

2018

The City of New York
Deferred Compensation Plan/
New York City Employee IRA

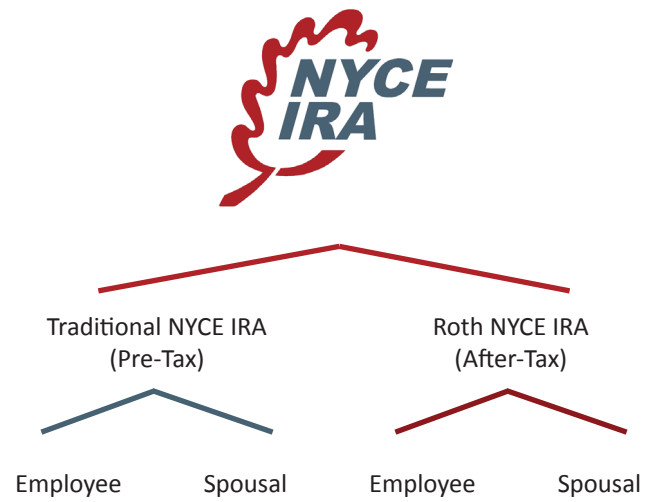
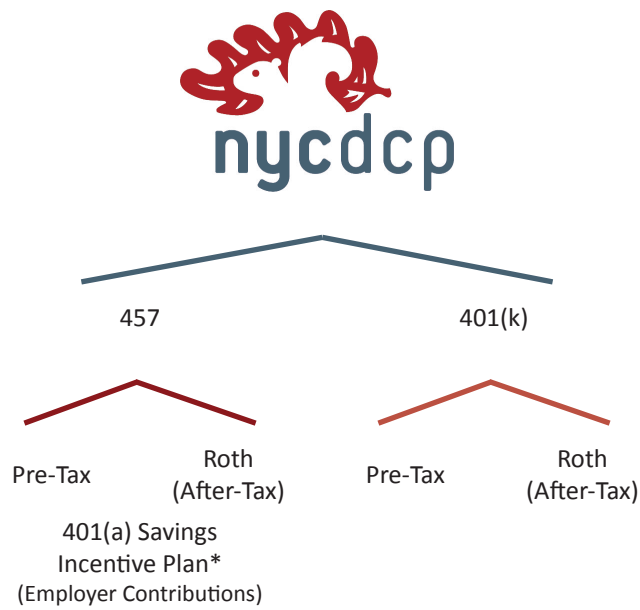
Comprehensive Annual Financial Report

For the Fiscal Years Ended December 31, 2018 and 2017

The Deferred Compensation Plan is a Fiduciary Fund of The City of New York



Array of Programs



* Available to eligible City employees with a negotiated employer contribution, subject to an agreed-upon annual employee contribution to the 457 Plan.

The City of New York
Deferred Compensation Plan/New York City Employee IRA
Comprehensive Annual Financial Report

For the Fiscal Years Ended December 31, 2018 and 2017

Prepared by:

Georgette Gestely
Director

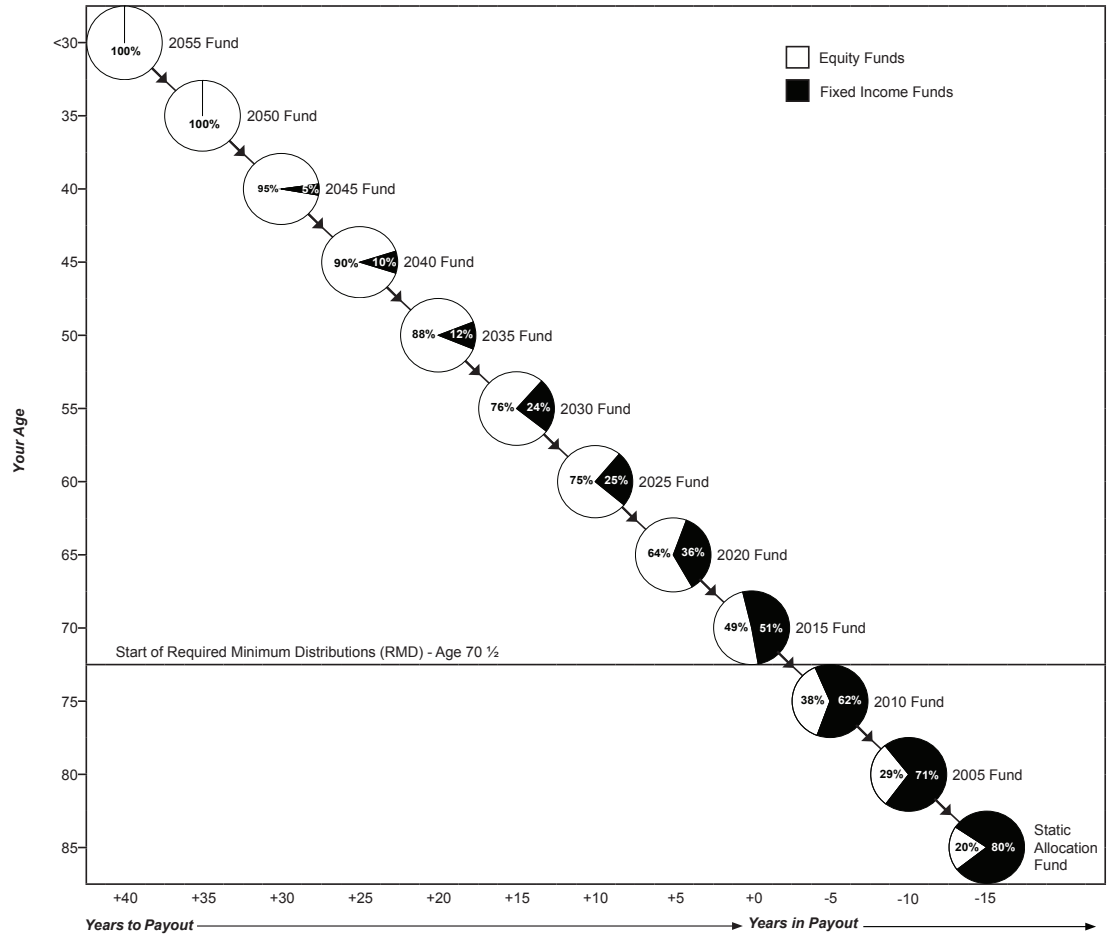
Joan Barrow
Chief Accountant

Sections 457, 401(k) and 401(a) Plans and Section 408(q) New York City Employee IRA (NYCE IRA)
reported within The City of New York's Comptroller's Comprehensive Annual Financial Report

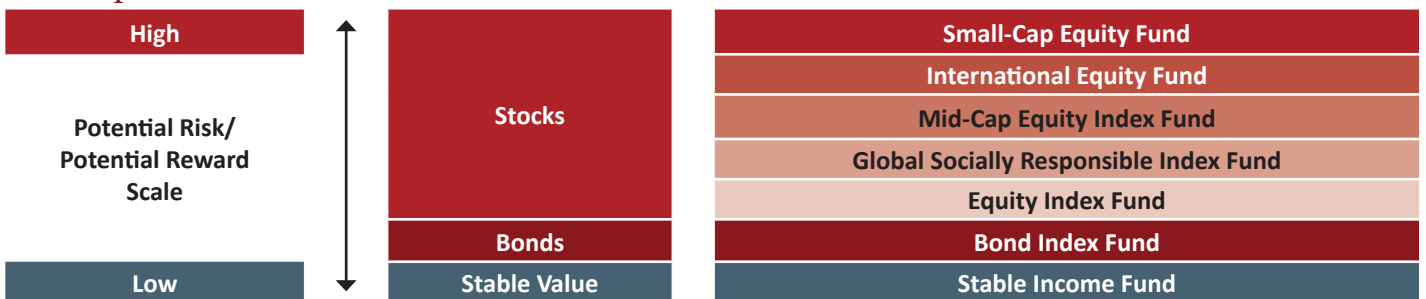
Program Investment Choices

Pre-Arranged Portfolios

Participants are offered a choice of 12 Pre-Arranged Portfolios. Participants should choose a Pre-Arranged Portfolio based on their age or distribution begin date.



Core Options



All Plan assets are in either a separately managed account or a commingled account. Unlike a mutual fund, a separate account is not open to outside investors and is created solely for the benefit of Plan participants. Separate accounts only contain Deferred Compensation Plan assets and all participants trade according to the same rules.

Rather than utilize a single investment manager for some options, the Plan has created core investment options with multiple managers to diversify Plan risk. This structure provides flexibility to change managers, if necessary, without suspending participant trading.

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Board Members

Bill de Blasio
Mayor of The City of New York

Scott M. Stringer
Comptroller of The City of New York

Renee Campion, Chair
Commissioner, Office of Labor Relations

Melanie Hartzog
Director, Office of Management & Budget

Jacques Jiha
Commissioner, Department of Finance

Lisette Camilo
Commissioner, Department of Citywide
Administrative Services

James P. O'Neill
Police Commissioner

Daniel A. Nigro
Fire Commissioner

Henry Garrido
District Council 37, AFSCME

Gerard Fitzgerald
Uniformed Firefighters Association

Counsel to the Deferred Compensation Plan:
Zachary W. Carter
Corporation Counsel

Organization Chart Office of Labor Relations

Renee Campion
Commissioner

Steven H. Banks
First Deputy Commissioner
General Counsel

Georgette Gestely
Director, Employee Benefits Program

The Deferred Compensation Plan

Georgette Gestely
Director

Joan Barrow
Chief Accountant

Beth Kushner
Deputy Director, Administration

Sang Hong
Deputy Director, Operations

Dean S. Weltman
Executive Agency Counsel

See pages 52-55 for a list of the Plan's investment managers.



Office of Labor Relations Deferred Compensation Plan & NYCE IRA

22 Cortlandt Street, 28th Floor, New York, NY 10007
Tel: 212 306-7760 / Outside NYC: 888 DCP-3113 and 888 IRA-NYCE
nyc.gov/deferredcomp and nyc.gov/nyceira

Board Members

Mayor of the City of New York
Comptroller of the City of New York
Commissioner, Office of Labor Relations
Director, Office of Management & Budget
Commissioner of Finance
Commissioner, Citywide Administrative Services
Police Commissioner
Fire Commissioner
Uniformed Firefighters Association
District Council 37, AFSCME
Corporation Counsel, Counsel to the Board

Renee Campion
Commissioner
Steven H. Banks
First Deputy Commissioner
General Counsel
Georgette Gestely
Director, Employee Benefits Program
Beth Kushner
Deputy Director, Administration
Sang Hong
Deputy Director, Operations

June 7, 2019

Members of the Board

The City of New York Deferred Compensation Plan/NYCE IRA
22 Cortlandt Street
New York, New York 10007

The Mayor's Office of Labor Relations is pleased to present you with the thirty-second Comprehensive Annual Financial Report of The City of New York Deferred Compensation Plan/NYCE IRA.

An Umbrella Program

The Deferred Compensation Plan (Plan) is an umbrella program for three defined contribution plans, the 457 Plan, 401(k) Plan, and 401(a) Plan, and a Deemed IRA called the New York City Employee (NYCE) IRA. The 457 Plan began operations in 1986, and the 401(k) Plan was introduced in January 2002. The NYCE IRA was introduced in 2006 and is also available to spouses of eligible City employees. NYCE IRA account owners are able to make contributions, consolidate their retirement assets through rollovers, and deposit their income tax refunds into their accounts.

The 401(a) Savings Incentive Program was added to the Deferred Compensation Plan in 2007. The 401(a) plan provides an employer contribution to eligible employees, as determined by labor agreements. The employer contribution is an incentive for employees to save even more for retirement by making contributions to the 457 Plan.

The investment program offered to participants is the same for all the programs under the Deferred Compensation Plan/NYCE IRA umbrella. The Plan offers participants core investment options and target date pre-arranged portfolios.

Eligible participants for the Deferred Compensation Plan include employees of The City of New York, the Housing Authority, the School Construction Authority, the Water Finance Authority, the Department of Education, NYC Health + Hospitals and the community colleges of the City University of New York (401(k) only). These employees, as well as all NYC retirees who worked for the City from 1985 onwards, and the spouses of active and retired employees, are eligible to establish a NYCE IRA account.

As of December 31, 2018, the 457, 401(k), the NYCE IRA and the 401(a) had, \$16.4 billion, \$3.0 billion, \$339 million, and \$23 million, respectively, in net positions. This compares to \$17.0 billion, \$2.9 billion, \$328 million, and \$24 million, respectively, in assets available for Plan benefits at December 31, 2017.

Plan Funding and Expense Payment

The administration of The City of New York Deferred Compensation Plan is entirely self-funded. In 2018, it was financed through a combination of participants' quarterly administrative fees, amounts deducted from the net asset values, and interest earned on assets held in the Plan's custodial account. These funds covered custodial and recordkeeping expenses, communications, and administrative expenses.

Membership	457 Plan	401(k)Plan	NYCE IRA	401(a)Plan	Total Participant Accounts
Total Participants 2018	146,660	54,288	4,883	3,028	208,859
Total Participants 2017	141,179	50,080	4,558	3,060	198,877
Net Increase/(decrease)	5,481	4,208	325	(32)	9,982

Investments

Each Plan investment contract is procured in accordance with applicable New York State Regulations and New York City laws and awarded to the manager with the best combination of investment experience, performance history and management fees. In December 2016, the Deferred Compensation Board approved a resolution establishing the New York City Deferred Compensation Plan Minority and Women-Owned Business Enterprise (MWBE) Policy for the purpose of ensuring the inclusion of MWBE asset managers in searches conducted by or on behalf of the Board. The Deferred Compensation Plan offers twelve pre-arranged portfolios and seven core investment options. The investment performance results, net of fees, are shown below:

Investment Option	2018 Yield/Return	Investment Option	2018 Yield/Return
Static Allocation Fund	(0.4)%	Stable Income Fund	2.1%
2005 Fund	(0.7)%	Bond Index Fund	(0.0)%
2010 Fund	(1.8)%	Equity Index Fund	(4.4)%
2015 Fund	(2.8)%	Global Socially Responsible Index Fund	(6.7)%
2020 Fund	(4.2)%	Mid-Cap Equity Index Fund	(11.1)%
2025 Fund	(5.7)%	International Equity Fund	(15.5)%
2030 Fund	(6.6)%	Small-Cap Equity Fund	(7.1)%
2035 Fund	(7.2)%		
2040 Fund	(7.7)%		
2045 Fund	(8.0)%		
2050 Fund	(8.7)%		
2055 Fund	(9.2)%		

Award

Certificate of Achievement for Excellence in Financial Reporting

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to The City of New York Deferred Compensation Plan for its comprehensive annual financial report for the fiscal year ended December 31, 2017. This was the twenty-fourth consecutive year that the Plan has achieved this prestigious award. In order to be awarded a Certificate of Achievement, a government must publish an easily readable and efficiently organized comprehensive annual financial report. This report must satisfy both generally accepted accounting principles and applicable legal requirements.

A Certificate of Achievement is valid for a period of one year only. We believe that our current comprehensive annual financial report continues to meet the Certificate of Achievement Program's requirements and we are submitting it to the GFOA to determine its eligibility for another certificate.

2018 Annual Report

The management of The City of New York Deferred Compensation Plan is responsible for establishing and maintaining procedures to administer and oversee Plan operations. An internal control structure is designed to provide reasonable assurance that the assets of the system are safeguarded against loss, theft, or misuse, and that adequate accounting data is compiled to allow for the preparation of financial statements in conformity with generally accepted accounting principles.

