the City, and 2.18% for Component Units.

The projection of cash flows used to determine the discount rate assumed that the City will contribute at a rate equal to the pay-as-you-go amounts. It is assumed that the City will not make additional contributions in excess of the pay-as-you-go amounts, which is unchanged from the prior valuation. The contributions apply first to service cost of future Plan members based on projection of overall payroll at 3.0% and normal cost rate for Tier 6 members of each of the NYCERS. Remaining contributions are applied to the current and past service costs for current Plan members.

Based on those assumptions, the City's OPEB Plan's fiduciary net position was projected to be available to make all projected OPEB payments for current active and inactive employees until 2029. After that time, benefit payments will be funded on a pay-as-you-go basis. The discount rate is the single equivalent rate which results in the same actuarial present value as discounting future benefit payments made from assets at the long-term expected rate of return and discounting future benefit payments funded on a pay-as-you-go basis at the Municipal Bond 20-Year Index Rate.

This projection resulted in no difference between the Municipal Bond 20-Year Index Rate and the blended discount rate.

Results for the OPEB Plans for Component Units for both FY 2021 and FY 2022 are presented using a discount rate equal to the Municipal Bond 20-Year Index Rate, since there is no pre-funding assumed for these plans.

**Long-Term
Expected Rate of
Return**

4.00% net of investment expenses, which includes an inflation rate of 2.50%.

The long-term rate of return is based on the NYCRHBT's investment policy and was determined using a building-block method in which best-estimate ranges of expected future real rates of return (i.e., expected returns, net of investment expense and inflation) are developed separately from assumed inflation.

| Asset Class | Target Allocation as of June 30, 2022 | Long-Term Expected Real Rate of Return |
|------------------------------|--|---|
| Cash and cash equivalents | 100% | 1.50% |

Nominal long-term expected rates of return for these assets are equal to the sum of the above expected long-term real rate and the expected long-term inflation rate of 2.50%.

We have made no adjustments to the expected rate of return to reflect the recent increases in inflation due to the long-term nature of the assumption and uncertainty around the long-term impact. The OA will continue to monitor these effects and economic forecasts.

**Municipal Bond
20-Year Index
Rate**

S&P Municipal Bond 20-Year High Grade Rate Index, which was 4.09% as of June 30, 2022 and 2.18% as of June 30, 2021.

**Consumer Price
Index**

2.50%

**General Wage
Increases**

3.00% per annum which includes an inflation rate of 2.50% and a general wage increase rate of 0.50%. For more information see the Revised 2021 A&M Reports.

Assumed Healthcare Cost Trend Rate (HCCTR)

| Fiscal Year Ending | Pre-Medicare Plans | Medicare Plans | Medicare Part B Premiums | Welfare Fund Contributions |
|---------------------------|---------------------------|-----------------------|---------------------------------|-----------------------------------|
| 2022 | 6.50% | 4.90% | 5.29% ¹ | 3.50% |
| 2023 | 6.25% | 4.80% | 5.00% | 3.50% |
| 2024 | 6.00% | 4.80% | 5.00% | 3.50% |
| 2025 | 5.75% | 4.70% | 5.00% | 3.50% |
| 2026 | 5.50% | 4.70% | 5.00% | 3.50% |
| 2027 | 5.25% | 4.60% | 5.00% | 3.50% |
| 2028 | 5.00% | 4.60% | 5.00% | 3.50% |
| 2029 | 4.75% | 4.50% | 5.00% | 3.50% |
| 2030 and Later | 4.50% | 4.50% | 5.00% | 3.50% |

¹ Reflects actual calendar year premium for the first six months of FY 2022 (July 2022 to December 2022) and 5.0% trend for the remaining 6 months.

The pre-Medicare and Medicare plan trends were developed using health trend information from various sources, including City premium trend experience for HIP HMO and GHI/EBCBS, public sector benchmark survey for other large plan sponsors, the Medicare Trustees’ Report, and the SOA Getzen model.

In recent years Medicare Part B premium increases have averaged between 4% and 6%, ignoring the impact of the hold harmless provision. These increases can be attributable to factors such as the increasing prices of health care services, high cost of new technologies, and increasing utilization. While the Medicare trustees project the Part B premium will remain flat for 2023, beyond that point they expect the increases to average 5.4% out to 2031. These increases do not account for the hold harmless provision which may mitigate them somewhat.

Historical negotiated increase rates for the larger Welfare funds have averaged below 2% in recent years, which is lower than the anticipated trend on the underlying costs of benefits provided by these funds. However, the City periodically makes one-time lump sum contributions to the Welfare Funds. For these reasons the Welfare Fund contribution trend was assumed to be 3.5%.

Dependent Coverage

Non-contributory Basic Medical Coverage and Part B premium reimbursement for dependents are assumed to terminate when a retiree dies, except for Line of Duty beneficiaries. Certain other survivors of POLICE, FIRE, and uniformed members of the Departments of Correction and Sanitation are eligible for a lifetime COBRA continuation benefit. These individuals contribute 102% of the

premium but the valuation includes an additional estimated cost above the value of their COBRA contribution because COBRA participants typically utilize services at a much higher rate than active participants. The valuation assumes that 30% of eligible spouses will elect the lifetime continuation benefit.

Dependents

Certain dependent related assumptions have been updated since the prior valuation to reflect more recent experience.

Spousal Age Difference

Male retirees were assumed to be four years older than their wives, and female retirees were assumed to be two years younger than their husbands; for POLICE and FIRE participants, husbands are assumed to be two years older than their wives. This assumption is unchanged from the prior valuation.

Child Dependents

Child dependents of current retirees are assumed to receive coverage until age 26.

Children are assumed to be covered after retirement for the number of years shown below. The average dependent Coverage Period assumption has been updated since the prior valuation to reflect more recent experience.

| NYCRS Group | FY 2022 | FY 2021 |
|-----------------------|----------------|----------------|
| NYCERS - Service Only | 8 years | 8 years |
| NYCERS - HHC | 10 years | 8 years |
| NYCERS - NYCHA | 10 years | 8 years |
| NYCERS – All Others | 8 years | 8 years |
| TRS | 7 years | 8 years |
| BERS | 7 years | 8 years |
| POLICE | 11 years | 13 years |
| FIRE | 11 years | 13 years |
| TIAA | 7 years | 8 years |

Dependent Coverage Tier

These assumptions have been updated since the prior valuation to reflect more recent experience, including the dependent coverage tier assumption in the event of the accidental death; the assumption for POLICE and FIRE is now equal to the general assumptions, respectively.

| DEPENDENT COVERAGE ASSUMPTIONS | | | | | | | | |
|---------------------------------------|---------------------|-----------------------|-----------------------|------------|-------------|---------------|-------------|-------------|
| Group | NYCERS - HHC | NYCERS - NYCHA | NYCERS - Other | TRS | BERS | POLICE | FIRE | TIAA |
| FY 2022 | | | | | | | | |
| Male | | | | | | | | |
| - Single Coverage | 43% | 36% | 35% | 45% | 44% | 17% | 12% | 45% |
| - Spouse/No Child | 38% | 40% | 35% | 30% | 40% | 10% | 18% | 30% |
| - Child/No Spouse | 4% | 6% | 8% | 5% | 4% | 13% | 10% | 5% |
| - Spouse and Child | 15% | 18% | 22% | 20% | 12% | 60% | 60% | 20% |
| Female | | | | | | | | |
| - Single Coverage | 62% | 75% | 67% | 57% | 60% | 45% | 12% | 57% |
| - Spouse/No Child | 28% | 15% | 22% | 30% | 35% | 7% | 18% | 30% |
| - Child/No Spouse | 5% | 8% | 7% | 5% | 2.5% | 33% | 10% | 5% |
| - Spouse and Child | 5% | 2% | 4% | 8% | 2.5% | 15% | 60% | 8% |
| FY 2021 | | | | | | | | |
| Male | | | | | | | | |
| - Single Coverage | 40% | 35% | 35% | 50% | 45% | 15% | 10% | 55% |
| - Spouse/No Child | 40% | 35% | 35% | 30% | 45% | 10% | 20% | 40% |
| - Child/No Spouse | 5% | 10% | 5% | 5% | 2% | 10% | 5% | 2.5% |
| - Spouse and Child | 15% | 20% | 25% | 15% | 8% | 65% | 65% | 2.5% |
| Female | | | | | | | | |
| - Single Coverage | 70% | 75% | 70% | 60% | 60% | 45% | 10% | 55% |
| - Spouse/No Child | 20% | 15% | 20% | 30% | 35% | 10% | 20% | 40% |
| - Child/No Spouse | 5% | 8% | 5% | 5% | 2.5% | 25% | 5% | 2.5% |
| - Spouse and Child | 5% | 2% | 5% | 5% | 2.5% | 20% | 65% | 2.5% |

Note: For Line-of-Duty, 97% are assumed to have Single Coverage in FY 2022

Active Off Payroll (AOP) Liabilities

Active members off payroll is no longer treated as a separate status as of June 30, 2020. Those on a known short-term leave of absence are treated as actives, and the remaining members are included as inactive members entitled to but not yet receiving benefits if they have met the OPEB vesting requirements. Otherwise, they are not included in the valuation.