Furthermore, the concept of reasonable assurance recognizes that:

1. the cost of a control should not exceed the benefits likely to be derived from it; and
2. the valuation of cost and benefits requires estimates and judgment by management.

We believe the information presented in the Comprehensive Annual Financial Report is accurate and fair in all material respects.

This Letter of Transmittal is designed to complement Management's Discussion and Analysis (MD&A) and should be read in conjunction with it. The MD&A can be found immediately following the report of the independent auditors.

Independent Auditors

The Program financial statements for the years ended December 31, 2018 and 2017 were audited by CliftonLarsonAllen LLP, and Marks Paneth LLP, respectively.

Acknowledgements

We wish to express our appreciation and gratitude to the dedicated and knowledgeable individuals who comprise both the staff and the consulting community: the Plan's custodian, The Bank of New York Mellon; the Plan's legal advisors, Ice Miller, LLP and Morgan Lewis & Bockius, LLP; the Plan's educational consultant, ICMA-RC; the Plan's recordkeeper, FAScore, LLC, which is responsible for the maintenance of individual participant accounts and the issuance of quarterly participant statements; and the Plan's investment consultants, Mercer Investment Consulting, Inc., NEPC, LLC and Milliman USA, who also provided the investment return figures throughout this report. These individuals ensure the continued availability to The New York City employees of the finest possible defined contribution plan at the lowest possible cost.

Sincerely,



Georgette Gestely
Director



Joan E. Barrow
Chief Accountant



Government Finance Officers Association

**Certificate of
Achievement
for Excellence
in Financial
Reporting**

Presented to

**City of New York
Deferred Compensation Plan
New York**

For its Comprehensive Annual
Financial Report
for the Fiscal Year Ended

December 31, 2017

Christopher P. Morill

Executive Director/CEO

The City of New York Deferred Compensation Board (the “Board”) was established by Executive Order No. 81 dated April 16, 1985 and Executive Order No. 85, dated November 13, 1985 of the Office of the Mayor. Executive Orders Nos. 81 and 85 were replaced by Executive Order No. 158, dated October 19, 2011. The Board is comprised of the Mayor of The City of New York, the Comptroller of The City of New York, the Commissioner of the Office of Labor Relations, the Director of the Office of Management & Budget, the Commissioner of Finance, the Commissioner of the Department of Citywide Administrative Services, the Police Commissioner, the Fire Commissioner, and two persons designated by the Municipal Labor Committee. The Municipal Labor Committee designated representatives from the Uniformed Firefighters Association and District Council 37, AFSCME to serve on the Board. The Corporation Counsel is counsel to the Board and the Plan. In 1986, the Board implemented the Deferred Compensation Plan for Employees of The City of New York and Related Agencies and Instrumentalities (the “457 Plan”) which is governed by §457 of the Internal Revenue Code of 1986, as amended (the “Code”). In January 2002, the Board commenced enrollment in the 401(k) Plan for Employees of The City of New York and Related Agencies and Instrumentalities (the “401(k) Plan”). In April 2006, the 401(k) Plan began accepting Roth (after-tax) contributions. In January 2007, the Board established the 401(a) Savings Incentive Plan for the Employees of The City of New York and Related Agencies and Instrumentalities (the “401(a) Plan”). The 401(a) Plan accepts only negotiated employer contributions for eligible employees who have made agreed-upon employee contributions to the 457 Plan. In 2011, as a result of the passage of the Small Business Jobs and Credit Act of 2010, the 457 Plan began accepting Roth (after-tax) contributions. The Mayor’s Office of Labor Relations (the “Plan Administrator”) administers the 457 Plan, the 401(k) Plan and the 401(a) Plan. The 457 Plan, 401(k) Plan and the 401(a) Plan will, at all times, comply with the Code and corresponding federal and state regulations and all other applicable laws. The 457, 401(k) and 401(a) Plans will sometimes be referred to collectively as the “Plans.”

The Plans are voluntary retirement contribution programs. The employers participating in the Plans include The City of New York, the Department of Education, NYC Health + Hospitals, the community colleges of the City University of New York (the 401(k) Plan only), the New York City Housing Authority, the New York City School Construction Authority and the New York City Municipal Water Finance Authority.

Delegation by Employers

The employers participating in the Plans have delegated their powers, duties, and responsibilities under the Plans to the Board.

Participation

An employee is eligible to participate in the Plans after the date he or she becomes a participant by completing an agreement (the “Participation Agreement”), via the Plans’ Web site, or through a Plan Enrollment Form with the Plan Administrator. All eligible employees enroll in the 457 Plan and/or the 401(k) Plan through the Plans’ Web site at nyc.gov/deferredcomp, or by submitting a Plan Enrollment Form. Eligibility to participate in the 401(a) Plan is determined by labor agreements.

The Participation Agreement must specify (a) the percentage of the participant’s includible compensation to be deferred in multiples of 0.5%, not less than 1% nor greater than 75% and (b) the investment option(s) selected by the participant, including the percentages to be allocated to the selected option(s), in increments of 1%.

Maximum Deferrals

457 Plan

The maximum amount which may be deferred, for both pre-tax and Roth contributions by a participant in the 457 Plan in a calendar year, may not exceed the lesser of (a) \$18,500 (\$19,000 in 2019) or (b) 75% of an active participant’s “includible compensation” (as defined by the Code). If you choose to contribute to both the 457 and the 401(k), your combined deferral election cannot exceed 75%. However, under certain circumstances, up to double the annual maximum participant contribution may be deferred by a participant during each of the last three years prior to reaching his or her designated “Normal Retirement Age” (“Deferral Acceleration for Retirement Amount”) if less than the maximum was deferred during earlier years. In addition, participants age 50 and over can defer an additional \$6,000 (\$6,000 in 2019), irrespective of prior contributions (“Age 50 and Over Catch-Up”). Participants age 50 and over can defer the greater of: (i) the Deferral Acceleration for Retirement Amount, or (ii) the Age 50 and Over Catch-Up amount in any of the three years prior to the designated Normal Retirement Age. If a participant contributes to more than one 457 plan in a given year, the amounts deferred under such plans are aggregated in applying the maximums stated above.

401(k) Plan

The maximum amount which may be deferred, for both pre-tax and Roth contributions, by a participant in the 401(k) Plan in a calendar year may not exceed the lesser of (a) \$18,500 (\$19,000 in 2019) or (b) 75% of an active participant's "includible compensation" (as defined by the Code). If you choose to contribute to both the 457 and the 401(k), your combined deferral election cannot exceed 75%. Participants age 50 and over can defer an additional \$6,000, (\$6,000 in 2019) irrespective of prior contributions. If a participant contributes to two 401(k) plans or a 401(k) and 403(b) plan, the amounts deferred under all such plans are aggregated by applying the maximums stated above. Participants contributing to both the 457 Plan and the 401(k) Plan do not have to aggregate and are permitted to contribute the maximum to each plan.

401(a) Plan

The amount of the employer contribution to the 401(a) Plan is not subject to the maximums stated above and is determined by labor agreements and subject to an agreed-upon annual employee contribution to the 457 Plan.

Assets Held in the Custodial Account

The following list consists of the various types of assets held in the custodial account for the exclusive benefit of the participants and their beneficiaries of the 457 Plan, 401(k) Plan and the 401(a) Plan: (1) all amounts deferred under the Plans, (2) all property and rights purchased with such amounts, and (3) all income attributable to such amounts or rights.

Beneficiaries

Each participant must file with the Plan Administrator a separate designation for the 457 Plan and 401(k) Plan of one or more beneficiaries entitled to receive the amount, if any, payable under the Plans upon the participant's death. The filed beneficiary designation for the 457 Plan will be effective for the 401(a) Plan. A participant may revoke or change his or her beneficiary designation without the consent of any prior beneficiary by completing a change form with the Plan Administrator or through the Plans' Web site, nyc.gov/deferredcomp, using his or her PIN. The last such designation on file with the Plan Administrator will be controlling. No designation, change, or revocation of a beneficiary designation will be effective unless received by the Plan Administrator prior to the participant's death, and in no event will it be effective as of a date prior to such filing.

If no beneficiary designation is in effect at the time of a participant's death, or if no primary or contingent beneficiary survives the participant, payment will be made to the partici-

part's surviving spouse or, if the participant had no surviving spouse, to the participant's estate.

Amendment of Participation Agreements

The Participation Agreement is legally binding and irrevocable with respect to all amounts deferred while it is in effect. However, a participant may make certain changes to the Participation Agreement which are allowed under the Plans. By using a personal identification number to access his or her account through the telephone voice response system or through the Plans' Web site, a participant may, as often as he or she wishes, suspend deferrals or may increase or decrease, in multiples of 0.5%, the percentage of wages to be deferred. In addition, a participant may, either through the telephone voice response system or through the Plans' Web site, change the investment direction of future deferrals and initiate account transfers between investment options.

Recommencement of Participation

An employee who has severed from New York City service may rejoin the 457 Plan, the 401(k) Plan, or both, and become an active participant after returning to New York City service by following the procedures set forth above. Eligibility to rejoin the 401(a) Plan is determined by labor agreements.

Any person who was a City employee after 1985 has the opportunity to join the 401(k) Plan irrespective of whether they are currently employed by the City. Employees that are no longer actively employed by the City may join the 401(k) Plan, however, only rollovers or transfers can be used to fund the account.

Maintenance of Accounts

For both the 457 Plan and the 401(k) Plan, the recordkeeper establishes an account for each participant to which any amounts deferred, transferred or distributed under the Plans are credited or charged, including any increase or decrease in the value of the investment options specified in the Participation Agreement or any amendment thereto. The Plan maintains an Excessive Trading Policy for all of the Plan's investment options. The policy states that if monies are not held in any of the fund options for a period of thirty-two (32) calendar days, the participant will be assessed a 2% redemption fee. The minimum fee that will be assessed will be \$20 based on a \$1,000 trade. An employee participating in both the 457 Plan and 401(k) Plan who wishes to make any changes must do so independently for each Plan.

The recordkeeper also establishes a 401(a) Plan account for eligible participants to which any amounts contributed,

transferred or distributed are credited or charged, including any increase or decrease in the value of the investment options specified.

All investment options offered under the Plans are offered by persons, companies or entities authorized to do business in the State of New York and are duly licensed, if applicable, by the appropriate federal agencies regulating such investments. The Board and the Plan Administrator are not responsible for any decrease in the value of a participant's account resulting from capital or market changes or any other changes occurring in the investment options of the participant's account. A participant or beneficiary is considered to have exercised independent control over the assets in his or her account and the consequences are within a participant's or beneficiary's exercise of control.

Crediting of Accounts

Each participant's account is credited with amounts authorized for deferral or completed incoming transfers within four business days of receipt in good order by the Plans' custodian. Funds are invested in accordance with participants' directions with one or more financial organizations appointed by the Board, to be held, managed, invested and reinvested in accordance with the applicable agreement entered into by the Plan with each such financial organization.

Account Reporting

A statement of the total amount invested in a participant's account is made available to each participant not more than thirty days after the end of each calendar quarter. If employees participate in the 457 Plan, 401(k) Plan, NYCE IRA, and the 401(a) Plan, they will receive only one statement but each plan will be separately accounted. Participants may also access their balance information through the Plans' telephone voice response system and the Plans' Web site. All participant statements are based on the net fair value or book value, as applicable, of the investment options as of the effective date of the statement to the extent such values are available to the Plan Administrator.

Fees

All participants are assessed a single quarterly administrative fee of \$20.00 for participation in the 457 Plan, the 401(k) Plan, 401(a) and the NYCE IRA. The administrative fee covers the cost of administering the Plans, safeguarding assets, and providing appropriate information and services including the supplying of quarterly statements. Furthermore, to offset Plan expenses an amount is deducted from the net asset values of each of the investment options. Currently, the amount

deducted from the net asset values of each of the investment options is .04%. In addition, each investment manager charges an investment management fee that is deducted directly from each investment option's daily value.

Incoming Rollover or Transfers

Participants in the Deferred Compensation Plan are eligible to roll over their pre-tax and Roth assets from other eligible retirement plans into either the 401(k) Plan or the 457 Plan. The 401(k) Plan accepts rollovers from all eligible retirement plans (as defined by the Code), including 401(a), 457, 401(k), 403(b) and rollover IRAs. The 457 Plan accepts transfers from other 457 plans only. The Roth 457 accepts transfers from other Roth 457 plans only and the Roth 401(k) only accepts rollovers from other Roth 401(k) plans. Effective February 1, 2017, participants in either the 457 Plan or 401(k) Plan are eligible, while in City service, to perform an in-plan transfer/ rollover of assets from their pre-tax account to their Roth account, subject to applicable income taxes. The 401(a) Plan does not accept incoming rollovers or transfers. The Deferred Compensation Plan has also established the Special 401(k) Rollover Account exclusively for the acceptance of the federally tax-deferred portion of a participant's City pension and annuity funds.

In-Service Withdrawals

Emergency Withdrawals

A pre-tax 457 Plan participant who experiences an unforeseeable emergency (as defined by the Code) may submit an application to be presented to the Board for a determination of whether the guidelines for an emergency withdrawal under §457 of the Code have been met. Any determination by the Board of what constitutes an unforeseeable emergency, or the amount needed to satisfy the emergency, is final. Upon Board approval, the Plan's recordkeeper will disburse the amount authorized by the Board to the participant. Distributions are subject to applicable taxes.

A pre-tax 401(k) Plan participant who experiences an immediate and heavy financial need (as defined by the Code) may submit an application to be presented to the Board for a determination of whether the guidelines for a withdrawal under §401 of the Code have been met. Any determination by the Board of what constitutes an immediate and heavy financial need, or the amount needed to satisfy the need, is final. Upon Board approval, the Plan's recordkeeper will disburse the amount authorized by the Board to the participant. Distributions are subject to applicable taxes and may be subject to early withdrawal penalties.

The 401(a) Plan does not provide for emergency withdrawals.

Withdrawals from the 457 Plan

Pre-tax and Roth 457 Plan participants age 70½ and older are eligible to take distributions, without penalty, from their 457 account while still working for the City. Eligible in-service distributions from Roth 457 Plan are income-tax free provided that it has been at least five taxable years since the initial contribution.

Withdrawals from the 401(k) Plan

Pre-tax 401(k) Plan participants age 59½ and older are eligible to take distributions, without penalty, from their 401(k) account while still working for the City. Roth 401(k) Plan participants age 59½ and older are eligible to take income-tax free distributions, without penalty, from their Roth 401(k) account while still working for the City if it has been at least five taxable years since the initial contribution.

Withdrawals after age 62 from the 401(a) Plan
401(a) Plan participants age 62 and older are eligible to take distributions, without penalty, from their 401(a) account while still working for the City.

In-Plan Rollovers

Effective March 2017, Plan participants of both the 457 Plan and the 401(k) may choose to transfer money from their Pre-tax account to their Roth account, while still employed by the City.

457 Plan participants can transfer money from their Pre-tax 457 account to their Roth 457 account and 401(k) Plan participants can transfer money from their Pre-tax 401(k) account to their Roth 401(k) account. All transfers are subject to income taxes which will be reported on Form 1099-R in the year when transferred.

Direct Transfer for the Purpose of Purchasing Permissive Service Credit

Plan participants are eligible to use their pre-tax 457 account and pre-tax 401(k) account assets as sources of funding for the purchase of permissive service credits (as defined by the Code) in any defined benefit plan or pension system, via a direct transfer.

457 Plan Small Account Withdrawals

A participant may be entitled to a full withdrawal of his or her account prior to severance from service if the account balance does not exceed \$5,000, there have been no contributions or loans during the two-year period ending on the date of distribution, and there has been no prior small account

withdrawal. Upon receipt of a small account withdrawal, the participant's account is closed. The Participant may rejoin the Plan at any time.

Loans

A participant in active payroll status is eligible to receive a loan from the pre-tax portion of the 457 Plan and the pre-tax portion of the 401(k) Plan. The minimum amount is \$2,500. The maximum amount of an approved loan shall not exceed the lesser of: (i) 50% of the participant's 457 or 401(k) Plan account balance; or (ii) \$50,000 less the combined highest balance of all outstanding loans a participant may have from a pension, a 403(b) and other Deferred Compensation Plans for the preceding 1-year period. Participants will be permitted to receive one loan in any 12-month period and may have no more than two loans outstanding at any time from each Plan. An origination fee in the amount of \$50.00 shall be deducted from the loan amount approved and a quarterly maintenance fee of \$8.75 shall be deducted from the participant's account for the term of each loan.

Loans are not permitted from the 401(a) Plan and the Roth portions of either the 457 Plan or the 401(k) Plan. Other than these allowable in-service withdrawals, participants may not withdraw from their accounts until they sever from New York City service.

Distribution of Benefits

Upon a participant's severance from New York City service, or if a pre-tax 457 Plan participant is age 70½ or older, or if a pre-tax 401(k) Plan participant is age 59½ or older, or if a 401(a) Plan participant is age 62 or older, the participant is entitled to receive an amount equal to the value of his or her account, to be paid, subject to applicable taxes, in accordance with one of the methods described below. If the distribution is from a Roth 457 or 401(k) account and made (1) after a period of five consecutive taxable years that begins with the first day in which the participant makes a Roth contribution and ends when five consecutive taxable years have been completed; and (2) on or after the date the participant attains age 59½, the Qualified Distribution will not be subject to federal, state or local income taxes upon distribution. Participants can choose to remain in the Plans and are not required to withdraw, roll over or transfer their account upon severance from New York City service.

Commencement Date

Subject to Required Minimum Distributions, a participant may elect any commencement date as long as such date is no earlier than the forty-fifth day after severance from New York City service. A participant has the option to cancel or change

his or her distribution schedule at any time upon proper notice to the Plan Administrator. Upon reaching the later of April 1st of the calendar year following: (1) the calendar year he or she reaches age 70½, or (2) the calendar year in which he or she severs from New York City service, 457 and 401(k) Plan participants (both pre-tax and Roth) are required to start receiving withdrawals from their account (Required Minimum Distributions).

Method of Distribution for Direct Payment

If a participant chooses to take direct payments, the following methods of distribution are available under the Plans:

1. Full withdrawal; or
2. A specified Amount Certain of a participant's account (Minimum request of \$1,000); or
3. Substantially equivalent monthly, quarterly, semi-annual or annual payments; or
4. A specified Amount Certain of a participant's account, with the remaining balance paid in substantially equivalent monthly, quarterly, semi-annual or annual payments.

Participants may request up to five non-periodic Amount Certain withdrawals per calendar year. Additional requests may be subject to a nominal processing fee.

Rollovers or Transfers Out of the Plans

If a participant chooses to transfer or roll over his or her Deferred Compensation account, or a portion thereof, it must be to an eligible retirement plan, (457, 401(k), 403(b), 401(a), or rollover IRA). 457 Plan participants are permitted to roll over or transfer upon severance from City service or upon reaching age 70½. 401(k) Plan participants are eligible to roll over upon severance from City service or upon reaching age 59½. 401(a) Plan participants are eligible to roll over upon severance from City service or upon reaching age 62. Participants looking to consolidate assets are eligible to roll over their Deferred Compensation account to the New York City Employee IRA (NYCE IRA). The NYCE IRA is available as both a traditional IRA and a Roth IRA. A spousal NYCE IRA is also available (see Plan Summary Section for the NYCE IRA).

Election of Length of Distribution

If a participant elects installment payments, he or she may specify either: (1) the total number of payments, or (2) the dollar amount of each payment. In either case, distributions cannot be paid over a period of time which exceeds the life expectancy of the participant or, in certain circumstances, the joint life expectancy of the participant and a "designated beneficiary" (as defined by the Code). Payments will be recalculated annually and will be paid only until the account is exhausted.

Distribution Elections by Beneficiaries

Subject to Required Minimum Distributions, beneficiaries are eligible to select how to receive distributions from the decedent's account by the submission of a Beneficiary Distribution Form. Distributions to a "designated beneficiary" must be made over a period that does not exceed the life expectancy of the beneficiary, while all other beneficiaries must complete distribution by the fifth anniversary of the participant's death. Only spousal beneficiaries are eligible to roll over assets to their own eligible retirement plan or IRA. A non-spousal beneficiary is eligible to make a direct trustee-to-trustee transfer of an eligible rollover distribution from the Plan to an IRA established solely for the purpose of receiving the death benefit distribution. For a participant who has begun receiving distributions from his or her account, any amount not distributed to the participant during his or her life will be distributed after the death of the participant at least as rapidly as under the method of distribution being used by the participant.

If a participant died before his or her required beginning date, distribution to a spousal beneficiary must begin on or before December 31st of the year in which such participant would have attained age 70½. All other beneficiaries must begin no later than December 31st of the calendar year following the calendar year in which the participant died. If a participant died after his or her required beginning date, distributions to all beneficiaries must begin no later than December 31st of the calendar year following the calendar year in which the participant died.

The City of New York Deferred Compensation Board (the “Board”) was established by Executive Order No. 81 dated April 16, 1985 and Executive Order No. 85, dated November 13, 1985 of the Office of the Mayor. Executive Orders Nos. 81 and 85 were replaced by Executive Order No. 158, dated October 19, 2011. The Board is comprised of the Mayor of The City of New York, the Comptroller of The City of New York, the Commissioner of the Office of Labor Relations, the Director of the Office of Management & Budget, the Commissioner of Finance, the Commissioner of Citywide Administrative Services, the Police Commissioner, the Fire Commissioner, and representatives from the Uniformed Firefighters Association and District Council 37, AFSCME, both designated by the Municipal Labor Committee. The Corporation Counsel is counsel to the Board and the Plan. In November 2006, the Board implemented a deemed IRA program, the New York City Employee Individual Retirement Account (“NYCE IRA”) which is governed by §408 and §408(A) of the Internal Revenue Code of 1986, as amended (the “Code”). The provisions establishing the NYCE IRA are incorporated into the 401(k) Plan for Employees of The City of New York and Related Agencies and Instrumentalities (the “401(k) Plan”) in accordance with §408(q) of the Code. The Mayor’s Office of Labor Relations (the “NYCE IRA Administrator”) administers the NYCE IRA. The NYCE IRA will, at all times, comply with the Code and corresponding federal and state regulations and all other applicable laws.

There are two forms of IRAs: a traditional IRA and a Roth IRA. The current and former employees of the following agencies and instrumentalities are eligible to establish a NYCE IRA: The City of New York, the Department of Education, NYC Health + Hospitals, the community colleges of the City University of New York, the New York City Housing Authority, the New York City School Construction Authority and the New York City Municipal Water Finance Authority.

Establishing a NYCE IRA

A current or former eligible employee establishes a NYCE IRA account after the date he or she acknowledges the NYCE IRA Disclosure Statement and Fee Schedule (the “Disclosure Statement”), via the NYCE IRA Web site or the NYCE IRA Application. Establishing a NYCE IRA also requires specifying the investment option(s) selected by the account owner, including the percentages to be allocated to the selected option(s), in increments of 1%. In addition, the new NYCE IRA account owner must designate at least one individual or entity as beneficiary of his or her NYCE IRA account. A spouse of an eligible current or former employee of The City of New York may establish a Spousal NYCE IRA account. A spouse can open a Spousal NYCE IRA by completing a New York City Employee IRA Application and submitting it to the NYCE IRA Administrative Office.

Funding a NYCE IRA

Contributions

The contribution limit to the NYCE IRA for 2018 is the lesser of \$5,500 (\$6,000 for 2019) or total annual taxable compensation. NYCE IRA account owners age 50 and over can contribute a maximum to the NYCE IRA of the lesser of \$6,500 or total taxable compensation for year 2018 (\$7,000 for 2019). The same contribution limits apply for the Spousal NYCE IRA. The maximum contribution limit applies to the total contributions made to all IRAs (traditional and Roth) for the year. Contributions to the NYCE IRA may be made anytime during the year or by the deadline for filing a federal income tax return, without including extensions. Contributions to the NYCE IRA

must be received by the Plan’s custodian prior to the tax-filing deadline. Contributions to a traditional IRA are generally deductible on a federal income tax return and can be made until the account owner is age 70½. Whether contributions into the NYCE IRA will be deductible or non-deductible depends on the account owner’s (or, if married, the account owner’s and the spouse’s) Modified Adjusted Gross Income and whether or not the account owner or spouse is covered by another retirement plan at work. Unlike a traditional IRA, Roth IRA contributions are not deductible and can continue to be made after age 70½. Eligibility to make contributions to the Roth NYCE IRA depends on the account owner’s (or, if married, account owner’s and spouse’s) Modified Adjusted Gross Income. Contributions can be made by personal check or money order.

Rollovers

A rollover is a tax-free distribution from a previous retirement plan or IRA that is transferred to another retirement plan or IRA. A rollover does not count toward the annual maximum IRA contribution limit and is not a tax deductible contribution.

The Traditional NYCE IRA will accept rollovers from a previous employer’s retirement plan and the City’s pre-tax 457 Plan or pre-tax 401(k) Plan and 403(b) after severance from City service or attainment of age 59½ (401(k) or 403(b)). The Roth NYCE IRA will accept rollovers from the City’s Roth 457 Plan and Roth 401(k) Plan. The Roth NYCE IRA will accept after-tax rollovers from the City pensions systems. Both the Traditional and Roth NYCE IRA accept IRA rollovers from other financial institutions.

The only distributions from a retirement plan or IRA that are not eligible for rollover to the NYCE IRA are the following: Periodic Payments from a pension, annuity or retirement plan (401(k), 457, 403(b) or IRA) that are made at least once a year and that will last for (a) your life expectancy, (b) your life expectancy and your beneficiary's life expectancy, or (c) a specified period of ten years or more, Required Minimum Distributions, and Hardship Withdrawals.

Conversions

A conversion is a rollover from a traditional IRA to a Roth IRA, where the amount rolled over is subject to applicable income taxes. A conversion does not count towards the annual maximum IRA contribution limit.

Assets in the City's Pre-tax 457 Plan and the Pre-tax 401(k) Plan can be directly rolled over to the Roth NYCE IRA upon the participant's eligibility for distribution. The amount rolled over is subject to applicable income taxes.

Assets Held in the Custodial Account

The following list consists of the various types of assets held in the custodial account for the exclusive benefit of NYCE IRA account owners and their beneficiaries: (1) all amounts contributed and rolled over into a NYCE IRA account, (2) all property and rights purchased with such amounts, and (3) all income attributable to such amounts, property or rights.

Beneficiaries

Each NYCE IRA account owner must file with the NYCE IRA Administrator, a beneficiary designation indicating one or more beneficiaries entitled to receive the amount, if any, payable under the NYCE IRA upon the account owner's death. A separate beneficiary designation must be made for Traditional and Roth NYCE IRA accounts. An account owner may revoke or change his or her beneficiary designation without the consent of any prior beneficiary by completing a personal information change request form with the NYCE IRA Administrator. The last such designation on file with the NYCE IRA Administrator will be controlling. No designation, change, or revocation of a beneficiary designation will be effective unless received by the NYCE IRA Administrator prior to the account owner's death, and in no event will it be effective as of a date prior to such filing. If no primary or contingent beneficiary survives the account owner, payment will be made to the account owner's surviving spouse or, if the account owner had no surviving spouse, to the account owner's estate.

Disclosure Statement

The Disclosure Statement is legally binding and irrevocable with respect to all amounts contributed or rolled over into a NYCE IRA account while it is in effect.

Maintenance of NYCE IRA Accounts

The recordkeeper establishes a NYCE IRA account for each account owner to which any amounts contributed, rolled over or distributed under the NYCE IRA are credited or charged, including any increase or decrease in the value of the investment options. A separate account is established for a Traditional NYCE IRA account and a Roth NYCE IRA account.

A NYCE IRA account owner may make certain changes to his or her account by using a personal identification number to access his or her account through the telephone voice response system or through the Plan's Web site. A NYCE IRA account owner may, as often as he or she wishes, change the investment direction of future contributions and rollovers and initiate account transfers between investment options in multiples of 1%. The NYCE IRA Administrator maintains an Excessive Trading Policy for all of the program's investment options. The policy states that if monies are not held in any of the fund options for a period of thirty-two (32) calendar days, the account owner will be assessed a 2% redemption fee. The minimum fee that will be assessed will be \$20 based on a \$1,000 trade. A NYCE IRA owner participating in both a Traditional and Roth NYCE IRA who wishes to make any changes must do so independently for each account.

All investment options offered under the NYCE IRA are offered by persons, companies or entities authorized to do business in the State of New York and duly licensed, if applicable, by the appropriate federal agencies regulating such investments. The Board and the NYCE IRA Administrator are not responsible for any decrease in the value of a NYCE IRA account resulting from capital or market changes or any other changes occurring in the investment options of the owner's NYCE IRA account. In accordance with the Disclosure Statement, an account owner or beneficiary is considered to have exercised independent control over the assets in his or her account and the consequences are within an account owner's or beneficiary's exercise of control.

Crediting of Accounts

Each NYCE IRA account is credited with amounts authorized for contributions or completed incoming rollovers within four business days of receipt in good order by the NYCE IRA's custodian. Funds are invested in accordance with the account owners' directions with one or more financial organizations appointed by the Board, to be held, managed, invested and

reinvested in accordance with the applicable agreement entered into by the Plan with each financial organization.

NYCE IRA Account Reporting

A statement of the total amount invested in a NYCE IRA account is made available to each account owner not more than thirty days after the end of each calendar quarter. If the NYCE IRA account owner has either or both a Traditional IRA account and Roth IRA account and/or participates in either or both the 457 Plan and 401(k) Plan, they will receive only one statement, but each program will be separately accounted. NYCE IRA account owners may also access their balance information through the telephone voice response system or Plan's Web site. All statements to a NYCE IRA account owner are based on the net fair market value or book value, as applicable, of the investment options as of the effective date of the statement, to the extent such values are available to the NYCE IRA Administrator.

Fees

All participants are assessed a single quarterly administrative fee of \$20.00 for participation in the 457 Plan, the 401(k) Plan, the 401(a) Plan and the NYCE IRA. The administrative fee covers the cost of administering the NYCE IRA, safeguarding assets, and providing appropriate information and services including the supplying of quarterly statements. Furthermore, to offset NYCE IRA expenses, an amount is deducted from the net asset values of each of the investment options. Currently, the amount deducted from the net asset values of each of the investment options is .04%. In addition, each investment manager charges an investment management fee that is deducted directly from each investment option's daily value.

Withdrawal of NYCE IRA Assets

NYCE IRA account owners can withdraw assets from their account at any time. Subject to certain exceptions, the withdrawal of assets from an IRA prior to age 59½ is subject to a 10% early withdrawal penalty.

Assets in a Traditional NYCE IRA account are tax-deferred until the account owner takes a withdrawal. Upon withdrawal, the account owner is responsible for federal income tax and applicable state and local taxes on the taxable amount of the withdrawal. Distributions from a Traditional NYCE IRA may be fully or partially taxable, depending on whether the Traditional NYCE IRA account includes any non-deductible contributions.