Health Plan Participation Rates

Plan participation assumptions have been updated since the prior valuation to reflect more recent experience.

Non-Filers

For current retirees who appear to be eligible for health coverage but have not made an election (i.e., non-filers), the valuation reflects single GHI/EBCBS coverage and Part B premium benefits only, to approximate the obligation if these individuals were to file for coverage. For future retirees, the portion assumed not to file for future benefits and is valued similarly to current retirees, are as follows.

| NYCRS Group | FY 2022 | FY 2021 |
|--------------------|----------------|----------------|
| NYCERS – HHC | 13% | 13% |
| NYCERS – NYCHA | 13% | 13% |
| NYCERS – Others | 13% | 10% |
| TRS | 13% | 6% |
| BERS | 15% | 12% |
| POLICE | 3% | 1% |
| FIRE | 3% | 2% |
| TIAA | 13% | 0% |

This non-filer group also includes some participants who do not qualify for coverage because they were working less than 20 hours a week at termination.

Current and Future Retiree Elections

Actual elections are used for current retirees. Some current retirees not eligible for Medicare are assumed to change elections upon attaining age 65 based on election patterns of Medicare-eligible retirees. See SECTION VIII, Table VIII-a Health Plan Elections.

Detailed assumptions for future retirees are presented below.

| HEALTH PLAN PARTICIPATION ASSUMPTIONS | | | | | | | | |
|--|---------------------|-----------------------|-----------------------|------------|-------------|---------------|-------------|-------------|
| Benefits | NYCERS – HHC | NYCERS – NYCHA | NYCERS – Other | TRS | BERS | POLICE | FIRE | TIAA |
| FY 2022 | | | | | | | | |
| Pre-Medicare | | | | | | | | |
| - GHI/EBCBS | 75% | 70% | 75% | 83% | 70% | 87% | 87% | 83% |
| - HIP HMO | 18% | 24% | 18% | 6% | 16% | 7% | 7% | 6% |
| - Other HMO | 2% | 2% | 2% | 1% | 2% | 3% | 4% | 1% |
| - Waiver | 5% | 4% | 5% | 10% | 12% | 3% | 2% | 10% |
| Medicare | | | | | | | | |
| - GHI | 75% | 75% | 75% | 89% | 80% | 82% | 81% | 89% |
| - HIP HMO | 16% | 16% | 16% | 5% | 13% | 8% | 9% | 5% |
| - Other HMO | 5% | 5% | 5% | 2% | 2% | 8% | 8% | 2% |
| - Waiver | 4% | 4% | 4% | 4% | 5% | 2% | 2% | 4% |
| Post-Medicare Migration | | | | | | | | |
| - Other HMO to GHI | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| - HIP HMO to GHI | 10% | 33% | 0% | 20% | 20% | 0% | 0% | 20% |
| - GHI to HIP HMO | 0% | 0% | 0% | 0% | 0% | 0% | 2% | 0% |
| - GHI to Other HMO | 0% | 0% | 0% | 0% | 0% | 6% | 5% | 0% |
| - HIP HMO to Other HMO | 0% | 0% | 10% | 0% | 0% | 0% | 0% | 0% |
| - Pre-Med. Waiver | | | | | | | | |
| - To GHI @ 65 | 30% | 0% | 0% | 50% | 60% | 0% | 0% | 50% |
| - To HIP HMO @ 65 | 10% | 0% | 0% | 10% | 0% | 20% | 0% | 10% |
| - To Other HMO @ 65 | 0% | 0% | 20% | 0% | 0% | 10% | 0% | 0% |

HEALTH PLAN PARTICIPATION ASSUMPTIONS (Cont'd)

| Benefits | NYCERS - HHC | NYCERS - NYCHA | NYCERS - Other | TRS | BERS | POLICE | FIRE | TIAA |
|-------------------------|-------------------------|---------------------------|---------------------------|------------|-------------|---------------|-------------|-------------|
| FY 2021 | | | | | | | | |
| Pre-Medicare | | | | | | | | |
| - GHI/EBCBS | 72% | 65% | 72% | 80% | 70% | 85% | 80% | 90% |
| - HIP HMO | 20% | 26% | 20% | 8% | 16% | 9% | 12% | 6% |
| - Other HMO | 4% | 4% | 4% | 2% | 2% | 4% | 6% | 4% |
| - Waiver | 4% | 5% | 4% | 10% | 12% | 2% | 2% | 0% |
| Medicare | | | | | | | | |
| - GHI | 72% | 72% | 72% | 90% | 78% | 85% | 80% | 90% |
| - HIP HMO | 20% | 20% | 20% | 6% | 16% | 9% | 12% | 6% |
| - Other HMO | 4% | 4% | 4% | 2% | 2% | 4% | 6% | 4% |
| - Waiver | 4% | 4% | 4% | 2% | 4% | 2% | 2% | 0% |
| Post-Medicare Migration | | | | | | | | |
| - Other HMO to GHI | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| - HIP HMO to GHI | 0% | 23% | 0% | 25% | 0% | 0% | 0% | 0% |
| - GHI to HIP HMO | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| - GHI to Other HMO | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| - HIP HMO to Other HMO | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| - Pre-Med. Waiver | | | | | | | | |
| - To GHI @ 65 | 0% | 10% | 0% | 40% | 67% | 0% | 0% | 0% |
| - To HIP HMO @ 65 | 0% | 10% | 0% | 40% | 0% | 0% | 0% | 0% |
| - To Other HMO @ 65 | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

Disability on Medicare

For future disability retirements, Medicare is assumed to start 2.5 years after retirement for the following portion of retirees.

| NYCRS Group | FY 2022 | FY 2021 |
|--------------------|----------------|----------------|
| NYCERS - HHC | 38% | 40% |
| NYCERS - NYCHA | 38% | 40% |
| NYCERS - Others | 38% | 40% |
| TRS | 45% | 55% |
| BERS | 45% | 50% |
| POLICE | 13% | 15% |
| FIRE | 11% | 15% |
| TIAA | 45% | 45% |

This assumption was updated since the prior valuation to reflect more recent experience.

Per Capita Claim Costs

GHI/EBCBS plans are insured via a Minimum Premium arrangement while the HIP and many of the Other HMOs are community-rated. Costs reflect age-adjusted premiums for all plans.

Initial monthly premium rates used in the FY 2021 and FY 2022 valuations are shown below:

| Plan | Monthly Costs @ Average Age | |
|-------------------------------|------------------------------------|----------------|
| | FY 2022 | FY 2021 |
| HIP HMO | | |
| Non-Medicare Single | \$ 819.68 | \$ 776.01 |
| Non-Medicare Family | 2,008.22 | 1,901.23 |
| Medicare | 190.47 | 181.58 |
| GHI/EBCBS | | |
| Non-Medicare Single | 854.44 | 775.66 |
| Non-Medicare Family | 2,242.05 | 2,035.61 |
| Medicare | 201.80 | 194.14 |
| Other HMOs¹ | | |
| Non-Medicare Single | 1,242.93 | 1,160.34 |
| Non-Medicare Family | 3,440.67 | 2,701.42 |
| Medicare Single | 291.71 | 291.83 |
| Medicare Family | 580.41 | 576.92 |

¹Other HMO premiums represent the weighted average of the total premiums for medical (not prescription drug) coverage, including retiree contributions, of the HMO plans (other than HIP) based on actual enrollment.

Additionally, the individual monthly rates at age 65 used in the FY 2021 and FY 2022 valuations are shown below:

| Plan | Monthly Costs @ Age 65 | |
|--------------|------------------------|-------------|
| | FY 2022 | FY 2021 |
| HIP HMO | | |
| Non-Medicare | \$ 1,734.61 | \$ 1,748.12 |
| Medicare | 190.47 | 181.58 |
| GHI/EBCBS | | |
| Non-Medicare | 1,833.91 | 1,748.57 |
| Medicare | 192.08 | 191.63 |
| Other HMOs | Varies by system | |

The normative database used to adjust premium values to age 65 per capita cost was updated since the prior valuation.

Claims data was generally not provided to the OA for the HIP coverage or for Other HMOs. OLR provided a copy of the claims component of the FY 2022 GHI/EBCBS renewals. For the non-Medicare participants, retiree claims were not separated from active claims. The claims information provided was compared to the premium rates provided.

The premium rate for the HIP Medicare HMO was indicated to be \$7.50/month per person based on the assumption that the MA plan would be implemented in FY 2022. HIP clarified that given the uncertainty surrounding the implementation of the MA plan, the renewal rate was likely to be comparable to the prior year’s rate of \$181.58. As such, the FY 2022 valuation assumed the prior year’s rate of \$181.58 with trend.

Based on information provided by OLR, estimates of margins that had been included in the premiums but expected to be refunded were removed from both the GHI and EBCBS non-Medicare and Medicare premiums before age adjustment.

A retiree who elects Basic Coverage other than the benchmark HIP and GHI/EBCBS plans is required to contribute the full difference in cost. The OA confirmed, based on data provided by OLR, that net employer premiums were consistent with the benchmark rates and stated policy regarding other coverage.

In valuing future retirees, the various monthly premium rates for Other HMOs were blended by proportion of enrollment.