A Qualified Distribution from the Roth NYCE IRA is income-tax free. A Qualified Distribution is any payment or distribution from a Roth NYCE IRA account that meets the following requirements:

It is made after the 5-year period beginning with the first taxable year for which an account was established, AND the payment or distribution is:

1. made on or after the date the account owner reaches age 59½, or
2. made because the account owner is disabled, or
3. made to a beneficiary or to the account owner's estate after his or her death.

If the Roth NYCE IRA account owner receives a distribution from his or her account that is not a Qualified Distribution, the earnings portion of it may be subject to applicable federal, state and local taxes along with an early withdrawal penalty.

A Traditional NYCE IRA account owner must start receiving withdrawals from his or her account by April 1st of the year following the year in which the account owner reaches age 70½ (Required Minimum Distributions).

Roth NYCE IRA accounts are not subject to Required Minimum Distributions and account owners can leave amounts in their Roth NYCE IRA as long as they live. Upon the death of a NYCE IRA account owner, the assets in his or her Roth NYCE IRA will be paid to his or her designated beneficiaries.

Method of Withdrawal for Direct Payment

If a NYCE IRA account owner chooses to take direct payments, the following methods of distribution are available under the Plans:

1. Full withdrawal; or
2. A specified Amount Certain of a NYCE IRA account; or
3. Substantially equivalent monthly, quarterly, semi-annual or annual payments; or
4. A specified Amount Certain of a NYCE IRA account, with the remaining balance paid in substantially equivalent monthly, quarterly, semi-annual or annual payments.

Rollovers Out of the NYCE IRA

If a NYCE IRA account owner chooses to roll over his or her NYCE IRA account, or a portion thereof, it must be to an eligible retirement plan (457, 401(k), 403(b), 401(a), or rollover IRA).

Election of Length of Withdrawal

If a NYCE IRA owner elects payments, he or she may specify either: (1) the total number of payments, or (2) the dollar amount of each payment. In either case, distributions cannot be paid over a period of time which exceeds the life expectancy of the account owner or, in certain circumstances, the joint life expectancy of the account owner and a “designated beneficiary” (as defined by the Code). Payments will be recalculated annually and will be paid until the account is exhausted.

Distribution Elections by Beneficiaries

Beneficiaries of NYCE IRA accounts may select how to receive distributions from the decedent’s account by the submission of a NYCE IRA Beneficiary Withdrawal Form.

Spousal beneficiaries have the option of establishing an inherited NYCE IRA beneficiary account from assets they inherit from their deceased spouses. With an inherited NYCE IRA account, the amount of the Required Minimum Distributions will be based on age and will be recalculated each year. Surviving spouses older than age 70½ must begin taking

Required Minimum Distributions by December 31st of the year following the spouse’s death. Spouses younger than age 70½, can delay Required Minimum Distributions until the deceased account owner would have turned age 70½. Surviving spouses also have the option to roll over their inherited NYCE IRA proceeds into their own new or existing IRA and treat the assets as if they were their own. Spouses can also consolidate their inherited NYCE IRA proceeds into their existing Spousal NYCE IRA account.

Non-spousal beneficiaries of a NYCE IRA account will control both how the inherited assets are invested and to whom they pass upon death. Required Minimum Distributions will also generally be based on their own life expectancy and distribution must begin by December 31st of the year following the deceased participant’s death.

Introduction to the Financial Section

The management of The City of New York Deferred Compensation Plan is responsible for establishing and maintaining procedures to administer and oversee Plan operations. An internal control structure is designed to provide reasonable assurance that the assets of the system are safeguarded against loss, theft, or misuse, and that adequate accounting data are compiled to allow for the preparation of financial statements in conformity with generally accepted accounting principles.

Furthermore, the concept of reasonable assurance recognizes that:

1. the cost of a control should not exceed the benefits likely to be derived from it; and
2. the valuation of cost and benefits requires estimates and judgment by management.

To be in accordance with these principles, an audit should be viewed as independent and impartial, by knowledgeable third parties. An audit includes examining, on a test basis, evidence supporting transactions recorded in the accounting and operations records, including assessing the estimates, judgments and decisions made by management.



CliftonLarsonAllen LLP
CLAconnect.com

Members of the Board and Participants of
the Deferred Compensation Plan for Employees of
The City of New York and Related Agencies and Instrumentalities
New York City, New York

Report on the Financial Statements

We have audited the accompanying statements of fiduciary net position and statements of changes in fiduciary net position of the Deferred Compensation Plan for Employees of the City of New York and Related Agencies and Instrumentalities (the "457 Plan," the "401(k) Plan," the New York City Employee Individual Retirement Account "NYCE IRA," and the "401(a) Plan," or, collectively, the "Plans") as of and for the year ended December 31, 2018, and the related notes to the financial statements, which collectively comprise the Plans' basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

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

Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the Plans as of December 31, 2018, and the respective changes in fiduciary net position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Prior Period Financial Statements

The financial statements of the Plans as of and for the year ended December 31, 2017 were audited by other auditors whose report dated June 12, 2018, expressed an unmodified opinion on those statements.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis on

pages 23-27 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the Plans' basic financial statements. The introductory section, combining schedules of Plan net position as of December 31, 2018 and 2017, schedules of cash receipts and disbursements, administrative expenses and recordkeeping/loan fees, and investment management fees, investment options and statistical sections, and summary of administrative revenues and expenses as listed in the table of contents, are presented for purposes of additional analysis and are not a required part of the basic financial statements.

The combining schedules of Plan net position as of December 31, 2018, the schedules of cash receipts and disbursements, administrative expenses and recordkeeping/loan fees, and investment management fees are the responsibility of management and were derived from and relate directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the information is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The Plans' basic financial statements for the year ended December 31, 2017 were audited by other auditors whose report thereon dated June 12, 2018 expressed unmodified opinions on the respective financial statements. The report of the other auditors dated June 12, 2018 stated that the schedules of cash receipts and disbursements, administrative expenses and recordkeeping/loan fees, and investment management fees for the year ended December 31, 2017 were subjected to the auditing procedures applied in the audit of the 2017 basic financial statements and certain additional auditing procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare those basic financial statements or those basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America and, in their opinion, was fairly stated in all material respects in relation to the basic financial statements as a whole for the year ended December 31, 2017.

The introductory, investment options, and statistical sections, and the summary of administrative revenues and expenses have not been subjected to the auditing procedures applied in the audit of the basic financial statements, and accordingly, we do not express an opinion or provide any assurance on it.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated June 6, 2019, on our consideration of the Plans' internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of Plans' internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering Plans' internal control over financial reporting and compliance.

CliftonLarsonAllen LLP

CliftonLarsonAllen LLP

Baltimore, Maryland
June 6, 2019

Using These Financial Statements

This discussion and analysis of the Deferred Compensation Plan for Employees of The City of New York and Related Agencies and Instrumentalities (the 457, the 401(k), the 401(a) Plans, and the NYCE IRA employee benefit plans (collectively, the “Plans”)) financial performance provides an overview of the Plans’ financial activities as of and for the years ended December 31, 2018 and 2017. Please read it in conjunction with the Plans’ financial statements beginning on page 28.

The financial statements consist of two basic financial statements and the notes to the financial statements. The statements of plan fiduciary net position and the statements of changes in plan fiduciary net position (on page 28) provide information about each of the Plans. These statements are prepared using the accrual basis of accounting. All of the current year’s revenues and expenses are recorded when earned or incurred regardless of when cash is received or paid.

457 Plan, 401(k) Plan, NYCE IRA and 401(a) Plan History

457 Plan

The 457 Plan was established in 1986 to provide employees of The City of New York and Related Agencies and Instrumentalities the ability to defer a portion of current earnings on a pre-tax basis. The 457 Plan had 146,660, 141,179 and 134,877 participants as of December 31, 2018, 2017 and 2016, respectively. This represents an increase of 11,783 participants since 2016.

401(k) Plan

The 401(k) Plan was established in 2002 and, as a result, employees have another savings option for deferrals. The 401(k) Plan had 54,288, 50,080 and 45,749 participants as of December 31, 2018, 2017 and 2016, respectively. This represents an increase of 8,539 participants since 2016.

NYCE IRA

The New York City Employee Individual Retirement Account (NYCE IRA) was established in 2006 to offer City employees and their spouses, as well as City retirees and their spouses, a further retirement savings vehicle which they can use to make contributions, consolidate their retirement assets through rollovers and deposit their income tax refunds. The NYCE IRA had 4,883, 4,558 and 4,291 account holders as of December 31, 2018, 2017 and 2016, respectively. This represents an increase of 592 account holders since 2016.

401(a) Plan

The 401(a) Plan began accepting employer contributions in 2007 from The City of New York for eligible members of the Lieutenants Benevolent Association (“LBA”). In addition to the members of the LBA, in 2011, The City of New York employees who were members of the Captains Endowment Association (“CEA”) had employer contributions made on their behalf to the 401(a) Plan. The 401(a) Plan had 3,028, 3,060 and 3,097 participants as of December 31, 2018, 2017 and 2016, respectively.

Self-Directed Brokerage Account

The Plans offer the option for 457 Plan and 401(k) Plan participants to invest in a Self-Directed Brokerage (SDB) account, opening up the opportunity for participants to invest in over 11,000 mutual funds outside of the Plans’ core investment options, including a broad range of no transaction fee (NTF) funds. Starting in 2017, 457 Plan and 401(k) Plan participants were able to invest in exchange-traded funds (ETFs). The maximum percentage of account balance that can be transferred within the 457 or 401(k) plans into the SDB option is 20% and participants are required to have a minimum of \$5,000 in either their 457 or 401(k) to be eligible to enroll in this option. As of December 31, 2018 and 2017, the SDB option had over \$32 million and \$33 million in assets, respectively.

Management Discussion and Analysis (MD&A) (Cont'd)

For Years Ended December 31, 2018 and 2017

457 Plan

Plan Assets, Deferrals and Deductions

The Plan Fiduciary Net Position exceeded \$16 billion as of December 31, 2018. The number of participants increased from 134,877 participants at December 31, 2016 to 146,660 participants at December 31, 2018. Four of the seven Core Investment Options matched or exceeded its benchmark in 2018. The 457 Plan had a loss of \$.7 billion in 2018 and had gains of \$2.1 billion and \$1.2 billion in 2017 and 2016, respectively.

December 31 (in thousands)

Statements of Plan Fiduciary Net Position

	2018	2017	2016
Total assets	\$ 16,405,958	\$ 17,038,664	\$ 14,809,800
Total liabilities	\$ 4,614	\$ 6,217	\$ 5,460
Plan Fiduciary Net Position	\$ 16,401,344	\$ 17,032,447	\$ 14,804,340
Additions (Deductions)			
Employee contributions	\$ 710,703	\$ 697,028	\$ 630,183
Appreciation (Depreciation) in fair value	(672,441)	2,146,188	1,176,320
Investment management fees	(28,298)	(28,105)	(25,536)
Custodial fees	(1,129)	(1,187)	(969)
Total Plan additions, net of investment management and custodial fees	\$ 8,835	\$ 2,813,924	\$ 1,779,998
Deductions			
Distributions to participants	\$ 625,702	\$ 573,108	\$ 521,331
Recordkeeping/Loan fees	6,473	6,104	5,601
Administrative expenses	7,763	6,605	6,820
Total Plan deductions	\$ 639,938	\$ 585,817	\$ 533,752
Increase (Decrease) in Plan Fiduciary Net Position	\$ (631,103)	\$ 2,228,107	\$ 1,246,246

401(k) Plan

Plan Assets, Deferrals and Deductions

The Plan Fiduciary Net Position exceeded \$3 billion at December 31, 2018. The number of participants increased from 45,749 participants at December 31, 2016 to 54,288 at December 31, 2018. Employee contributions and rollovers to the 401(k) Plan has increased from \$256 million in 2016 to \$303 million in 2018. Appreciation (Depreciation) in fair value was \$(123) million, \$335 million, and \$167 million in 2018, 2017 and 2016, respectively.

December 31 (in thousands)

Statements of Plan Fiduciary Net Position

	2018	2017	2016
Total assets	\$ 3,014,258	\$ 2,944,286	\$ 2,422,681
Total liabilities	\$ 1,642	\$ -	\$ 765
Plan Fiduciary Net Position	\$ 3,012,616	\$ 2,944,286	\$ 2,421,916
Additions (Deductions)			
Employee contributions and rollovers	\$ 302,721	\$ 283,719	\$ 255,873
Appreciation (Depreciation) in fair value	(122,749)	334,792	167,185
Investment management fees	(5,203)	(4,983)	(4,344)
Custodial fees	(203)	(204)	(129)
Total Plan additions, net of investment management and custodial fees	\$ 174,566	\$ 613,324	\$ 418,585
Deductions			
Distributions to participants	\$ 104,001	\$ 89,181	\$ 74,958
Recordkeeping/Loan fees	849	752	1,008
Administrative expenses	1,386	1,021	980
Total Plan deductions	\$ 106,236	\$ 90,954	\$ 76,946
Increase in Plan Fiduciary Net Position	\$ 68,330	\$ 522,370	\$ 341,639

NYCE IRA

Plan Assets, Deferrals and Deductions

The Plan Fiduciary Net Position has increased from \$274 million since December 31, 2016 to \$339 million at December 31, 2018. The number of account holders in the NYCE IRA at December 31, 2018, 2017 and 2016 was 4,883, 4,558 and 4,291, respectively. Employee contributions and rollovers increased from \$34 million to \$40 million in 2017 and then decreased to \$37 million in 2018.

<i>December 31 (in thousands)</i>		2018	2017	2016
Statements of Plan Fiduciary Net Position				
Total assets	\$	339,400	\$ 327,947	\$ 274,674
Total liabilities	\$	354	274	214
Plan Fiduciary Net Position	\$	339,046	\$ 327,673	\$ 274,460
Additions (Deductions)				
Employee contributions and rollovers	\$	36,721	\$ 39,883	\$ 33,999
Appreciation (Depreciation) in fair value		(8,729)	30,619	15,514
Investment management fees		(646)	(620)	(547)
Custodial fees		(23)	(23)	(15)
Total Plan additions, net of investment management and custodial fees	\$	27,323	\$ 69,859	\$ 48,951
Deductions				
Distributions to participants	\$	15,741	\$ 16,483	\$ 14,439
Recordkeeping/Loan fees		61	53	84
Administrative expenses		148	110	101
Total Plan deductions	\$	15,950	\$ 16,646	\$ 14,624
Increase in Plan Fiduciary Net Position	\$	11,373	\$ 53,213	\$ 34,327

401(a) Plan

Plan Assets, Deferrals and Deductions

The Plan Fiduciary Net Position has increased from \$21 million since the end of 2016 to \$23 million at December 31, 2018. The number of participants in the 401(a) Plan at December 31, 2018, 2017 and 2016 was 3,028, 3,060, and 3,097, respectively. Contributions were \$23,000 per year during 2018, 2017 and 2016. Employer contributions were \$35 per participant in 2016, 2017, and 2018 for the Captains Endowment Association members.

<i>December 31 (in thousands)</i>		2018	2017	2016
Statements of Plan Fiduciary Net Position				
Total assets	\$	22,618	\$ 24,216	\$ 20,807
Total liabilities	\$	1	-	-
Plan Fiduciary Net Position	\$	22,617	\$ 24,216	\$ 20,807
Additions (Deductions)				
Contributions	\$	23	\$ 23	\$ 23
Appreciation (Depreciation) in fair value		(1,283)	3,761	2,120
Investment management fees		(39)	(37)	(33)
Total Plan additions (deductions) , net of investment management fees	\$	(1,299)	\$ 3,747	\$ 2,110
Deductions				
Distributions to participants	\$	296	\$ 331	\$ 304
Recordkeeping/Loan fees		4	7	3
Total Plan deductions	\$	300	\$ 338	\$ 307
Increase (Decrease) in Plan Fiduciary Net Position	\$	(1,599)	\$ 3,409	\$ 1,803

Management Discussion and Analysis (MD&A) (Cont'd)

For Years Ended December 31, 2018 and 2017

Plans' Activities

The combined Plan Fiduciary Net Position at December 31, 2018, 2017 and 2016 exceeded \$19 billion, \$20.3 billion and \$17.5 billion, respectively. The Plans had a combined net investment loss of \$.8 billion in 2018. This compares to a net investment income of \$2.4 billion in 2017 and \$1.3 billion in 2016. The Stable Income Fund was the only Fund with a positive return for the year ending December 31, 2018. Total deferrals of compensation and participant rollovers exceeded \$1 billion in 2018.

Fund Performance

Participants must choose to invest their payroll deductions into one or more of the following funds (except Tips¹):

Core Fund Name	2018		2017		2016	
	Annual Return	Market Benchmark	Annual Return	Market Benchmark	Annual Return	Market Benchmark
Stable Income Fund	2.1%	3.5%	1.9%	2.4%	1.9%	1.8%
Bond Index Fund ²	0.0%	0.0%	3.7%	3.5%	2.3%	2.6%
Equity Index Fund	(4.4)%	(4.4)%	21.8%	21.8%	12.0%	12.0%
Global Socially Responsible Index Fund ³	(6.7)%	(6.5)%	25.0%	25.4%	8.2%	8.9%
Mid-Cap Equity Index Fund	(11.1)%	(11.1)%	16.2%	16.2%	20.7%	20.7%
International Equity Fund	(15.5)%	(14.2)%	34.8%	27.8%	2.5%	5.0%
Small-Cap Equity Fund	(7.1)%	(11.0)%	18.0%	14.6%	18.3%	21.3%
Pre-Arranged Portfolio Name						
Static Allocation Fund	(0.4)%	0.4%	6.1%	6.1%	4.4%	4.3%
2005 Fund	(0.7)%	0.1%	7.3%	7.1%	4.9%	5.0%
2010 Fund	(1.8)%	(1.2)%	9.5%	8.9%	5.5%	5.8%
2015 Fund	(2.8)%	(2.3)%	11.9%	11.0%	6.3%	6.6%
2020 Fund	(4.2)%	(3.8)%	15.3%	13.8%	7.2%	7.7%
2025 Fund	(5.7)%	(5.4)%	18.3%	16.6%	8.0%	8.5%
2030 Fund	(6.6)%	(6.2)%	20.3%	18.5%	8.5%	9.0%
2035 Fund	(7.2)%	(6.8)%	21.8%	19.8%	9.0%	9.5%
2040 Fund	(7.7)%	(7.3)%	22.8%	20.7%	9.3%	9.8%
2045 Fund	(8.0)%	(7.5)%	23.6%	21.4%	9.6%	10.0%
2050 Fund	(8.7)%	(8.0)%	24.8%	22.4%	10.1%	10.4%
2055 Fund	(9.2)%	(8.4)%	25.2%	23.0%	10.0%	10.6%
TIPS ¹	(1.6)%	(1.3)%	3.2%	3.0%	4.8%	4.7%

¹TIPS are included in some of the Pre-Arranged Portfolios, but are not available as a core investment option.

²The Bond Fund was transitioned to the Bond Index Fund during the first quarter of 2018.

³The Global Socially Responsible Fund was transitioned to a Global Socially Responsible Index Fund as of the first quarter of 2016.

Overall Fund Review

Markets were mostly negative for the 2018 calendar year as investor sentiment weakened due to signs of slowing global economic growth. Domestic equities had generated strong results through the end of the third quarter, but gave up all their gains for the year late in the fourth quarter of 2018. The abrupt sell off in the fourth quarter resulted in the first negative calendar year for US equities since 2008. The negative results were driven primarily by macroeconomic headlines and skittish investor sentiment around the durability of the 9-year bull-market plus concerns that the US Federal Reserve had gone too far down their path of raising interest rates. Outside of the US, developed and emerging market equity returns were also negative for 2018 due to a slowdown in European and Chinese economic growth, trade concerns with the United States and uncertainty around the on-going political drama of Brexit. The broad fixed income market ended 2018 flat. Initially, fixed income assets had generated negative returns due to the Federal Reserve's gradual policy of increasing interest rates. The 10-year Treasury yield began 2018 at 2.4%, peaked in November at 3.2%, and ended the year at 2.7%. By the end of the year, fixed income investors were increasingly becoming skeptical that the Federal Reserve would pursue additional rate increases as the Fed signaled that they were moving to a data-dependent, wait and see approach.

Most of the investment options for The City of New York Deferred Compensation Plans experienced negative returns for the calendar year ending December 31, 2018. For the year, the Equity Index Fund returned (4.4) %, the Small Cap Fund returned (7.1) %, and the Mid Cap Index Fund returned (11.1) %. Similarly, the International Equity Fund returned (15.5) % for the year and the Global Socially Responsible Index Fund returned (6.7) %. The Bond Index Fund was flat for the year, and the Plan's Stable Income Fund was isolated from the spike in financial market volatility and was the sole positive investment option, returning 2.1% for the year.

~ END ~

Statements of Plan Fiduciary Net Position
December 31, 2018 and 2017 (in thousands)

	457 Plan		401(k) Plan		NYCE IRA		401(a) Plan	
	2018	2017	2018	2017	2018	2017	2018	2017
ASSETS								
Investments: (Notes 1, 2 and 3)								
Stable Income Fund	\$ 4,863,238	\$ 4,695,121	\$ 1,032,085	\$ 936,629	\$ 166,302	\$ 151,790	\$ 2,929	\$ 2,828
Bond Index Fund	691,691	651,852	199,505	179,561	15,853	14,393	659	635
Equity Index Fund	5,365,076	5,736,390	778,111	785,093	77,241	79,584	9,624	10,389
Global Socially Responsible Index Fund	331,073	361,793	42,207	43,835	3,003	3,058	442	501
Mid-Cap Equity Index Fund	891,813	1,008,628	224,869	249,183	16,526	18,598	1,306	1,513
International Equity Fund	1,263,326	1,436,493	310,173	335,608	23,735	27,939	1,799	2,133
Small-Cap Equity Fund	2,442,513	2,619,053	301,375	303,696	27,694	24,811	5,533	5,918
Treasury Inflation Protected Securities (TIPS)	292,654	265,894	86,594	75,915	8,923	7,709	320	296
Self-Directed Brokerage Option	28,093	29,900	4,592	4,746	-	-	-	-
Total investments	\$ 16,169,477	\$ 16,805,124	\$ 2,979,511	\$ 2,914,266	\$ 339,277	\$ 327,882	\$ 22,612	\$ 24,213
Participant loans receivable (Note 4)	218,126	215,045	30,949	27,987	-	-	-	-
Other assets	2,152	1,699	1,893	1,149	-	-	6	3
Cash and cash equivalents	16,203	16,796	1,905	884	123	65	-	-
Total assets	\$ 16,405,958	\$ 17,038,664	\$ 3,014,258	\$ 2,944,286	\$ 339,400	\$ 327,947	\$ 22,618	\$ 24,216
LIABILITIES								
Accounts payable and accrued expenses	4,614	6,217	1,642	-	354	274	1	-
Total liabilities	\$ 4,614	\$ 6,217	\$ 1,642	\$ -	\$ 354	\$ 274	\$ 1	\$ -
Plan Fiduciary Net Position Restricted for Plan Benefits	\$ 16,401,344	\$ 17,032,447	\$ 3,012,616	\$ 2,944,286	\$ 339,046	\$ 327,673	\$ 22,617	\$ 24,216

See Notes to Financial Statements.

Statements of Changes in Plan Fiduciary Net Position
Years Ended December 31, 2018 and 2017 (in thousands)

	457 Plan		401(k) Plan		NYCE IRA		401(a) Plan	
	2018	2017	2018	2017	2018	2017	2018	2017
ADDITIONS (DEDUCTIONS) TO FIDUCIARY NET POSITION:								
Net investment income:								
Appreciation (Depreciation) in fair value	\$ (672,441)	\$ 2,146,188	\$ (122,749)	\$ 334,792	\$ (8,729)	\$ 30,619	\$ (1,283)	\$ 3,761
Investment management fees	(28,298)	(28,105)	(5,203)	(4,983)	(646)	(620)	(39)	(37)
Custodial fees	(1,129)	(1,187)	(203)	(204)	(23)	(23)	-	-
Total net investment income (loss)	\$ (701,868)	\$ 2,116,896	\$ (128,155)	\$ 329,605	\$ (9,398)	\$ 29,976	\$ (1,322)	\$ 3,724
Contributions:								
Deferrals of compensation	\$ 710,703	\$ 697,028	\$ 186,082	\$ 173,966	\$ 4,452	\$ 4,658	\$ 23	\$ 23
Participant rollovers	-	-	116,639	109,753	32,269	35,225	-	-
	710,703	697,028	302,721	283,719	36,721	39,883	23	23
Total Additions (Deductions)	\$ 8,835	\$ 2,813,924	\$ 174,566	\$ 613,324	\$ 27,323	\$ 69,859	\$ (1,299)	\$ 3,747
DEDUCTIONS FROM FIDUCIARY NET POSITION:								
Benefits paid to participants and beneficiaries	\$ 625,702	\$ 573,108	\$ 104,001	\$ 89,181	\$ 15,741	\$ 16,483	\$ 296	\$ 331
Recordkeeping/Loan Fees	6,473	6,104	849	752	61	53	4	7
Administrative expenses	7,763	6,605	1,386	1,021	148	110	-	-
Total deductions	\$ 639,938	\$ 585,817	\$ 106,236	\$ 90,954	\$ 15,950	\$ 16,646	\$ 300	\$ 338
Increase (Decrease) in fiduciary net position	(631,103)	2,228,107	68,330	522,370	11,373	53,213	(1,599)	3,409
Plan Fiduciary Net Position, Beginning of year	17,032,447	14,804,340	2,944,286	2,421,916	327,673	274,460	24,216	20,807
Plan Fiduciary Net Position, End of year	\$ 16,401,344	\$ 17,032,447	\$ 3,012,616	\$ 2,944,286	\$ 339,046	\$ 327,673	\$ 22,617	\$ 24,216

See Notes to Financial Statements.

Note 1 - Description of Plans and Significant Accounting Policies

Plan Description

The following description of the Deferred Compensation Plan for Employees of The City of New York and Related Agencies and Instrumentalities (the “457 Plan,” the “401(k) Plan,” the New York City Employee Individual Retirement Account “NYCE IRA” and the “401(a) Plan” or collectively, the “Plans”) provides only general information. Participants should refer to the respective Plan documents for a more complete description of the Plans’ provisions.

General

The 457 and 401(k) Plans are defined contribution plans which permit employees of The City of New York (the “City”) and Related Agencies and Instrumentalities to defer receipt of a portion of their current salary until future years. The 457 Plan is intended to satisfy the requirements for an “eligible deferred compensation plan” under Section 457 of the Internal Revenue Code of 1986, as amended (the “Code”), and is comprised of pre-tax and Roth (post-tax) components. The 401(k) Plan is a “qualified plan” under Section 401(k) of the Code and is comprised of the pre-tax and Roth components. The NYCE IRA is a deemed IRA under section 408(q) of the Code. The 401(a) Plan is a defined contribution plan that is qualified under Section 401(a) of the Code and is a governmental plan under Section 414(d) of the Code.

The NYCE IRA is comprised of a traditional IRA and a Roth IRA, both of which are available to current and former City employees (with a termination date of 1985 or after) and their spouses as an additional retirement savings vehicle. Employees and their spouses can use the NYCE IRA to make contributions and/or consolidate their retirement assets through rollovers.

Assets in the Plans are held in a custodial account for the exclusive benefit of the Plans’ participants and their beneficiaries.

The Plans are reported as other employee benefit trust funds within The City of New York’s Comprehensive Annual Financial Report.

Employer Contributions

In 2007, as a result of collective bargaining agreements, the 401(a) Plan was established to accept employer contributions made on behalf of The City of New York employees who are members of the Lieutenants Benevolent Association (“LBA”) and the Captains Endowment Association (“CEA”).

Employer contributions to the 401(a) Plan for LBA ceased as of February 1, 2015. Employer contributions to the 401(a) Plan for CEA members were \$35 in 2018. Employer contributions were based on the collectively bargained agreements.

As of December 31, 2018 and 2017, all employer contributions have been received by the Plan. The 401(a) Plan had 3,028 participants as of December 31, 2018 and 3,060 participants as of December 31, 2017.

Participant Contributions

Participants in the 457 and 401(k) Plans could contribute up to \$18,500 in 2018 and \$18,000 in 2017 of “Includible Compensation” (as defined by the Code) to each plan. If an employee was age 50 or older, the employee was permitted to contribute up to \$24,500 in 2018 and \$24,000 in 2017 to each plan.

Participants in the NYCE IRA may make traditional and Roth contributions annually subject to a contribution limit. The yearly combined contribution limit for the traditional and Roth NYCE IRA was \$5,500 for 2018 and 2017, and if age 50 and older, \$6,500 for 2018 and 2017 of taxable compensation.

Vesting

Participants are fully vested in their account balances at all times.

Note 1 - Description of Plans and Significant Accounting Policies (continued)

Participant Loans

Participants may borrow from their pre-tax 457 and/or pre-tax 401(k) accounts. Loans are not permitted from the NYCE IRA and 401(a) Plans. The minimum loan amount is \$2,500. The maximum amount of an approved loan shall not exceed the lesser of: (i) 50% of the participant's 457 or 401(k) Plan account balance; or (ii) \$50,000 less the combined balance of all outstanding loans a participant may have from pension loans, 403(b) and other Deferred Compensation Plan loans. The loans are secured by the balance in the participant's account and bear interest equal to one percentage point above the prime interest rate as published in The Wall Street Journal on the first business day of each month, or such other reasonable rate of interest as the Board shall determine. Principal and interest are paid through payroll deductions. All loans are to be repaid over a nonrenewable period not to exceed five years.

Participants' Accounts

Each participant's account is credited with the participant's contributions as remitted, with a daily allocation of earnings on the investment options in which the participant is invested. A participant's 401(a) account is credited with employer contributions only. The account is charged with a quarterly administrative expense fee and a daily reduction of the net asset value of an annualized four basis points, or 0.04%, for the years ended December 31, 2018 and 2017. Each participant's account balance is invested in accordance with the investment option(s) selected by the participant.

Payment of Benefits

457 Plan

A participant's 457 deferred compensation account balance is available upon severance from City service, attainment of age 70½, death, or the occurrence of certain unforeseeable emergencies as set forth by the Code. A participant may elect to receive: 1) one lump sum amount equal to the value of the account, 2) a specified amount certain, 3) periodic payments paid in substantially equivalent installments monthly, quarterly, semi-annually or annually over a period not exceeding the life expectancy of the participant, or, in certain circumstances, the joint life expectancy of the participant and a "designated beneficiary" (as defined by the Code), or 4) an amount certain with the balance paid as periodic payments. Funds can also be rolled over into an Eligible Retirement Plan (as defined in the Code) or an Individual Retirement Account (IRA).

Certain eligible participants are entitled to a full distribution of their account prior to severance from service if the total account balance does not exceed \$5,000; there were no contributions or loans during the two-year period ending on the date of distribution; and there have been no prior distributions of this type.

457 Plan participants are eligible to use their 457 Plan assets as a source of funding for the purchase of permissive service credits (as defined in Section 415(n) (3) (A) of the Code) via a direct transfer in accordance with procedures established by the 457 Plan.