Administrative Expenses

Assumed to be included in reported premium amounts.

Medicare Part B Premiums

| Calendar Year | Monthly Premium |
|----------------------|------------------------|
| 2017 | \$ 113.63 |
| 2018 | 125.85 |
| 2019 | 134.43 |
| 2020 | 143.21 |
| 2021 | 146.97 |
| 2022 | 167.82 |

Medicare Part B Premium reimbursement amounts have been updated to reflect actual premium rates announced for calendar years through 2022. Due to limited cost-of-living adjustments in Social Security benefits, some Medicare Part B participants will not be charged the Medicare Part B premium originally projected or ultimately announced for those years. Thus, the valuation uses a blended estimate as a better representation of future Part B premium costs.

For the FY 2022 OPEB valuation the annual premium used was \$1,888.80, which is equal to 12 times an average of the Calendar Year 2021 and 2022 monthly premiums above.

For Calendar Year 2022, the monthly premium of \$167.82 was determined as follows:

- 3.5% of the basic \$104.90 monthly hold-harmless amount, assuming that there would be no claims made for the slight increase in Part B premiums for continuing retirees, and
- 96.5% of the announced premium of \$170.10 for Calendar Year 2022, representing the proportion of the Medicare population that will pay the announced amount.

The Calendar Year 2021 monthly premium of \$146.97 was determined similarly, using 3.5% of the \$104.90 hold-harmless amount and 96.5% of the \$148.50 rate that was in effect for Calendar Year 2021.

An additional 11.4% load is added to the base Medicare Part B Premium amounts each year to account for the income-related Medicare Part B premiums for high income individuals. This assumption is unchanged from the prior valuation.

**Medicare Part B
Premium
Reimbursement**

90% of Medicare participants are assumed to claim reimbursement based on historical data.

Welfare Funds

It is the OA's understanding that the benefits provided from the Welfare Funds are adjusted from time to time so that costs to the Welfare Funds do not exceed available assets and income and further, that the benefit type and levels provided to retirees also differ from the benefits provided to active employees even within the same fund.

The OPEB valuation reflects the Welfare Fund contribution, which in turn is used to pay various premiums or claims for coverage provided by each of the funds. Such coverage could potentially vary by age and could involve various cross subsidies within the pool of each fund between active employees, non-Medicare retirees, and Medicare retirees. Under the Actuarial Standard of Practice that applies to OPEB valuations,¹ the valuation should reflect age-adjusted costs for pooled plans except in very limited cases. Factors to be considered include the purpose of the measurement, the existence and materiality of age-specific costs, and the sustainability of the premium structure should certain active or retiree groups cease to participate.

The OA has considered these factors and concluded that the cost of the Welfare Funds should be measured on a pooled basis. In particular, the OA has concluded that there is no significant cross subsidy between retiree and active benefits because the two groups are not generally pooled together. In addition, many of the benefits provided by the Welfare Fund, such as dental and vision coverage, do not vary significantly by age, thus any age-adjustment would be immaterial.

The Welfare Fund contribution reported as of the measurement date, June 30, 2022, (including any reported retroactive amounts) was trended back to the valuation date, June 30, 2021, using the Welfare trend assumption and used as the per capita cost for valuation purposes.

Reported annual contribution amounts for FY 2020 to FY 2022 are shown in SECTION VIII, Tables VIII-b to VII-f. Welfare Fund rates are based on actual reported Union Welfare Fund code for current retirees.

¹ Actuarial Standard of Practice, Number 6, *Measuring Retiree Group Benefits Obligations and Determining Retiree Group Benefits Program Periodic Cost or Actuarially Determined Contributions*.

Weighted average annual contribution rates used for future retirees, based on Welfare Fund enrollment of recent retirees, are shown in the following table.

| NYCRS | Average Contribution Rate | |
|--------|---------------------------|----------|
| | FY 2022 | FY 2021 |
| NYCERS | \$ 1,858 | \$ 1,894 |
| TRS | 1,763 | 1,824 |
| BERS | 1,907 | 1,932 |
| POLICE | 1,669 | 1,731 |
| FIRE | 1,721 | 1,780 |

Health Care Cost Savings Initiative

On December 27, 2021, OLR published a report on the actual savings generated through the 2018 health savings agreement, which exceeded the goal of \$1.1 billion^{1,2}. However, these savings did not result in any additional welfare fund contributions for FY2022 or any other changes that would impact retiree medical costs, thus there are no welfare or retiree medical related savings reflected in this valuation.

Age and Gender Related Morbidity

The premiums are age and gender adjusted for GHI/EBCBS, HIP, and Other HMOs. The assumed relative costs of coverage are consistent with information presented in the 2013 study *Health Care Costs - From Birth to Death*, sponsored by the Society of Actuaries.

For non-Medicare costs, a sample of factors used are:

| Age | Male | Female | Age | Male | Female |
|-----|-------|--------|-----|-------|--------|
| 20 | 0.170 | 0.225 | 45 | 0.355 | 0.495 |
| 25 | 0.146 | 0.301 | 50 | 0.463 | 0.576 |
| 30 | 0.181 | 0.428 | 55 | 0.608 | 0.671 |
| 35 | 0.227 | 0.466 | 60 | 0.783 | 0.783 |
| 40 | 0.286 | 0.467 | 64 | 0.957 | 0.917 |

Children costs assume a factor of 0.229.

¹ <https://www1.nyc.gov/assets/olr/downloads/pdf/collectivebargaining/health-benefits-agreement-fiscal-years-2019-2021.pdf>

² <https://www1.nyc.gov/assets/olr/downloads/pdf/collectivebargaining/savings-report-12-27-21.pdf>

Medicare costs prior to age 65 assume an additional disability-related morbidity factor. A sample of factors used are:

| Age | Male | Female | Age | Male | Female |
|-----|-------|--------|-----|-------|--------|
| 20 | 0.323 | 0.422 | 60 | 1.493 | 1.470 |
| 25 | 0.278 | 0.565 | 65 | 0.919 | 0.867 |
| 30 | 0.346 | 0.804 | 70 | 0.946 | 0.885 |
| 35 | 0.432 | 0.876 | 75 | 1.032 | 0.953 |
| 40 | 0.545 | 0.878 | 80 | 1.122 | 1.029 |
| 45 | 0.676 | 0.929 | 85 | 1.217 | 1.116 |
| 50 | 0.883 | 1.082 | 90 | 1.287 | 1.169 |
| 55 | 1.159 | 1.260 | 95 | 1.304 | 1.113 |
| | | | 99+ | 1.281 | 0.978 |

The age adjustment for the non-Medicare GHI/EBCBS premium reflects a reduction for the estimated margin anticipated to be returned of 4.0% and 2.0% in the GHI and EBCBS portion of the monthly premium, respectively.¹ Similarly, the age adjustment for the Medicare GHI/EBCBS premium reflects a reduction for the estimated margin anticipated to be returned of 4.0% and 3.0% in the GHI and ECBS portion of the monthly premium, respectively.²

COBRA

There is no cost to the City for COBRA beneficiaries who enroll in community-rated HMO's, including HIP, since these individuals pay their full community rate. However, there is a cost under the experience rated GHI/EBCBS coverage.

The valuation assumes 15% of employees not eligible for OPEB elect COBRA coverage for 15 months based on experience of other large employers. A lump-sum COBRA cost of \$1,475 was assumed for terminations during FY 2022. This amount is increased by the Pre-Medicare HCCTR for future years but is not adjusted for age-related morbidity.

Census data was not available for surviving spouses of POLICE, FIRE, Correction, nor Sanitation members who are entitled to lifetime COBRA continuation coverage because this benefit is administered directly by the insurance carriers. The number and obligation for the surviving spouses with lifetime coverage were estimated based on the current census data of POLICE and FIRE retirees and the projected number of deaths that would have occurred since the inception of this

¹ The non-Medicare GHI portion is \$391.39 out of \$854.44 for single coverage, and \$1,038.14 out of \$2,242.05 for family coverage for FY 2022 rates. The Non-Medicare EBCBS portion is the remainder of the premiums,

² The Medicare GHI portion is \$112.50 out of the \$201.80 for FY 2022 rates. The EBCBS portion is the remainder of the premium.

benefit on November 13, 2001 (and on August 31, 2010 for the Departments of Correction and Sanitation).

Stabilization Fund A 0.5% load is applied to the City's obligations to reflect certain benefits paid for retirees directly from the Stabilization Fund, which is a 0.1% increase from the FY 2021 OPEB valuation. The load is not applicable to Component Units.

This load is based on the historical five-year average allocation between active and retired participants in the FY 2018 through FY 2022 Stabilization Fund benefits provided by OLR. The allocation takes into consideration retirees on average are older and have costlier medical benefits than actives, and also separates out Welfare Fund contribution reimbursements from other Stabilization Fund benefits.

Also, since Welfare Fund contributions reimbursed by the Stabilization Fund are considered a part of Welfare Fund benefits, they are not included in the determination of this load.

Implicit Rate Subsidy The Implicit Rate Subsidy is the difference between the age-adjusted premiums approximating retiree claims costs and the actual cash premiums paid on behalf of retirees. It is assumed to be the additional cost for coverage of retirees that, in this case, had initially been allocated to active costs because the cash premiums do not vary by age of the covered individual.