401(k) Plan

A participant's 401(k) deferred compensation account balance is available upon severance from City service, attainment of age 59½, death, or the occurrence of an immediate and heavy financial need as defined by the Code. 401(k) Plan participants age 59½ and older are eligible to take distributions, without penalty, from their 401(k) accounts while still in service. A participant may elect to receive: 1) one lump sum amount equal to the value of the account, 2) a specified amount certain, 3) periodic payments paid in substantially equivalent installments monthly, quarterly, semi-annually or annually over a period not exceeding the life expectancy of the participant, or, in certain circumstances, the joint life expectancy of the participant and a "designated beneficiary" (as defined by the Code), or 4) an amount certain with the balance paid as periodic payments. Upon severance from City service, or attainment of age 59½, funds may be rolled over into an Eligible Retirement Plan (as defined in the Code), or an IRA.

401(k) Plan participants are eligible to use their 401(k) Plan assets as a source of funding for the purchase of permissive service credits (as defined in Section 415(n)(3)(A) of the Code) via a direct transfer in accordance with procedures established by the 401(k) Plan.

Note 1 - Description of Plans and Significant Accounting Policies (continued)

NYCE IRA

The owner may elect to receive: 1) one lump sum amount equal to the value of the account, 2) a specified amount certain, 3) periodic payments paid in substantially equivalent installments monthly, quarterly, semi-annually or annually over a period not exceeding the life expectancy of the participant, or, in certain circumstances, the joint life expectancy of the participant and a “designated beneficiary” (as defined by the Code), or 4) an amount certain with the balance paid as periodic payments. Funds withdrawn prior to age 59½ may be subject to a penalty. Funds may be transferred to another Eligible Retirement Plan (as defined in the Code) or an IRA at any time.

401(a) Plan

A participant’s 401(a) deferred compensation account balance is available upon severance from City service, attainment of age 62, or death. 401(a) Plan participants age 62 and older are eligible to take distributions, without penalty, from their 401(a) accounts while still in service. A participant may elect to receive: 1) one lump sum amount equal to the value of the account, 2) a specified amount certain, 3) periodic payments paid in substantially equivalent installments monthly, quarterly, semi-annually or annually over a period not exceeding the life expectancy of the participant, or, in certain circumstances, the joint life expectancy of the participant and a “designated beneficiary” (as defined by the Code), or 4) an amount certain with the balance paid as periodic payments. Upon severance from service, or attainment of age 62, funds may be rolled over into an Eligible Retirement Plan (as defined in the Code), or an IRA.

Basis of Presentation

The Plans present their financial statements on the accrual basis of accounting in accordance with generally accepted accounting principles as promulgated by the Governmental Accounting Standards Board.

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. Actual results could differ from those estimates.

Plans’ Termination

The Plans’ Board has the right under each of the Plans to amend, suspend or terminate the Plans, any deferrals thereunder, or add or eliminate any investment option, in whole or in part. Upon termination of the Plans all amounts deferred shall be payable to participants or their beneficiaries as provided in the Plans’ controlling document.

Income Tax Status

The Plans are periodically reviewed and updated as required by federal law and, at the time of this publication, are in compliance with the applicable requirements of the Code and, therefore, qualify as tax-favored plans.

Cash and Cash Equivalents

Cash includes cash on hand and demand deposits with financial institutions. All highly liquid investments with a maturity of 90 days or less when purchased are considered to be cash equivalents. Cash equivalents are stated at cost, which approximates fair value.

Investment Policy

The Plans’ investment policy was developed by the Board. The Plans’ objective in providing multiple investment fund options is to provide participants with investment fund options that are diversified across a range of risk levels, asset classes and investment strategies in the aggregate in order to accommodate the varying levels of risk tolerance of the participants and to allow participants to construct portfolios tailored to meet their particular financial goals.

Note 1 - Description of Plans and Significant Accounting Policies (continued)

The Board has overall responsibility for establishing and maintaining this investment policy, selecting the investment options available under the Plans, regularly evaluating the Plans' investment performance, providing participants with investment education and communications regarding the Plans and their investments, and ensuring that the assets of the Plans are in compliance with all applicable laws governing the operations of the Plans.

The Board has authorized the Plans to invest in the following investments:

- Stable Income Fund holds guaranteed investment contracts, separate accounts with insurance companies and wrapped managed fixed-income portfolios with the objective to invest in high quality fixed income securities with an emphasis on safety of principal and consistency of returns.
- Bond Index Fund is a passively managed fund and seeks to replicate the investment results, before fees and expenses, of the Bloomberg Barclays U.S. Aggregate Bond Index. The Fund is invested and reinvested primarily in a portfolio of debt securities with the objective of approximating as closely as practicable the total rate of return of the market for debt securities as defined by the Bloomberg Barclays U.S. Aggregate Bond Index. The Bond Fund was transitioned to the Bond Index Fund during the first quarter of 2018.
- Equity Index Fund passively invests in a portfolio of equity securities of companies listed on the U.S. securities exchanges or traded on the NASDAQ or over the counter with the objective of replicating the return of the S&P 500 Index.
- Global Socially Responsible Index Fund passively invests in equity securities of companies worldwide that meet specific financial, social and environmental requirements with the aim to approximate as closely as practicable the total rate of return of the MSCI ACWI SRI index.
- Mid-Cap Equity Index Fund passively invests in a portfolio of equity securities of mid-sized companies with the objective of replicating the composition and characteristics of the Standard and Poor's Mid-Cap 400 Index.
- International Equity Fund, using active and passive managers, invests in companies located outside the U.S. The primary emphasis of the portfolio is on relatively large to mid-capitalization stocks in developed and emerging market countries (countries included in the MSCI ACWI ex-US IMI Index). In addition, a portion of the portfolio's assets is invested in international small capitalization stocks.
- Small-Cap Equity Fund, using active and passive managers, invests primarily in small to medium capitalization domestic companies listed on the U.S. exchanges or traded on the NASDAQ or over the counter with the objective to provide long-term growth of capital. In the short-term these stocks may display substantial volatility.
- Treasury Inflation Protected Securities ("TIPS") invests primarily in inflation indexed bonds. TIPS are included in some of the pre-arranged portfolios, but are not available as a core investment option. The TIPS allocation helps protect against inflation and seeks to increase the risk-adjusted returns of the pre-arranged portfolios.
- Self-Directed Brokerage Option allows participants to invest a portion of their assets in mutual funds and ETFs offered outside the Plans (not available in the NYCE IRA and 401(a)).

The Plans also provide options called pre-arranged portfolios to provide diversified investment options for participants with different time horizons for expected withdrawals. Each portfolio consists of varying percentages of the existing investment options described above with the exception of the Global Socially Responsible Index Fund.

Contributions are allocated among investment options based on participant designations through the Plans' recordkeeper.

Risks and Uncertainties

The Plans provide for participant directed investments including a stable income fund which is composed of guaranteed investment contracts, separate accounts with insurance companies and wrapped managed fixed-income portfolios. The Plans' investments are exposed to various risks that are discussed in Note 2. Other risks may include sector and derivative risk. Due to the level of risk associated with certain investments and the level of uncertainty related to changes in the value of investments, it is at least reasonably possible that changes in risks in the near term could materially affect participants' account balances and the amounts reported in the Statements of Plan Fiduciary Net Position and the Statements of Changes in Plan Fiduciary Net Position.

Note 2 - Investments (in thousands)

The fair value of the Plan's investments at December 31, 2018 and 2017, segregated by funds, are as follows (in thousands):

	457 Plan		401(k) Plan		NYCE IRA		401(a) Plan	
	2018	2017	2018	2017	2018	2017	2018	2017
Stable Income Fund:								
American General Life	\$ 508,523	\$ 505,711*	\$ 107,920	\$ 100,885*	\$ 17,389 *	\$ 16,350*	\$ 306	\$ 304
Bank of New York Mellon	18,078	12,591	3,837	2,512	618	407	11	8
ICMA - RC	477,815	358,877	101,403	71,592	16,339	11,602*	288	216
Jackson National Life Insurance Company	158,432	169,062	33,623	33,726	5,418	5,466	95	102
Massachusetts Mutual	86,399	14,176	18,336	2,828	2,954	458	52	9
Metropolitan Life Insurance Company	1,008,461 *	998,846*	214,017*	199,260*	34,485 *	32,292*	607	602
Nationwide Life	468,666	463,212	99,461	92,406	16,026	14,975*	282	279
New York Life Insurance Company	129,244	192,960	27,428	38,494	4,420	6,238	78	116
Ohio National	111,216	114,213	23,602	22,784	3,803	3,692	67	69
Principal Life Insurance Company	104,813	99,125	22,244	19,774	3,584	3,205	63	60
Protective Life	16,520	38,416	3,506	7,664	565	1,242	10	23
Prudential Life Insurance Company	628,550	651,753	133,392	130,018	21,494*	21,071*	379	393
Transamerica Life	326,572	483,754	69,306	96,504	11,167	15,639*	197	291
United of Omaha	112,422	87,936	23,858	17,542	3,844	2,843	68	53
Minnesota Life	37,167	-	7,888	-	1,271	-	22	-
Voya Retirement Insurance & Annuity	670,360	504,489	142,264	100,640	22,925 *	16,310	404	303
	\$ 4,863,238	\$ 4,695,121	\$ 1,032,085	\$ 936,629	\$ 166,302	\$ 151,790	\$ 2,929	\$ 2,828
Bond Index Fund¹:								
Bank of New York Mellon	\$ 504	\$ 2,147	\$ 145	\$ 591	\$ 12	\$ 47	\$ -	\$ 2
BlackRock	3	13,011	1	3,584	-	287	-	13
BlackRock Illiquid	-	2	-	1	-	1	-	-
BlackRock Passive	691,184	636,685	199,359 *	175,383	15,841	14,058	659	620
Pacific Investment Management Company LLC	-	7	-	2	-	-	-	-
	\$ 691,691	\$ 651,852	\$ 199,505	\$ 179,561	\$ 15,853	\$ 14,393	\$ 659	\$ 635
Equity Index Fund:								
Bank of New York Mellon	\$ 5,365,076 *	\$ 5,736,390*	\$ 778,111 *	\$ 785,093*	\$ 77,241 *	\$ 79,584*	\$ 9,624 *	\$ 10,389*
Global Socially Responsible Index Fund:								
Aberdeen Asset Management, Inc.	\$ 79	\$ 83	\$ 10	\$ 10	\$ 1	\$ 1	\$ -	\$ -
BlackRock Active	330,994	361,710	42,197	43,825*	3,002	3,057 *	442	501
	331,073	361,793	42,207	43,835	3,003	3,058	442	501
Mid-Cap Equity Index Fund:								
Bank of New York Mellon	\$ 95	\$ 2,098	\$ 24	\$ 518	\$ 2	\$ 39	\$ -	\$ 3
State Street Global Advisors	-	1,006,530*	-	248,665*	-	18,559	-	1,510
Rhumbline	\$ 891,718 *	\$ -	\$ 224,845 *	\$ -	\$ 16,524	\$ -	\$ 1,306 *	\$ -
	891,813	1,008,628	224,869	249,183	16,526	18,598	1,306	1,513

¹The Bond Fund was transitioned to the Bond Index Fund during the first quarter of 2018.

Note 2 - Investments (continued) (in thousands)

	457 Plan		401(k) Plan		NYCE IRA		401(a) Plan	
	2018	2017	2018	2017	2018	2017	2018	2017
International Equity Fund:								
Bank of New York Mellon	\$ 143,495	\$ 4,731	\$ 35,231	\$ 1,105	\$ 2,697	\$ 92	\$ 204	\$ 7
Alliance Capital Management L.P.	285	295	70	70	5	6	-	1
Baillie Gifford Overseas Ltd.	486,949	594,895	119,556	138,985	9,148	11,570	693	883
Copper Rock	130,229	144,303	31,974	33,713	2,447	2,807	185	214
Mondrian Investment Partners, Ltd.	502,336	525,407	123,334	122,751	9,438	10,219	717	780
New Star Institutional Managers, Ltd.	25	26	6	6	-	-	-	-
Northern Trust Investments N.A.	7	8	2	2	-	-	-	-
State Street Bank and Trust Company	-	166,828	-	38,976	-	3,245	-	248
	\$ 1,263,326	\$ 1,436,493	\$ 310,173	\$ 335,608	\$ 23,735	\$ 27,939	\$ 1,799	\$ 2,133
Small-Cap Equity Fund:								
Bank of New York Mellon	\$ 777	\$ 3,288	\$ 96	\$ 381	\$ 9	\$ 31	\$ 2	\$ 7
Dimensional Fund Advisors, LP	480,097	565,967	59,238	65,628	5,443	5,362	1,088	1,279 *
State Street Bank and Trust Company	-	785,401	-	91,072	-	7,440	-	1,775 *
T. Rowe Price Associates, Inc.	598,227	637,872	73,813	73,965	6,783	6,043	1,355 *	1,441 *
Rhumline	764,776	-	94,363	-	8,671	-	1,732 *	-
Wellington Management Company, LLP	598,636	626,525	73,865	72,650	6,788	5,935	1,356 *	1,416 *
	\$ 2,442,513	\$ 2,619,053	\$ 301,375	\$ 303,696	\$ 27,694	\$ 24,811	\$ 5,533	\$ 5,918
Treasury Inflation Protected Securities:								
BNP Paribas	\$ 292,654	\$ 265,894	\$ 86,594	\$ 75,915	\$ 8,923	\$ 7,709	\$ 320	\$ 296
	\$ 16,141,384	\$ 16,775,224	\$ 2,974,919	\$ 2,909,520	\$ 339,277	\$ 327,882	\$ 22,612	\$ 24,213
Self-Directed Brokerage Option:**								
TD Ameritrade	28,093	29,900	4,592	4,746	N/A	N/A	N/A	N/A
Total	\$ 16,169,477	\$ 16,805,124	\$ 2,979,511	\$ 2,914,266	\$ 339,277	\$ 327,882	\$ 22,612	\$ 24,213

* Represents 5% or more of net position of the respective Plans.

** Participants manage their own accounts in the Self-Directed Brokerage Option.

Transfers out of the Plans' core investment options were assessed a 2% redemption fee on the amounts transferred into another fund within the previous 32 consecutive calendar days. Any amounts held longer than 32 consecutive calendar days were not assessed the redemption fee. The fees collected are reinvested back into the applicable fund for the benefit of participants in those funds. Lump sum withdrawals and periodic distributions do not incur the redemption fee, and payroll contributions held less than 32 days are not included in the calculation of the redemption fee if they are transferred out of a fund.

Note 2 - Investments (continued) (in thousands)

Net investment income, exclusive of custodial fees for the years ended December 31, 2018 and 2017, segregated by investment fund, was as follows:

	2018	Appreciation (Depreciation) in Fair Value	Investment Management Fees	Total
457 Plan	Stable Income Fund	\$ 115,470	\$ (12,574)	\$ 102,896
	Bond Index Fund ¹	1,411	(235)	1,176
	Equity Index Fund	(236,892)	(265)	(237,157)
	Global Socially Responsible Index Fund	(23,922)	(292)	(24,214)
	Mid-Cap Equity Index Fund	(118,051)	(191)	(118,242)
	International Equity Fund	(241,906)	(4,002)	(245,908)
	Small-Cap Equity Fund	(172,454)	(10,532)	(182,986)
	TIPS	(4,498)	(207)	(4,705)
	Self-Directed Brokerage Option	(2,207)	-	(2,207)
	Interest on Participant Loans	9,979	-	9,979
	Other	629	-	629
	Totals	\$ (672,441)	\$ (28,298)	\$ (700,739)
401(k) Plan	2017			
	Stable Income Fund	\$ 104,014	\$ (13,100)	\$ 90,914
	Bond Fund	24,624	(476)	24,148
	Equity Index Fund	996,557	(300)	996,257
	Global Socially Responsible Index Fund	70,940	(256)	70,684
	Mid-Cap Equity Index Fund	149,042	(184)	148,858
	International Equity Fund	387,634	(4,177)	383,457
	Small-Cap Equity Fund	391,344	(9,432)	381,912
	TIPS	8,894	(180)	8,714
	Self-Directed Brokerage Option	3,908	-	3,908
	Interest on Participant Loans	8,957	-	8,957
	Other	274	-	274
Totals	\$ 2,146,188	\$ (28,105)	\$ 2,118,083	
401(k) Plan	2018			
	Stable Income Fund	\$ 22,755	\$ (2,669)	\$ 20,086
	Bond Index Fund ¹	281	(68)	213
	Equity Index Fund	(43,933)	(38)	(43,971)
	Global Socially Responsible Index Fund	(3,108)	(37)	(3,145)
	Mid-Cap Equity Index Fund	(21,873)	(48)	(21,921)
	International Equity Fund	(44,607)	(982)	(45,589)
	Small-Cap Equity Fund	(32,621)	(1,300)	(33,921)
	TIPS	(812)	(61)	(873)
	Self-Directed Brokerage Option	(353)	-	(353)
	Interest on Participant Loans	1,381	-	1,381
	Other	141	-	141
Totals	\$ (122,749)	\$ (5,203)	\$ (127,952)	
401(k) Plan	2017			
	Stable Income Fund	\$ 19,256	\$ (2,613)	\$ 16,643
	Bond Fund	3,906	(131)	3,775
	Equity Index Fund	155,616	(41)	155,575
	Global Socially Responsible Index Fund	7,985	(31)	7,954
	Mid-Cap Equity Index Fund	23,290	(46)	23,244
	International Equity Fund	60,855	(976)	59,879
	Small-Cap Equity Fund	60,735	(1,094)	59,641
	TIPS	1,413	(51)	1,362
	Self-Directed Brokerage Option	542	-	542
	Interest on Participant Loans	1,141	-	1,141
	Other	53	-	53
Totals	\$ 334,792	\$ (4,983)	\$ 329,809	

¹The Bond Fund was transitioned to the Bond Index Fund during the first quarter of 2018.

Note 2 - Investments (continued) (in thousands)

	2018	Appreciation (Depreciation) in Fair Value	Investment Management Fees	Total
NYCE IRA	Stable Income Fund	\$ 3,818	\$ (430)	\$ 3,388
	Bond Index Fund ¹	25	(5)	20
	Equity Index Fund	(3,768)	(4)	(3,772)
	Global Socially Responsible Index Fund	(227)	(3)	(230)
	Mid-Cap Equity Index Fund	(1,881)	(4)	(1,885)
	International Equity Fund	(3,846)	(75)	(3,921)
	Small-Cap Equity Fund	(2,796)	(119)	(2,915)
	TIPS	(68)	(6)	(74)
	Other	14	-	14
	Totals	\$ (8,729)	\$ (646)	\$ (9,375)
	2017			
	Stable Income Fund	\$ 3,275	\$ (423)	\$ 2,852
	Bond Fund	342	(12)	330
	Equity Index Fund	13,644	(4)	13,640
	Global Socially Responsible Index Fund	536	(2)	534
	Mid-Cap Equity Index Fund	2,042	(3)	2,039
	International Equity Fund	5,330	(81)	5,249
	Small-Cap Equity Fund	5,319	(90)	5,229
	TIPS	125	(5)	120
	Other	6	-	6
Totals	\$ 30,619	\$ (620)	\$ 29,999	
401(a) Plan	2018			
	Stable Income Fund	\$ 64	\$ (8)	\$ 56
	Bond Index Fund ¹	2	-	2
	Equity Index Fund	(406)	-	(406)
	Global Socially Responsible Index Fund	(32)	-	(32)
	Mid-Cap Equity Index Fund	(201)	-	(201)
	International Equity Fund	(413)	(6)	(419)
	Small-Cap Equity Fund	(289)	(25)	(314)
	TIPS	(8)	-	(8)
	Totals	\$ (1,283)	\$ (39)	\$ (1,322)
	2017			
	Stable Income Fund	\$ 56	\$ (8)	\$ 48
	Bond Fund	45	-	45
	Equity Index Fund	1,834	(1)	1,833
	Global Socially Responsible Index Fund	100	-	100
	Mid-Cap Equity Index Fund	274	-	274
	International Equity Fund	712	(7)	705
	Small-Cap Equity Fund	724	(21)	703
	TIPS	16	-	16
	Totals	\$ 3,761	\$ (37)	\$ 3,724

¹The Bond Fund was transitioned to the Bond Index Fund during the first quarter of 2018.

Note 2 - Investments (continued) (in thousands)

As of December 31, 2018, the Plans had the following investments in fixed income investments:

Fixed Income Investments	457 Plan Fair Value (In thousands)	401(k) Plan Fair Value (In thousands)	NYCE IRA Fair Value (In thousands)	401(a) Plan Fair Value (In thousands)	Weighted Average Maturity (In years)
Stable Income Fund	\$ 4,863,238	\$ 1,032,085	\$ 166,302	\$ 2,929	3.67
Bond Index Fund ¹	\$ 691,691	\$ 199,505	\$ 15,853	\$ 659	4.78
TIPS	\$ 292,654	\$ 86,594	\$ 8,923	\$ 320	8.81
	\$ 5,847,583	\$ 1,318,184	\$ 191,078	\$ 3,908	

¹The Bond Fund was transitioned to the Bond Index Fund during the first quarter of 2018.

As of December 31, 2017, the Plans had the following investments in fixed income investments:

Fixed Income Investments	457 Plan Fair Value (In thousands)	401(k) Plan Fair Value (In thousands)	NYCE IRA Fair Value (In thousands)	401(a) Plan Fair Value (In thousands)	Weighted Average Maturity (In years)
Stable Income Fund	\$ 4,695,121	\$ 936,629	\$ 151,790	\$ 2,828	3.53
Bond Index Fund	\$ 651,852	\$ 179,561	\$ 14,393	\$ 635	8.04
TIPS	\$ 265,894	\$ 75,915	\$ 7,709	\$ 296	8.77
	\$ 5,612,867	\$ 1,192,105	\$ 173,892	\$ 3,759	

Interest Rate Risk

Interest rate risk is the risk that fixed income securities will decline in value because of an increase in interest rates; a fund with a longer average portfolio duration will be more sensitive to changes in interest rates than a fund with a shorter average portfolio duration. Investments held in the portfolio are limited to those issuers which meet stringent criteria with respect to diversification and credit quality. Duration limits are used to control the portfolio's exposure to interest rate changes. In accordance with the Plans' investment guidelines, the duration policy with regard to the Stable Income Fund is for a weighted average not to exceed 4 years. The weighted average duration for the year ended December 31, 2018 was 2.95 years and 3.02 years for the year ended December 31, 2017. For the Bond Index Fund, the duration policy is the weighted average of the portfolio between 75% to 125% in relation to the Barclays Aggregate Index benchmark. For the TIPS, the duration policy is within 75% to 125% in relation to the Barclays U.S. TIPS Index benchmark. Duration is a measure of the weighted average maturity of the portfolio, while statements of the stated maturity reflect the specific maturities of the individual securities held.

The lengths of investment maturities (in years), as shown by the percent of the rated portfolio, are as follows:

Years to Maturity Investment Type December 31, 2018	Investment Maturities			Years to Maturity Investment Type December 31, 2017	Investment Maturities		
	Zero to One Year	One to Five Years	More than Five Years		Zero to One Year	One to Five Years	More than Five Years
Stable Income fund	13%	62%	25%	Stable Income fund	13%	63%	24%
Bond Index Fund ¹	7%	64%	29%	Bond Fund	1%	41%	58%
TIPS	2%	27%	71%	TIPS	1%	37%	62%

¹The Bond Fund was transitioned to the Bond Index Fund during the first quarter of 2018.

Note 2 - Investments (continued) (in thousands)

Credit Risk

Credit risk is the risk that the fund could lose money if the issuer or guarantor of a fixed income security, or the counterparty to a derivative contract, is unable or unwilling to meet its financial obligations. The Plans' credit risks are limited to the Stable Income Fund, the Bond Index Fund, and TIPS. Overall, credit ratings for external investment funds that are comprised of the Stable Income Fund, the Bond Index Fund, and TIPS are not separately identified, although a summary of the ratings of the individual investments is provided below. In accordance with the Plans' investment policy, the Stable Income Fund investment option maintained a minimum weighted average quality of Aa2/AA by the median rating of the three major rating agencies (Moody's, Standard & Poor's and Fitch Investors Service). The Bond Index Fund investment option maintained a minimum average quality rating of A- by any one of the three major rating agencies. The TIPS (which may invest in securities other than U.S. Treasury securities) maintained a minimum average portfolio quality of AA+ using the middle rating of Moody's, Standard & Poor's and Fitch Investors Service. As of December 31, 2018 and 2017, the TIPS portfolio has maintained the minimum investment in inflation indexed bonds of 80% of net assets as required by the TIPS guidelines.

The quality ratings of investments, as described by nationally recognized statistical rating organizations, are as follows:

Investment Type	Ratings							Non Rated
	AAA	AA	A	BBB	Below BBB	Agency	US Treasury	
December 31, 2018								
Stable Income Fund	21%	16%	17%	12%	0%	8%	26%	0%
Bond Index Fund ¹	12%	6%	17%	14%	0%	1%	50%	0%
TIPS	2%	0%	0%	0%	0%	0%	98%	0%

¹The Bond Fund was transitioned to the Bond Index Fund during the first quarter of 2018.

Investment Type	Ratings							Non Rated
	AAA	AA	A	BBB	Below BBB	Agency	US Treasury	
December 31, 2017								
Stable Income Fund	24%	15%	18%	9%	0%	3%	31%	0%
Bond Fund	35%	3%	11%	13%	0%	2%	36%	0%
TIPS	0%	0%	0%	0%	0%	0%	100%	0%

Custodial Credit Risk

For investments, custodial credit risk is the risk that in the event of the failure of the counterparty, the Plans will not be able to recover the value of their investments or collateral securities that are in the possession of the outside party. Investment securities are exposed to custodial credit risk if the securities are uninsured, are not registered in the name of the Plans, and are held by either the counterparty or the counterparty trust department. All of the Plans' investments are held by the trustee in the Plans' names and, therefore, are not exposed to custodial credit risk. At December 31, 2018 and 2017, operating cash of approximately \$18 million for each year was held in short-term investment accounts by the trustee in the Plans' names, and, therefore, were not exposed to custodial credit risk.

Note 2 - Investments (continued) (in thousands)

Foreign Currency Risk

Foreign currency risk is the risk that foreign currencies will decline in value relative to the U.S. dollar and affect the Fund's investments denominated in foreign (non-U.S.) currencies or in securities that trade in, and receive revenues in, or in derivatives that provide exposure to, foreign (non-U.S.) currencies. Currency risk is present in underlying portfolios that invest in foreign stocks and/or bonds. The currency markets have historically been good diversifiers in a total portfolio context; therefore, the Plan has numerous managers that invest globally. In general, currency exposure is viewed as a benefit for its diversification reasons and not as an inherent risk within the portfolio. The Plans' policy is to use forward contracts which may be utilized by investment managers in order to hedge currency exposures.

Foreign Currency Holdings - as of December 31, 2018 and 2017 (amounts in U.S. Dollars, in thousands):		
Trade Currency	2018	2017
Euro	\$ 393,710	\$ 414,545
British Pound	164,836	143,485
Japanese Yen	217,728	187,348
Swiss Franc	38,483	37,142
Chinese Yuan	5,837	-
Singapore Dollar	28,615	30,517
Canadian Dollar	17,159	7,485
Brazilian Real	14,373	12,096
South Korean Won	35,089	36,442
Danish Krone	46,525	37,323
Australian Dollar	18,955	6,745
Mexican Peso	4,916	3,646
Indonesian Rupiah	2,700	2,799
New Taiwan Dollar	15,072	17,018
Turkish Lira	2,420	5,211
Hong Kong Dollar	155,457	141,916
South African Rand	2,367	11,586
Swedish Krona	59,690	95,770
Thai Baht	3,130	4,445
Malaysian Ringgit	5,497	9,062
Philippine Peso	1,343	-
Norwegian Krone	10,049	4,823
TOTAL	\$ 1,243,951	\$ 1,209,404

Note 3 - Fair Value Measurements (in thousands)

Certain investments are reported at fair value by the custodian daily, with the exception of the Stable Income Fund, which is valued monthly. Fair value is computed by the Plans' custodian based on quoted market price and information provided by various investment managers. The Stable Income Fund is valued at contract value based upon information provided by the respective insurance companies and investment managers. Contract value represents contributions made to the fund, plus earnings, less participant withdrawals and administrative expenses.

The Plan implemented GASB Statement No. 72 "Fair Value Measurement and Application" ("GASB 72") during 2014. GASB 72 defined fair value hierarchy consisting of three levels as follows:

- Level 1: Valuations based on quoted prices (unadjusted) in an active market that is accessible at the measurement date for identical assets or liabilities. The fair value hierarchy gives the highest priority to Level 1 inputs.
- Level 2: Valuations based on observable inputs other than Level 1 prices such as quoted prices for similar assets or liabilities; quoted prices in inactive markets; or model-derived valuations in which all significant inputs are observable or can be derived principally from or corroborated with observable market data.
- Level 3: Valuations based on unobservable inputs used when little or no market data is available. The fair value hierarchy gives lowest priority to Level 3 inputs.

In determining fair value, the Plan utilizes valuation techniques that maximize the use of observable inputs and minimize the use of unobservable inputs to the extent possible in its assessment of fair value.

Following is a description of the valuation methodologies used for assets measured at fair value. There have been no changes in the methodologies used at December 31, 2018 and 2017.

Mutual Funds

Mutual funds are valued at the daily closing price as reported by the fund. Mutual funds held by the Plan, in the self-directed brokerage, are open-end mutual funds that are registered with the Securities and Exchange Commission. These funds are required to publish their daily Net Asset Value and to transact at that price. The mutual funds held by the Plan are deemed to be actively traded and are included in Level 1 of the fair value hierarchy.