The Implicit Rate Subsidy was estimated by the OA for the City, HHC and NYCHA directly from the assumptions and data used in the OPEB valuations, reflecting the amounts paid for Basic Coverage and amounts paid to the Stabilization Fund directly as cash premium costs in lieu of the benchmark HIP premium.

Other OPEB Coverage The OA understands that medical benefits not provided under the Basic Coverage, such as prescription drug coverage, may be provided through optional riders. These optional riders may provide separately rated coverage with stand-alone premiums. Alternatively, prescription drug coverage may be available on an integrated basis with medical coverage for the other HMOs, but in those situations, medical-only coverage is offered if the Welfare Plan offers drug coverage.

The cost of riders is either fully paid by the employees or retirees who enroll in that benefit or is provided through various Welfare Funds. Thus, the City does not directly pay for any of the premiums of these separately rated riders. As such, any implicit subsidy in the price of these separately rated riders is paid for by the active employees who

are assumed to pay more than the cost of their own rider coverage.¹ Thus, this valuation does not include any implicit subsidy on these separately rated riders.

It is the OA's understanding that no other OPEB, such as life insurance or long-term care benefits, are directly subsidized by the City through its general account.² The City and the Component Units (except CUNY/TIAA for certain retirees and ECF) generally provide most death and disability benefits through the NYCRS. Those benefits are measured as part of the obligations of the NYCRS and are not subject to GASB74 or GASB75.

Certain former New York State Court employees, who are covered by the City payment to NYSHIP, are not included in the OPEB valuation; the cash cost for these benefits paid from the Plan during FY 2022 was negligible.

**Subsequent
Events**

The City was expected to implement a new Medicare Advantage plan in FY 2022. However, as of June 30, 2022, the implementation has been delayed indefinitely, and is not reflected in this valuation.

¹ See discussion in questions 4.117 and 4.118 of Implementation Guide No. 2017-2, Financial Reporting for Postemployment Benefit Plans other than Pension Plans of GASB Statements 74 and 75. In particular, question 4.118 says "Only if the amounts expected to be paid by active employees exceed the expected claim costs, or the age-adjusted premiums approximating claim costs, on an ongoing basis can it be concluded that the active employees are subsidizing the inactive-plan member healthcare benefit."

² Such benefits may be funded through the Welfare Benefit Funds.

ECF

Basis for Assumptions

The demographic assumptions (e.g., mortality, withdrawal, retirement, and disability rates) and salary scale used for ECF are unchanged from the prior valuation. These assumptions are based on the latest available report "Development of Recommended Actuarial Assumptions for Other Post Employment Benefit Plans Actuarial Valuations Participating Agency Version," dated August 2021 for the valuation year beginning April 1, 2020, prepared by Aon (2020 State Report).

Since ECF employees and retirees participate in the New York State and Local Employees' Retirement System and the New York State Health Insurance Program (NYSHIP), the OA used the assumptions based on the recommendations of the 2020 State Report for this valuation.

Participation

All future retirees are assumed to continue to participate in the health and dental insurance programs.

Dependents

60% of males and 35% of females are assumed to cover a spouse at retirement.

Female dependent spouses are assumed to be three years younger than their husbands. Male dependent spouses are assumed to be two years older than their wives.

Per Capita Claims Costs

This valuation relies on the costs developed in the 2020 State Report which were assumed to be suitable for this purpose. The FY 2021 costs were projected with trend to FY 2022. The age 65 costs are:

| Plan | Annual Medical Costs @ Age 65 | |
|----------------------------|--------------------------------------|----------------|
| | FY 2022 | FY 2021 |
| Non-Medicare | \$ 22,400 | \$ 20,855 |
| Medicare (Reflecting EGWP) | 3,373 | 3,089 |

The premiums for dental coverage are:

| Tier | Monthly Dental Costs | |
|--------------|-----------------------------|----------------|
| | FY 2022 | FY 2021 |
| Non-Medicare | \$ 36.04 | \$ 33.50 |
| Medicare | 35.47 | 33.50 |

Age Related Morbidity

The per capita costs are adjusted for relative cost by age. These factors are a blend of the medical and prescription drug age-related morbidity factors set out in the 2020 State Report. A sample of factors used are:

| Age | Factor |
|-----|--------|
| 40 | 0.379 |
| 45 | 0.446 |
| 50 | 0.540 |
| 55 | 0.666 |
| 60 | 0.827 |
| 65 | 1.000 |

| Age | Factor |
|-----|--------|
| 70 | 1.185 |
| 75 | 1.326 |
| 80 | 1.411 |
| 85 | 1.484 |
| 90+ | 1.522 |

Medicare Part B Premium Reimbursement

100% of Medicare participants are assumed to receive reimbursement since retirees do not have to request reimbursement, unless where otherwise specified by ECF.

Medicare Part D

NYSHIP is providing drug coverage for ECF Medicare retirees through an EGWP. For valuation purposes, only the net contribution amount is valued for the Welfare Arrangements. The Federal Subsidies and Pharmaceutical Manufacturers' brand discounts under the EGWP are reflected in the per capita costs for ECF.

SECTION VIII - DEMOGRAPHIC INFORMATION

The OA performed tests for reasonability on the census data provided for this valuation. On the basis of these tests, the OA believes the data is sufficiently complete and appropriate for determining the OPEB obligations in total for the City, for the Plan, and for the Component Units presented in this valuation.

This census data was supplemented by information provided by OLR related to eligible retirees and other eligible beneficiaries covered by the Program. The census data does not generally include employees who are not yet participants in NYCERS.

In addition, census data was provided for the following groups not part of NYCERS:

- Active employees of CUNY who participate in TIAA or the Cultural Institutions Retirement System.
- Retired employees of CUNY who participate in TIAA and have been participating in the New York City Health Benefits Program.
- Line-of-Duty Survivors who are currently receiving continued lifetime medical coverage and Medicare Part B Premium reimbursements.

Table VIII-a sets forth details of the Health Plan Participation data used in this Report:

Health Plan Participation

Table VIII-a

| Pre-Medicare Headcounts | GHI Indemnity | HIP HMO | Other HMO | Waived | Total |
|------------------------------------|----------------------|----------------|------------------|---------------|--------------|
| NYCERS* | 15,482 | 3,758 | 523 | 735 | 20,498 |
| TRS | 9,481 | 778 | 77 | 831 | 11,167 |
| BERS* | 1,624 | 399 | 22 | 194 | 2,239 |
| POLICE | 27,753 | 2,325 | 1,214 | 1,375 | 32,667 |
| FIRE | 5,970 | 470 | 404 | 112 | 6,956 |
| TIAA | 18 | 2 | 1 | 0 | 21 |
| LODW | 41 | 10 | 2 | 0 | 53 |
| Component Units: | | | | | |
| HHC | 2,765 | 603 | 93 | 116 | 3,577 |
| NYCHA | 1,323 | 496 | 44 | 50 | 1,913 |
| WFA | 0 | 0 | 0 | 0 | 0 |
| Medicare Headcounts | GHI Indemnity | HIP HMO | Other HMO | Waived | Total |
| NYCERS* | 40,932 | 9,164 | 3,128 | 3,073 | 56,297 |
| TRS | 62,217 | 4,078 | 1,558 | 3,506 | 71,359 |
| BERS* | 11,849 | 2,182 | 267 | 1,050 | 15,348 |
| POLICE | 15,534 | 1,603 | 1,593 | 531 | 19,261 |
| FIRE | 7,450 | 867 | 784 | 173 | 9,274 |
| TIAA | 852 | 61 | 49 | 2 | 964 |
| LODW | 608 | 92 | 28 | 0 | 728 |
| Component Units: | | | | | |
| HHC | 15,156 | 3,178 | 777 | 999 | 20,110 |
| NYCHA | 5,046 | 1,075 | 238 | 382 | 6,741 |
| WFA | 3 | 1 | 0 | 1 | 5 |

*These NYCERS' headcounts include SCA retirees since the City is responsible for SCA's health insurance coverage.

Annual Welfare Fund Contributions

Table VIII-b: NYCERS

| UWF | Description | Count ¹ | 6/30/20 Rate ² | 6/30/21 Rate ² | 6/30/22 Rate ^{2,3} |
|-----|-----------------------------|--------------------|------------------------------|------------------------------|--------------------------------|
| 001 | NYC MANAGEMENT WELFARE FUND | 8,489 | \$1,940 | \$1,940 | \$1,940 |
| 005 | ALLIED BUILDNG INSPECTORS | 368 | 1,740 | 1,740 | 1,740 |
| 010 | ASST DEP WARDENS ASSC SBF | 452 | 1,740 | 1,740 | 1,740 |
| 030 | CORRECTION CAPTAINS ASSOC | 1,895 | 1,590 | 1,590 | 1,590 |
| 035 | CORRECT OFFICRS BEN ASSOC | 9,708 | 1,740 | 1,740 | 1,840 |
| 040 | NYS COURT OFFICERS ASSOC | 0 | 830 | 830 | 830 |
| 045 | CWA LOCAL 1182 SEC BEN FD | 480 | 1,740 | 1,740 | 1,740 |
| 046 | CWA L1181 SEC BEN FND RET | 341 | 1,740 | 1,740 | 1,740 |
| 048 | ADM FUND OF THE DEA PDCNY | 5 | 1,573 | 1,573 | 1,573 |
| 049 | ADM FUND OF THE DEA PDCNY | 132 | 1,573 | 1,573 | 1,573 |
| 050 | ADM FUND OF THE DEA PDCNY | 90 | 1,573 | 1,573 | 1,573 |
| 055 | ADMFD OF THE DEA PDCNY-DI | 123 | 1,573 | 1,573 | 1,573 |
| 060 | DISTRICT COUNCIL 37 | 37,308 | 1,940 | 1,940 | 1,990 |
| 061 | DC 37 - (TAPD CIVILIANS) | 3 | 1,940 | 1,940 | 1,940 |
| 066 | ORG OF STAFF ANA-MEBA-FER | 87 | 1,740 | 1,740 | 1,740 |
| 070 | DOCTORS CNCL RET WELF FND | 487 | 1,540 | 1,540 | 1,926 |
| 075 | LOCAL 3 - ELEC INSPECTORS | 31 | 1,740 | 1,740 | 1,740 |
| 080 | NYC RET HLTH & WEL FD-FAD | 148 | 1,740 | 1,740 | 1,740 |
| 081 | UNKNOWN | 1 | 1,740 | 1,740 | 1,740 |
| 100 | NYC RET HLTH & WEL FD-LPN | 615 | 1,740 | 1,740 | 1,740 |
| 105 | OSA SUPV.EMG.MED.SVC.SPEC | 35 | 1,740 | 1,740 | 1,740 |
| 106 | OSA WELF FND-SCHOOL SEC/T | 45 | 1,740 | 1,740 | 1,740 |
| 107 | OSA WELF FUND -SAN CHIEFS | 90 | 1,740 | 1,740 | 1,740 |
| 108 | ORG OF STAFF ANALYSTS | 2,619 | 1,740 | 1,740 | 1,740 |
| 109 | LCL 14 MUN W F-CRANE OPER | 27 | 1,740 | 1,740 | 1,740 |
| 110 | L 1199 NHHSEU (PREV L144) | 583 | 1,690 | 1,690 | 1,690 |
| 115 | NYC RET HLTH &WEL FD-L306 | 16 | 1,740 | 1,740 | 1,740 |
| 120 | LOCAL 333 INS FND NYC EES | 181 | 1,740 | 1,740 | 1,740 |
| 130 | TEAMSTERS L237 ADMIN FUND | 38 | 2,220 | 2,220 | 2,220 |
| 131 | UNKNOWN | 42 | 1,940 | 1,940 | 1,990 |
| 135 | RET CWA L1183 BOE H&W FND | 110 | 1,853 | 1,853 | 1,853 |
| 140 | 1199 NHHSEU | 413 | 1,740 | 1,740 | 1,740 |
| 155 | CWA LOCAL 1180 ADMIN FUND | 6,047 | 1,775 | 1,775 | 1,775 |
| 156 | CWA LOCAL 1180 ADMIN FUND | 1 | 1,775 | 1,775 | 1,775 |
| 160 | NYC DEPY SHER ASS RET SBF | 100 | 1,465 | 1,465 | 1,465 |
| 162 | UFT WELFARE FUND | 56 | 1,820 | 1,820 | 1,820 |
| 163 | UFT WELFARE FUND | 37 | 1,820 | 1,820 | 1,820 |

Table VIII-b: NYCERS (continued)

| UWF | Description | Count¹ | 6/30/20 Rate² | 6/30/21 Rate² | 6/30/22 Rate^{2,3} |
|------------|--|--------------------------|-------------------------------------|-------------------------------------|---------------------------------------|
| 164 | COUNCIL OF SUPERVISORS AND ADMINISTRATORS | 9 | 1,820 | 1,820 | 1,820 |
| 165 | RET WELF FND AUTO SVC WKR | 36 | 1,740 | 1,740 | 1,740 |
| 170 | PBA (NYPD) | 9 | 1,853 | 1,853 | 1,853 |
| 171 | PBA (NYPD) (TA) | 1,196 | 1,853 | 1,853 | 1,853 |
| 172 | PBA (NYPD) (HA) | 386 | 1,853 | 1,853 | 1,853 |
| 185 | NYC RET HLTH&WEL FD-NYSNA | 4,514 | 1,740 | 1,740 | 1,740 |
| 187 | PAVERS & RDBULDERS INSPCT | 31 | 1,740 | 1,740 | 1,740 |
| 188 | LEEBA RETIREES WELF FUND | 15 | 1,740 | 1,740 | 1,740 |
| 190 | UNITED PROBATION OFFICERS | 450 | 1,823 | 1,823 | 1,823 |
| 200 | SANITATION OFF RET WEL FN | 2,365 | 1,290 | 1,290 | 1,290 |
| 225 | SOC NYPD LT BENEV ASSOCIA | 2 | 1,665 | 1,665 | 1,665 |
| 226 | SOC NYPD CAPT ENDOW ASSOC | 5 | 1,665 | 1,665 | 1,668 |
| 228 | SOC NYPD LT BENEV ASSO(T) | 81 | 1,665 | 1,665 | 1,668 |
| 229 | SOC NYPD CAPT END ASS (T) | 20 | 1,665 | 1,665 | 1,668 |
| 230 | SBA HLTH&WELF FUND/RET(T) | 175 | 1,740 | 1,740 | 1,740 |
| 231 | SOC NYPD LT BENEV ASSO(H) | 55 | 1,665 | 1,665 | 1,668 |
| 232 | SOC NYPD CAPT END ASSN(H) | 32 | 1,665 | 1,665 | 1,668 |
| 233 | SBA HLTH&WELF FUND/RET(H) | 99 | 1,740 | 1,740 | 1,740 |
| 235 | TEAMSTERS L237 ADMIN FUND | 7,382 | 2,220 | 2,220 | 2,220 |
| 250 | UNIF SANMEN'S ADM FUND | 7,000 | 2,009 | 2,009 | 2,009 |
| 251 | LCL 831 UNF SANIT WORKER | 232 | 1,940 | 1,940 | 1,990 |
| 260 | LCL 300 RETIREE WELF FUND | 428 | 1,740 | 1,740 | 1,740 |
| 261 | LEEBA RETIREES WELF FUND | 9 | 1,840 | 1,840 | 1,840 |
| 262 | LEEBA RETIREE WELF FUND SEA | 10 | 1,740 | 1,740 | 1,740 |
| 275 | PROFESSIONAL STAFF CONGRESS | 194 | 1,965 | 1,965 | 1,965 |
| 276 | PROFESSIONAL STAFF CONGRESS | 1 | 1,965 | 1,965 | 1,965 |
| 277 | SBA HLTH & WELF FND/RETIR | 2 | 1,965 | 1,965 | 1,965 |
| 555 | CIVILIAN, TRANSIT POLICE DEPT. NYC TRANSIT | 21 | 1,740 | 1,740 | 1,740 |
| 556 | UNKNOWN | 5 | 1,940 | 1,940 | 1,990 |
| 700 | LCL 237 RWF(L621 SUP MEC) | 284 | 2,020 | 2,020 | 2,020 |
| 701 | LCL 237 RWF(L621 SUP I W) | 9 | 2,020 | 2,020 | 2,020 |
| 702 | LOCAL 237 RWF(L621 DDMEM) | 7 | 2,020 | 2,020 | 2,020 |
| 703 | TEAMSTERS L237 ADMIN FUND | 90 | 2,220 | 2,220 | 2,220 |
| 704 | L1969(L806 BRDG PAINTERS) | 34 | 2,140 | 2,140 | 2,140 |
| 705 | L.40 361&417 JT UN SEC FD | 47 | 1,640 | 1,640 | 1,640 |
| 706 | LOCAL 3 -COMM ELECTRICIAN | 54 | 1,740 | 1,740 | 1,740 |
| 709 | L237RWF (L621 ADFM) | 4 | 2,020 | 2,020 | 2,020 |
| 710 | LCL UNION#3 IBEW NYC ELEC | 8 | 1,740 | 1,740 | 1,740 |
| 711 | LCL 3 IBEW ELECTRCN WEST | 2 | 1,740 | 1,740 | 1,740 |
| 712 | LCL 3 IBEW ELCTRCN SUP HL | 604 | 1,740 | 1,740 | 1,740 |

Table VIII-b: NYCERS (continued)

| UWF | Description | Count¹ | 6/30/20 Rate² | 6/30/21 Rate² | 6/30/22 Rate^{2,3} |
|------------|---|--------------------------|-------------------------------------|-------------------------------------|---------------------------------------|
| 714 | LCL 237 ELEV MECH RETIREE | 303 | 2,220 | 2,220 | 2,220 |
| 715 | TEAMSTERS L237 ADMN FUND | 30 | 2,220 | 2,220 | 2,220 |
| 717 | LOCAL1969 GLAZIERS | 34 | 2,140 | 2,140 | 2,140 |
| 720 | DC 37 LOCKSMITH SUPV LKSMT | 50 | 1,940 | 1,940 | 1,990 |
| 724 | RET H&W FD L3 IBEW-SUP.ME | 81 | 1,640 | 1,640 | 1,640 |
| 725 | UNKNOWN | 35 | 1,740 | 1,740 | 1,740 |
| 727 | NYC RET HLTH & WEL FD-PL | 478 | 1,740 | 1,740 | 1,740 |
| 728 | LCL 1969 NYC PAINTERS | 339 | 2,140 | 2,140 | 2,140 |
| 730 | PAVERS RDBLDR DC PAVERS | 1 | 1,440 | 1,440 | 1,440 |
| 731 | TEAMSTERS L237 ADMIN FUND | 26 | 2,220 | 2,220 | 2,220 |
| 732 | TEAMSTERS L237 ADMIN FUND | 218 | 2,220 | 2,220 | 2,220 |
| 736 | RET.WF AUTO MECH-UPSTATE | 40 | 1,740 | 1,740 | 1,740 |
| 738 | RET WELF FND AUTO MECHNYC | 907 | 1,740 | 1,740 | 1,740 |
| 739 | RET WELF FUND-TRACT OPERS | 7 | 1,740 | 1,740 | 1,740 |
| 741 | RET WEL FND MOTOR GRA OPR | 18 | 1,740 | 1,740 | 1,740 |
| 742 | LCL 14 PILE DRIVING ENGR | 1 | 1,715 | 1,715 | 1,775 |
| 743 | DC 37 HIGHWAY REPAIRERS | 329 | 1,940 | 1,940 | 1,990 |
| 744 | DC 37 FURNIT MAINTAINER | 1 | 1,940 | 1,940 | 1,940 |
| 745 | DC 37 CYLD PRESS OPER | 19 | 1,940 | 1,940 | 1,940 |
| 746 | LCL 300 HIGHWAY REPAIRERS | 18 | 1,740 | 1,740 | 1,740 |
| 747 | PAVERS RDBLDRS HWY REPAIR | 10 | 1,740 | 1,740 | 1,740 |
| 748 | LCL 14-RETIR. GAS RLR ENG | 13 | 1,740 | 1,740 | 1,740 |
| 749 | DC37SUPERVISOR HIGHWAY RE | 89 | 1,990 | 1,990 | 1,990 |
| 750 | LCL300 SUPV.HWY REPAIRER | 4 | 1,640 | 1,640 | 1,640 |
| 751 | PVRS + RDBLDRS DC SUP HR | 4 | 1,640 | 1,640 | 1,640 |
| 753 | DC37 COMPOSITOR (JOB) | 4 | 1,940 | 1,940 | 1,940 |
| 754 | RET WEL FUND CARRGE UPHOL | 2 | 1,740 | 1,740 | 1,740 |
| 756 | TEAMSTERS L237 ADMIN FUND | 51 | 2,220 | 2,220 | 2,220 |
| 777 | PATROLMEN'S BENEVOLENT ASSOCIATION (LINE-OF-DUTY SURVIVORS) | 3 | 0 | 0 | 0 |
| 782 | TEAMSTERS L237 ADMIN FUND | 2 | 2,220 | 2,220 | 2,220 |
| 786 | DC37 CITY LABORERS | 374 | 1,940 | 1,940 | 1,940 |
| 787 | DC37 CONSTRUCTION LABORER | 271 | 1,990 | 1,990 | 1,990 |
| 804 | TEAMSTERS L237 ADMIN FUND | 1,089 | 2,220 | 2,220 | 2,220 |
| 808 | LCL 30 OILER | 227 | 1,740 | 1,740 | 1,740 |
| 812 | DC37 RADIO REPAIR MECHANI | 58 | 1,940 | 1,940 | 1,940 |
| 814 | LCL 246 RWF RUBR TIRE REP | 17 | 1,940 | 1,940 | 1,990 |
| 816 | DC37 SEWAGE TRTMT WKRS | 461 | 1,940 | 1,940 | 1,940 |
| 818 | RET WEL FND SGN PTRS/LTRS | 5 | 1,740 | 1,740 | 1,740 |
| 820 | LCL 30 STAT ENG SR ST ENG | 545 | 1,740 | 1,740 | 1,740 |

Table VIII-b: NYCERS (continued)

| UWF | Description | Count¹ | 6/30/20 Rate² | 6/30/21 Rate² | 6/30/22 Rate^{2,3} |
|------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|---------------------------------------|
| 823 | NYC DIST.COUNCIL OF CARPS | 449 | 1,740 | 1,740 | 1,740 |
| 824 | NYC DIST CNCL CARPS RETIR | 1 | 1,740 | 1,740 | 1,740 |
| 825 | NYC DIST COUNCIL OF CARPS | 4 | 1,740 | 1,740 | 1,740 |
| 826 | LOCAL 3-SR STAT ENG ELEC | 110 | 1,740 | 1,740 | 1,740 |
| 827 | RET WEL FND SHEET MTL WKR | 50 | 1,740 | 1,740 | 1,740 |
| 828 | LOCAL 3 - STAT ENG ELECTR | 246 | 1,740 | 1,740 | 1,740 |
| 832 | DC 37 HI-PRESS PLANT TEND | 91 | 1,940 | 1,940 | 1,940 |
| 837 | LCL LDG 5 BLKSMTH HLP SUP | 41 | 2,583 | 2,583 | 2,583 |
| 838 | NYC DIST. COUNCIL OF CARP | 26 | 1,740 | 1,740 | 1,740 |
| 839 | LCL LDG 5 BOLRMKR HLP SUP | 13 | 860 | 860 | 860 |
| 842 | NYC MUNI STMFTR&HLP HW FD | 95 | 1,740 | 1,740 | 1,740 |
| 843 | LOCAL 15-GASOLINE RLR ENG | 28 | 1,740 | 1,740 | 1,740 |
| 845 | LCL 15 WELDERS FD | 66 | 1,740 | 1,740 | 1,740 |
| 847 | LCL 15 HIPRESS OPER. | 1 | 1,065 | 1,065 | 1,065 |
| 848 | LCL 15 TRACTOR OPER(SANI) | 92 | 1,740 | 1,740 | 1,740 |
| 888 | Either not entitled to Welfare Fund | 110 | 0 | 0 | 0 |
| 901 | Benefits or UWF contribution is not | 1 | 0 | 0 | 0 |
| 902 | funded by the City. Medicare Part B | 1 | 0 | 0 | 0 |
| 908 | reimbursement. | 1 | 0 | 0 | 0 |
| 909 | | 1 | 0 | 0 | 0 |
| 923 | | 1 | 0 | 0 | 0 |
| 935 | | 2 | 0 | 0 | 0 |
| 936 | | 1 | 0 | 0 | 0 |
| 948 | | 2 | 0 | 0 | 0 |
| 950 | | 16 | 0 | 0 | 0 |
| 955 | | 1 | 0 | 0 | 0 |
| 960 | | 19 | 0 | 0 | 0 |
| 965 | | 3 | 0 | 0 | 0 |
| 978 | | 1 | 0 | 0 | 0 |
| 981 | | 2 | 0 | 0 | 0 |
| 999 | | 50 | 0 | 0 | 0 |
| Blank | | 8,526 | 0 | 0 | 0 |

Total Count: 113,325

¹ Data includes entire population provided by OLR and supplemented by the OA, including Component Units and other groups not attributable to the City for GASB75 purposes.

² Rates used as of June 30, 2020, June 30, 2021, and June 30, 2022 include any known one-time Welfare Fund payments paid during the Fiscal Year following the date of the rate. Also reflected are any known retroactive increases as of their effective date. Effective rates and information on one-time payments are based on information supplied by OLR. The rate for DC37 was used for UWFs without a reported rate. Rates for Professional Staff Congress came from its website.

³ The Fiscal Year 2022 valuation reflects rates provided as of June 30, 2022 trended back to the June 30, 2021 valuation date using valuation trend.

Table VIII-c: TRS

| UWF | Description | Count¹ | 6/30/20 Rate² | 6/30/21 Rate² | 6/30/22 Rate^{2,3} |
|---------------------|--|--------------------------|-------------------------------------|-------------------------------------|---------------------------------------|
| 001 | NYC MANAGEMENT WELFARE FUND | 174 | \$1,940 | \$1,940 | \$1,940 |
| 035 | CORRECT OFFICRS BEN ASSOC | 1 | 1,740 | 1,740 | 1,840 |
| 045 | CWA LOCAL 1182 SEC BEN FUND | 1 | 1,740 | 1,740 | 1,740 |
| 055 | ADMFD OF THE DEA PDCNY-DI | 1 | 1,573 | 1,573 | 1,573 |
| 060 | DISTRICT COUNCIL 37 | 743 | 1,940 | 1,940 | 1,990 |
| 108 | ORG OF STAFF ANALYSTS | 5 | 1,740 | 1,740 | 1,740 |
| 155 | CWA LOCAL 1180 ADMIN FUND | 18 | 1,775 | 1,775 | 1,775 |
| 160 | NYC DEPY SHER ASS RET SBF | 1 | 1,465 | 1,465 | 1,465 |
| 162 | UFT WELFARE FUND | 1 | 1,820 | 1,820 | 1,820 |
| 163 | UFT WELFARE FUND | 70,519 | 1,820 | 1,820 | 1,820 |
| 164 | COUNCIL OF SUPERVISORS AND ADMINISTRATORS | 7,481 | 1,820 | 1,820 | 1,820 |
| 185 | NYC RET HLTH&WEL FD-NYSNA | 1 | 1,740 | 1,740 | 1,740 |
| 200 | SANITATION OFF RET WEL FN | 1 | 1,290 | 1,290 | 1,290 |
| 227 | SBA HLTH & WELF FND/RETIR | 2 | 1,740 | 1,740 | 1,740 |
| 235 | TEAMSTERS L237 ADMIN FUND | 9 | 2,220 | 2,220 | 2,220 |
| 260 | LCL 300 RETIREE WELF FUND | 1 | 1,740 | 1,740 | 1,740 |
| 275 | PROFESSIONAL STAFF CONGRESS | 2,030 | 1,965 | 1,965 | 1,965 |
| 276 | PROFESSIONAL STAFF CONGRESS | 11 | 1,965 | 1,965 | 1,965 |
| 277 | SBA HLTH & WELF FND/RETIR | 8 | 1,965 | 1,965 | 1,965 |
| 724 | RET H&W FD L3 IBEW-SUP.ME | 1 | 1,640 | 1,640 | 1,640 |
| 888 | Either not entitled to Welfare Fund | 17 | 0 | 0 | 0 |
| 999 | Benefits or UWF contribution is not | 14 | 0 | 0 | 0 |
| Blank | funded by the City. Medicare Part B reimbursement. | 2,993 | 0 | 0 | 0 |
| Total Count: | | 84,033 | | | |

¹ Data includes entire population provided by OLR and supplemented by the OA, including Component Units and other groups not attributable to the City for GASB75 purposes.

² Rates used as of June 30, 2020, June 30, 2021, and June 30, 2022 include any known one-time Welfare Fund payments paid during the Fiscal Year following the date of the rate. Also reflected are any known retroactive increases as of their effective date. Effective rates and information on one-time payments are based on information supplied by OLR. The rate for DC37 was used for UWFs without a reported rate. Rates for Professional Staff Congress came from its website.

³ The Fiscal Year 2022 valuation reflects rates provided as of June 30, 2022 trended back to the June 30, 2021 valuation date using valuation trend.

Table VIII-d: BERS

| UWF | Description | Count¹ | 6/30/20 Rate² | 6/30/21 Rate² | 6/30/22 Rate^{2,3} |
|------------|---|--------------------------|-------------------------------------|-------------------------------------|---------------------------------------|
| 001 | NYC MANAGEMENT WELFARE FUND | 651 | \$1,940 | \$1,940 | \$1,940 |
| 035 | CORRECT OFFICRS BEN ASSOC | 1 | 1,740 | 1,740 | 1,840 |
| 045 | CWA LOCAL 1182 SEC BEN FUND | 1 | 1,740 | 1,740 | 1,740 |
| 060 | DISTRICT COUNCIL 37 | 12,945 | 1,940 | 1,940 | 1,990 |
| 106 | OSA WELF FND-SCHOOL SEC/T | 8 | 1,740 | 1,740 | 1,740 |
| 108 | ORG OF STAFF ANALYSTS | 19 | 1,740 | 1,740 | 1,740 |
| 115 | NYC RET HLTH &WEL FD-L306 | 9 | 1,740 | 1,740 | 1,740 |
| 130 | TEAMSTERS L237 ADMIN FUND | 326 | 2,220 | 2,220 | 2,220 |
| 131 | DISTRICT COUNCIL 37 | 566 | 1,940 | 1,940 | 1,990 |
| 135 | RET CWA L1183 BOE H&W FND | 2 | 1,853 | 1,853 | 1,853 |
| 155 | CWA LOCAL 1180 ADMIN FUND | 431 | 1,775 | 1,775 | 1,775 |
| 162 | UFT WELFARE FUND | 27 | 1,820 | 1,820 | 1,820 |
| 163 | UFT WELFARE FUND | 946 | 1,820 | 1,820 | 1,820 |
| 164 | COUNCIL OF SUPERVISORS AND ADMINISTRATION | 7 | 1,820 | 1,820 | 1,820 |
| 165 | RET WELF FND AUTO SVC WKR | 2 | 1,740 | 1,740 | 1,740 |
| 185 | NYC RET HLTH&WEL FD-NYSNA | 3 | 1,740 | 1,740 | 1,740 |
| 235 | TEAMSTERS L237 ADMIN FUND | 377 | 2,220 | 2,220 | 2,220 |
| 250 | UNIF SANMEN'S ADM FUND | 1 | 2,009 | 2,009 | 2,009 |
| 260 | LCL 300 RETIREE WELF FUND | 65 | 1,740 | 1,740 | 1,740 |
| 275 | PROFESSIONAL STAFF CONGRESS | 9 | 1,965 | 1,965 | 1,965 |
| 555 | CIVILIAN, TRANSIT POLICE DEPT. NYC TRANSIT | 0 | 1,740 | 1,740 | 1,740 |
| 700 | LCL 237 RWF(L621 SUP MEC) | 6 | 2,020 | 2,020 | 2,020 |
| 703 | TEAMSTERS L237 ADMIN FUND | 2 | 2,220 | 2,220 | 2,220 |
| 708 | LOCAL 246, DEPT OF EDUCATION | 2 | 1,940 | 1,940 | 1,990 |
| 710 | LCL UNION#3 IBEW NYC ELEC | 2 | 1,740 | 1,740 | 1,740 |
| 712 | LCL 3 IBEW ELCTRCN SUP HL | 56 | 1,740 | 1,740 | 1,740 |
| 714 | LCL 237 ELEV MECH RETIREE | 3 | 2,220 | 2,220 | 2,220 |
| 717 | LOCAL1969 GLAZIERS | 12 | 2,140 | 2,140 | 2,140 |
| 720 | DC37 LOCKSMITH SUPV LKSMT | 4 | 1,940 | 1,940 | 1,990 |
| 724 | RET H&W FD L3 IBEW-SUP.ME | 26 | 1,640 | 1,640 | 1,640 |
| 725 | UNKNOWN | 1 | 1,740 | 1,740 | 1,740 |
| 727 | NYC RET HLTH & WEL FD-PL | 49 | 1,740 | 1,740 | 1,740 |
| 728 | LCL 1969 NYC PAINTERS | 27 | 2,140 | 2,140 | 2,140 |
| 731 | TEAMSTERS L237 ADMIN FUND | 11 | 2,220 | 2,220 | 2,220 |
| 732 | TEAMSTERS L237 ADMIN FUND | 13 | 2,220 | 2,220 | 2,220 |
| 738 | RET WELF FND AUTO MECHNYC | 31 | 1,740 | 1,740 | 1,740 |
| 740 | RET WELF FND GEN MECHANIC | 1 | 1,290 | 1,290 | 1,290 |
| 744 | DC 37 FURNIT MAINTAINER | 4 | 1,940 | 1,940 | 1,940 |
| 756 | TEAMSTERS L237 ADMIN FUND | 1 | 2,220 | 2,220 | 2,220 |

Table VIII-d: BERS (continued)

| UWF | Description | Count¹ | 6/30/20 Rate² | 6/30/21 Rate² | 6/30/22 Rate^{2,3} |
|------------|--|--------------------------|-------------------------------------|-------------------------------------|---------------------------------------|
| 760 | LOCAL 246, DEPT OF EDUCATION | 4 | 1,740 | 1,740 | 1,740 |
| 786 | DC37 CITY LABORERS | 21 | 1,940 | 1,940 | 1,940 |
| 787 | DC37 CONSTRUCTION LABORER | 2 | 1,990 | 1,990 | 1,990 |
| 804 | TEAMSTERS L237 ADMIN FUND | 14 | 2,220 | 2,220 | 2,220 |
| 812 | DC37 RADIO REPAIR MECHANI | 7 | 1,940 | 1,940 | 1,940 |
| 820 | LCL 30 STAT ENG SR ST ENG | 7 | 1,740 | 1,740 | 1,740 |
| 823 | NYC DIST.COUNCIL OF CARPS | 93 | 1,740 | 1,740 | 1,740 |
| 826 | LOCAL 3-SR STAT ENG ELEC | 1 | 1,740 | 1,740 | 1,740 |
| 827 | RET WEL FND SHEET MTL WKR | 7 | 1,740 | 1,740 | 1,740 |
| 832 | DC 37 HI-PRESS PLANT TEND | 1 | 1,940 | 1,940 | 1,940 |
| 838 | NYC DIST. COUNCIL OF CARP | 10 | 1,740 | 1,740 | 1,740 |
| 839 | LCL LDG 5 BOLRMKR HLP SUP | 1 | 860 | 860 | 860 |
| 842 | NYC MUNI STMFTR&HLP HW FD | 33 | 1,740 | 1,740 | 1,740 |
| 845 | LCL 15 WELDERS FD | 2 | 1,740 | 1,740 | 1,740 |
| 888 | Either not entitled to Welfare Fund | 8 | 0 | 0 | 0 |
| 999 | Benefits or UWF contribution is not | 12 | 0 | 0 | 0 |
| Blank | funded by the City. Medicare Part B reimbursement. | 779 | 0 | 0 | 0 |

Total Count: 17,649

¹ Data includes entire population provided by OLR and supplemented by the OA, including Component Units and other groups not attributable to the City for GASB75 purposes.

² Rates used as of June 30, 2020, June 30, 2021, and June 30, 2022 include any known one-time Welfare Fund payments paid during the Fiscal Year following the date of the rate. Also reflected are any known retroactive increases as of their effective date. Effective rates and information on one-time payments are based on information supplied by OLR. The rate for DC37 was used for UWFs without a reported rate. Rates for Professional Staff Congress came from its website.

³ The Fiscal Year 2022 valuation reflects rates provided as of June 30, 2022 trended back to the June 30, 2021 valuation date using valuation trend.

Table VIII-e: POLICE

| UWF | Description | Count | 6/30/20 Rate¹ | 6/30/21 Rate¹ | 6/30/22 Rate^{1,2} |
|------------|---|---------------|-------------------------------------|-------------------------------------|---------------------------------------|
| 001 | NYC MANAGEMENT WELFARE FUND | 129 | \$1,940 | \$1,940 | \$1,940 |
| 035 | CORRECT OFFICRS BEN ASSOC | 1 | 1,740 | 1,740 | 1,840 |
| 048 | ADM FUND OF THE DEA PDCNY | 13,321 | 1,573 | 1,573 | 1,573 |
| 049 | ADM FUND OF THE DEA PDCNY | 1 | 1,573 | 1,573 | 1,573 |
| 055 | ADMFD OF THE DEA PDCNY-DI | 1 | 1,573 | 1,573 | 1,573 |
| 163 | UFT WELFARE FUND | 2 | 1,820 | 1,820 | 1,820 |
| 164 | COUNCIL OF SUPERVISORS AND ADMINISTRATION | 1 | 1,820 | 1,820 | 1,820 |
| 170 | PBA (NYPD) | 23,643 | 1,853 | 1,853 | 1,853 |
| 225 | SOC NYPD LT BENEV ASSOCIATION | 4,244 | 1,665 | 1,665 | 1,665 |
| 226 | SOC NYPD CAPT ENDOW ASSOCIATION | 1,477 | 1,665 | 1,665 | 1,668 |
| 227 | SBA HLTH & WELF FND/RETIR | 8,273 | 1,740 | 1,740 | 1,740 |
| 235 | TEAMSTERS L237 ADMIN FUND | 3 | 2,220 | 2,220 | 2,220 |
| 240 | UFOA LOCAL 854 RETIREES | 0 | 1,695 | 1,695 | 1,695 |
| 777 | PATROLEMEN'S BENEVOLENT ASSOCIATION (LINE-OF-DUTY SURVIVORS) | 237 | 0 | 0 | 0 |
| 888 | | 119 | 0 | 0 | 0 |
| 901 | | 4 | 0 | 0 | 0 |
| 926 | | 14 | 0 | 0 | 0 |
| 927 | Either not entitled to Welfare Fund benefits or UWF contribution is not funded by the City. Medicare Part B reimbursement. | 60 | 0 | 0 | 0 |
| 930 | | 30 | 0 | 0 | 0 |
| 931 | | 11 | 0 | 0 | 0 |
| 948 | | 136 | 0 | 0 | 0 |
| 949 | | 1 | 0 | 0 | 0 |
| 001 | | 220 | 0 | 0 | 0 |
| 035 | | | | | |
| | Total Count: | 51,928 | | | |

¹ Rates used as of June 30, 2020, June 30, 2021, and June 30, 2022 include any known one-time Welfare Fund payments paid during the Fiscal Year following the date of the rate. Also reflected are any known retroactive increases as of their effective date. Effective rates and information on one-time payments are based on information supplied by OLR. The rate for DC37 was used for UWFs without a reported rate. Rates for Professional Staff Congress came from its website.

² The Fiscal Year 2022 valuation reflects rates provided as of June 30, 2022 trended back to the June 30, 2021 valuation date using valuation trend.

Table VIII-f: FIRE

| UWF | Description | Count | 6/30/20 Rate¹ | 6/30/21 Rate¹ | 6/30/22 Rate^{1,2} |
|------------|-------------------------------------|---------------|-------------------------------------|-------------------------------------|---------------------------------------|
| 001 | NYC MANAGEMENT WELFARE FUND | 93 | \$1,940 | \$1,940 | \$1,940 |
| 060 | DISTRICT COUNCIL 37 | 8 | 1,940 | 1,940 | 1,990 |
| 065 | RET FIREFIGHTRS SBF-UN ME | 94 | 1,760 | 1,760 | 1,760 |
| 163 | UFT WELFARE FUND | 7 | 1,820 | 1,820 | 1,820 |
| 170 | PBA (NYPD) | 2 | 1,853 | 1,853 | 1,853 |
| 205 | RETIRED FIREFIGHTERS SBF | 10,445 | 1,820 | 1,820 | 1,820 |
| 206 | RET FIREFIGHTRS SBF-WIPER | 12 | 1,670 | 1,670 | 1,670 |
| 240 | UFOA LOCAL 854 RETIREES | 4,809 | 1,695 | 1,695 | 1,695 |
| 888 | | 103 | 0 | 0 | 0 |
| 901 | Either not entitled to Welfare Fund | 3 | 0 | 0 | 0 |
| 905 | Benefits or UWF contribution is not | 362 | 0 | 0 | 0 |
| 940 | funded by the City. Medicare Part B | 206 | 0 | 0 | 0 |
| 941 | reimbursement. | 1 | 0 | 0 | 0 |
| Blank | | 85 | 0 | 0 | 0 |
| | Total Count: | 16,230 | | | |

¹ Rates used as of June 30, 2020, June 30, 2021, and June 30, 2022 include any known one-time Welfare Fund payments paid during the Fiscal Year following the date of the rate. Also reflected are any known retroactive increases as of their effective date. Effective rates and information on one-time payments are based on information supplied by OLR. The rate for DC37 was used for UWFs without a reported rate. Rates for Professional Staff Congress came from its website.

² The Fiscal Year 2022 valuation reflects rates provided as of June 30, 2022 trended back to the June 30, 2021 valuation date using valuation trend.

SECTION IX – SUMMARY OF KEY TERMS

Actuarial present value of projected benefit payments

Projected benefit payments discounted to reflect the expected effects of the time value (present value) of money and the probabilities of payment.

Actuarial valuation

The determination, as of a point in time (the actuarial valuation date), of the service cost, total OPEB liability, and related actuarial present value of projected benefit payments for OPEB performed in conformity with Actuarial Standards of Practice unless otherwise specified by the GASB.

Actuarial valuation date

The date as of which an actuarial valuation is performed.

Discount rate

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 following:

1. The actuarial present value of benefit payments projected to be made in future periods in which
 - a. the amount of the OPEB plan's fiduciary net position is projected to be greater than the benefit payments that are projected to be made in that period, and
 - b. OPEB plan assets up to that point are expected to be invested using a strategy to achieve the long-term expected rate of return, calculated using the long-term expected rate of return on OPEB plan investments
2. The actuarial present value of projected benefit payments not included in (a), calculated using a 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).

Employer Group Waiver Plan (EGWP)

A group Medicare Part D prescription drug plan option that is offered to retirees who are entitled to prescription drug coverage as part of their OPEB plan.

Entry age normal cost method

A method under which the actuarial present value of the projected benefits of each individual included in an actuarial valuation is allocated on a level basis over the earnings or service of the individual between entry age and assumed exit age(s). The portion of this actuarial present value allocated to a valuation year is called the normal cost. The portion of this actuarial present value not provided for at a valuation date by the actuarial present value of future normal costs is called the Total OPEB Liability for purposes of measurements under GASB74 and GASB75.

Healthcare cost trend rates

The rates of change in per capita health claims costs over time as a result of factors such as medical inflation, utilization of healthcare services, plan design, and technological developments.

Income Related Monthly Adjustment Amount (IRMAA)

An additional premium amount for Medicare Part B and Medicare prescription drug coverage for higher income beneficiaries.

Net OPEB liability

The liability of employers and non-employer contributing entities to employees for benefits provided through an OPEB plan less any assets that are dedicated to providing OPEB to plan members and that are protected from creditors of the employers.

Other postemployment benefits (OPEB)

Benefits (such as death benefits, life insurance, disability, and long-term care) that are paid in the period after employment and that are provided separately from a pension plan, as well as healthcare benefits paid in the period after employment, regardless of the manner in which they are provided. OPEB does not include termination benefits or termination payments for sick leave.

Projected benefit payments

All benefits (including refunds of employee contributions) estimated to be payable through the OPEB plan (including amounts to be paid by employers or non-employer contributing entities as the benefits come due) to current active and inactive employees as a result of their past service and their expected future service.

Service cost

The portions of the actuarial present value of projected benefit payments that are attributed to a valuation year.

Total OPEB liability

The liability of employers and non-employer contributing entities to employees for benefits provided through an OPEB plan.