The preceding methods described may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, although the Plan believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

Note 3 - Fair Value Measurements (continued) (in thousands)

The Plans' investments in the self-directed brokerage options are all Level 1 investments. The Plans' investments measured at net asset value can be redeemed daily. Additionally, there were no unfunded commitments and redemption notice period for investments measured at net asset value. The following table sets forth by level, within the fair value hierarchy, the Plans' assets at fair value and valuation method measure at Net Asset Value (NAV) per share as of December 31, 2018 and 2017:

457 Plan	2018	2017
Investments by fair value level :		
Self-directed brokerage option:		
Mutual funds/ETFs	\$ 28,093	\$ 29,900
Total mutual funds/ETFs	28,093	29,900
Investments measured at the net asset value		
Core funds:		
Stable Income Fund (1)	4,863,238	4,695,121
Bond Index Fund ¹ (2)	691,691	651,852
Equity Index Fund (3)	5,365,076	5,736,390
Globally Socially Responsible Index Fund (4)	331,073	361,793
Mid-Cap Equity Index Fund (5)	891,813	1,008,628
International Equity Fund (6)	1,263,326	1,436,493
Small-Cap Equity Fund (7)	2,442,513	2,619,053
Treasury Inflation Protected Securities (8)	292,654	265,894
Total Investments measured at the NAV	16,141,384	16,775,224
Total Investments measured at the fair value	\$ 16,169,477	\$ 16,805,124
401(k) Plan		
Investments by fair value level :		
Self-directed brokerage option:		
Mutual funds/ETFs	\$ 4,592	\$ 4,746
Total mutual funds/ETFs	4,592	4,746
Investments measured at the net asset value		
Core funds:		
Stable Income Fund (1)	1,032,085	936,629
Bond Index Fund ¹ (2)	199,505	179,561
Equity Index Fund (3)	778,111	785,093
Globally Socially Responsible Index Fund (4)	42,207	43,835
Mid-Cap Equity Index Fund (5)	224,869	249,183
International Equity Fund (6)	310,173	335,608
Small-Cap Equity Fund (7)	301,375	303,696
Treasury Inflation Protected Securities (8)	86,594	75,915
Total Investments measured at the NAV	2,974,919	2,909,520
Total Investments measured at the fair value	\$ 2,979,511	\$ 2,914,266

¹The Bond Fund was transitioned to the Bond Index Fund during the first quarter of 2018.

Note 3 - Fair Value Measurements (continued) (in thousands)

NYCE IRA	2018	2017
Investments measured at the net asset value		
Stable Income Fund (1)	\$ 166,302	\$ 151,790
Bond Index Fund ¹ (2)	15,853	14,393
Equity Index Fund (3)	77,241	79,584
Globally Socially Responsible Index Fund (4)	3,003	3,058
Mid-Cap Equity Index Fund (5)	16,526	18,598
International Equity Fund (6)	23,735	27,939
Small-Cap Equity Fund (7)	27,694	24,811
Treasury Inflation Protected Securities (8)	8,923	7,709
Total Investments measured at the NAV	\$ 339,277	\$ 327,882
401(a) Plan		
Investments measured at the net asset value		
Stable Income Fund (1)	\$ 2,929	\$ 2,828
Bond Index Fund ¹ (2)	659	635
Equity Index Fund (3)	9,624	10,389
Globally Socially Responsible Index Fund (4)	442	501
Mid-Cap Equity Index Fund (5)	1,306	1,513
International Equity Fund (6)	1,799	2,133
Small-Cap Equity Fund (7)	5,533	5,918
Treasury Inflation Protected Securities (8)	320	296
Total Investments measured at the NAV	\$ 22,612	\$ 24,213

¹The Bond Fund was transitioned to the Bond Index Fund during the first quarter of 2018.

Note 3 - Fair Value Measurements (continued)

1. The Stable Income Fund maintains an allocation to liquid bond investments, guaranteed investment contracts, other investment grade fixed income portfolios and wrap contracts issued by banks and insurance companies. Guaranteed investment contracts held within the fund are measured at their contract value. The fund is calculated at Net Asset Value (NAV). The NAV accrues interest based on the Stable Income Fund crediting rate. The Plans' wrap administrator, NISA Investment Advisors, calculates the crediting rate based on the component investments of the Stable Income Fund.
2. The Bond Index Fund portfolio is designed to be a well-diversified portfolio of government, agency, corporate, and mortgage backed securities that replicates the composition and characteristics of the Bloomberg Barclays U.S. Aggregate Index. The fair value of the Bond Index Fund is calculated at Net Asset Value (NAV). The Plans' Custodian, Bank of New York Mellon, calculates the NAV based on the market value of the underlying securities of the Bond Index Fund.
3. The Equity Index Fund invests in a portfolio of equity securities of companies listed on U. S. securities exchanges that replicates the composition and characteristics of the S&P 500 Index. The fair value of the Equity Index Fund is calculated at Net Asset Value (NAV). The Plans' Custodian, Bank of New York Mellon, calculates the NAV based on the market value of the underlying securities of the Equity Index Fund.
4. The Global Socially Responsible Index Fund invests in companies worldwide that meet specific financial, social and environmental requirements. The fair value of the Global Socially Responsible Index Fund is calculated at Net Asset Value (NAV). The Plans' Custodian, Bank of New York Mellon, calculates the NAV based on the market value of the underlying securities of the Global Socially Responsible Index Fund.
5. The Mid-Cap Equity Index Fund invests primarily in medium-sized domestic companies listed on U.S. stock exchanges that replicates the composition and characteristics of the S&P 400 Index. The fair value of the Mid-Cap Equity Index Fund is calculated at Net Asset Value (NAV). The Plans' Custodian, Bank of New York Mellon, calculates the NAV based on the market value of the underlying securities of the Mid-Cap Equity Index Fund.
6. The International Equity Fund invests in companies located outside the U.S. The primary emphasis of the portfolio will be on relatively large to mid-capitalization stocks in developed countries (countries included in the MSCI All Country World ex-US Index) and investment of a moderate portion of the portfolio's assets will be in international small capitalization stocks. The fair value of the International Equity Fund is calculated at Net Asset Value (NAV). The Plans' Custodian, Bank of New York Mellon, calculates the NAV based on the market value of the underlying securities of the International Equity Fund.
7. The Small-Cap Equity Fund invests primarily in small and medium capitalization domestic companies listed on the U.S. exchanges or traded on the NASDAQ or over the counter. The fair value of the Small-Cap Equity Fund is calculated at Net Asset Value (NAV). The Plans' Custodian, Bank of New York Mellon, calculates the NAV based on the market value of the underlying securities of the Small-Cap Equity Index Fund.
8. The Treasury Inflation Protected Securities ("TIPS") portfolio is designed to be a real return portfolio of inflation-linked bonds, with additional exposure to a broad array of public and private asset classes, including but not limited to money market instruments, corporate securities, mortgage backed securities, private placements, etc. The managers are required to maintain a minimum investment in inflation indexed bonds of 80% net assets. The TIPS portfolio invests in individual debt securities that have a quality rating, at minimum, (as designated by a recognized rating service) of "B/B2" or higher. The average quality rating of the portfolio should be, at minimum, "A/A2." Regarding concentration limits, the portfolio may hold up to 20% of its combined assets in foreign issued bonds, 5% in any issue/issuer, 5% below BBB, 10% private placements, and 5% foreign currency exposure. TIPS are included in some of the pre-arranged portfolios, but are not available as a core investment option.

For each of the above mentioned funds, there were no unfunded commitments as of December 31, 2018 and 2017.

Note 4 - Participant Loans Receivable

Participants in active payroll status are eligible to apply for a loan from the pre-tax portion of the 457 and 401(k) Plans. The minimum loan amount is \$2,500. The maximum amount of an approved loan shall not exceed the lesser of: (i) 50% of the participant's 457 or 401(k) Plan account balance; or (ii) \$50,000 less the combined balance of all outstanding loans a participant may have from pension loans, 403(b) and other Deferred Compensation Plan loans. Loans are not permitted from the NYCE IRA and 401(a) Plans. Participant loans receivable, inclusive of interest receivable, at December 31, 2018 and 2017 were \$249,075,000 and \$243,032,000, respectively.

Note 5 - Related Parties (in thousands)

The costs of administering the Plans are paid with the quarterly administrative fee charged to participant accounts, an annualized asset-based fee assessed to the Plans' investment funds, and interest earned on assets held in the Plans' custodial account (which are administered by the Plans' custodian and consists of cash and other rights and properties arising from amounts deferred).

The Office of Labor Relations of The City of New York provides cash receipt and cash disbursement services to the Plans. The Office of Labor Relations also pays costs of certain administrative services including salaries, and overhead expenses. These expenses are reimbursed to the Office of Labor Relations by the Plans. Total amount reimbursed by the Plans to the Office of Labor Relations amounted to \$1,614 and \$1,570 as of December 31, 2018 and 2017, respectively.

The Office of Labor Relations is also responsible for a portion of the expenses for office space leased by FASCore, LLC which is utilized by the Plan to provide administrative services. Such expense totaled \$279 and \$258 in 2018 and 2017, respectively.

The Plans also reimbursed FASCore, LLC, the third party administrator for recordkeeping services and for the office space leased in New York City on a monthly basis. Such expense totaled \$794 and \$739 annually for 2018 and 2017, respectively.

Pursuant to the New York City Deferred Compensation Board Resolution, dated March 7, 2012, the Board approved the use of a consultant-driven search process for the selection of investment managers. The consultant-driven search process is conducted in accordance with the New York State Regulations. The investment management fees were \$34,186 and \$33,745 as of December 31, 2018 and 2017, respectively.

~ End ~

*Combining Schedules of Plan Fiduciary Net Position
December 2018 (with computed totals for December 31, 2017) (in thousands)*

457 Plan	Program Fund ¹	Administrative Fund ²	Total 2018	Total 2017
Assets:				
Investments	\$ 16,169,477	\$ -	\$ 16,169,477	\$ 16,805,124
Participant loans receivable	218,126	-	218,126	215,045
Other assets	-	2,152	2,152	1,699
Cash and cash equivalents	-	16,203	16,203	16,796
Total Assets	\$ 16,387,603	\$ 18,355	\$ 16,405,958	\$ 17,038,664
Liabilities:				
Accounts payable and accrued expenses	-	4,614	4,614	6,217
Total Liabilities	\$ -	\$ 4,614	\$ 4,614	\$ 6,217
Plan Fiduciary Net Position Restricted for Plan Benefits:				
Plan Net Position for program benefits	\$ 16,387,603	\$ -	\$ 16,387,603	\$ 17,020,169
Designated for administration	-	13,741	13,741	12,278
Total Plan Fiduciary Net Position	\$ 16,387,603	\$ 13,741	\$ 16,401,344	\$ 17,032,447

401 (k)	Program Fund ¹	Administrative Fund ²	Total 2018	Total 2017
Assets:				
Investments	\$ 2,979,511	\$ -	\$ 2,979,511	\$ 2,914,266
Participant loans receivable	30,949	-	30,949	27,987
Other assets	-	1,893	1,893	1,149
Cash and cash equivalents	-	1,905	1,905	884
Total Assets	\$ 3,010,460	\$ 3,798	\$ 3,014,258	\$ 2,944,286
Liabilities:				
Accounts payable and accrued expenses	-	1,642	1,642	-
Total Liabilities	\$ -	\$ 1,642	\$ 1,642	\$ -
Plan Fiduciary Net Position Restricted for Plan Benefits:				
Plan Net Position for program benefits	\$ 3,010,460	\$ -	\$ 3,010,460	\$ 2,942,253
Designated for administration	-	2,156	2,156	2,033
Total Plan Fiduciary Net Position	\$ 3,010,460	\$ 2,156	\$ 3,012,616	\$ 2,944,286

¹ Program Fund represents all participant assets currently invested in the Plan, as well as any outstanding loan balances.

² Administrative Fund is the amount available for recordkeeping, communications and administrative expenses.

Combining Schedules of Plan Fiduciary Net Position
December 2018 (with computed totals for December 31, 2017) (in thousands)

NYCE IRA	Program Fund ¹	Administrative Fund ²	Total 2018	Total 2017
Assets:				
Investments	\$ 339,277	\$ -	\$ 339,277	\$ 327,882
Cash and cash equivalents	-	123	123	65
Total Assets	\$ 339,277	\$ 123	\$ 339,400	\$ 327,947
Liabilities:				
Accounts payable and accrued expenses	-	354	354	274
Total Liabilities	\$ -	\$ 354	\$ 354	\$ 274
Plan Fiduciary Net Position Restricted for Plan Benefits:				
Plan Net Position for program benefits	\$ 339,277	\$ -	\$ 339,277	\$ 327,882
Designated for administration	-	(231)	(231)	(209)
Total Plan Fiduciary Net Position	\$ 339,277	\$ (231)	\$ 339,046	\$ 327,673

401(a) Plan	Program Fund ¹	Administrative Fund ²	Total 2018	Total 2017
Assets:				
Investments	\$ 22,612	\$ -	\$ 22,612	\$ 24,213
Other assets	-	6	6	3
Total Assets	\$ 22,612	\$ 6	\$ 22,618	\$ 24,216
Liabilities:				
Accounts payable and accrued expenses	-	1	1	-
Total Liabilities	\$ -	\$ 1	\$ 1	\$ -
Plan Fiduciary Net Position Restricted for Plan Benefits:				
Plan Net Position for program benefits	\$ 22,612	\$ -	\$ 22,612	\$ 24,213
Designated for administration	-	5	5	3
Total Plan Fiduciary Net Position	\$ 22,612	\$ 5	\$ 22,617	\$ 24,216

¹ Program Fund represents all participant assets currently invested in the Plan, as well as any outstanding loan balances.

² Administrative Fund is the amount available for recordkeeping, communications and administrative expenses.

Schedules of Cash Receipts and Disbursements for the Years Ended December 2018 and 2017 (in thousands)

	457 Plan		401(k) Plan		NYCE IRA		401(a) Plan	
	2018	2017	2018	2017	2018	2017	2018	2017
Cash and cash equivalents - beginning	\$ 16,796	\$ 14,246	\$ 884	\$ 637	\$ 65	\$ 15	\$ -	\$ -
Receipts:								
Employee contributions	710,703	697,028	302,721	283,719	36,721	39,883	23	23
Investment withdrawals for distribution	625,702	573,108	104,001	89,181	15,741	16,483	296	331
Miscellaneous income	9,434	8,145	128	97	2	1	-	-
Total receipts	\$ 1,345,839	\$ 1,278,281	\$ 406,850	\$ 372,997	\$ 52,464	\$ 56,367	\$ 319	\$ 354
Disbursements:								
Distributions to participants	625,702	573,108	104,001	89,181	15,741	16,483	296	331
Investment purchases	702,787	689,460	301,825	282,897	36,665	39,833	23	23
Administrative expenditures	17,943	13,163	3	672	-	1	-	-
Total disbursements	1,346,432	1,275,731	405,829	372,750	52,406	56,317	319	354
Cash and cash equivalents - ending	\$ 16,203	\$ 16,796	\$ 1,905	\$ 884	\$ 123	\$ 65	\$ -	\$ -

Schedules of Administrative Expenses and Recordkeeping/Loan Fees for the Years Ended December 2018 and 2017 (in thousands)

	457 Plan		401(k) Plan		NYCE IRA		401(a) Plan	
	2018	2017	2018	2017	2018	2017	2018	2017
Salaries	\$ 990	\$ 970	\$ 178	\$ 156	\$ 20	\$ 18	\$ -	\$ -
Communications expenses	2,263	1,874	428	319	48	36	-	-
Advisory and Auditing Fees	675	406	119	64	13	6	-	-
Rent & Reimbursement to The City	595	586	99	87	12	12	-	-
Administrative support	3,240	2,769	562	395	55	38	-	-
Recordkeeping/Loan fees	6,473	6,104	849	752	61	53	4	7
Total	\$ 14,236	\$ 12,709	\$ 2,235	\$ 1,773	\$ 209	\$ 163	\$ 4	\$ 7

Schedules of Investment Management Fees for the Years Ended December 2018 and 2017 (in thousands)

	457 Plan		401(k) Plan		NYCE IRA		401(a) Plan	
	2018	2017	2018	2017	2018	2017	2018	2017
Stable Income Fund	\$ 12,574	\$ 13,100	\$ 2,669	\$ 2,613	\$ 430	\$ 423	\$ 8	\$ 8
Bond Index Fund ¹	235	476	68	131	5	12	-	-
Equity Index Fund	265	300	38	41	4	4	-	1
Global Socially Responsible Index Fund	292	256	37	31	3	2	-	-
Mid-Cap Equity Index Fund	191	184	48	46	4	3	-	-
International Equity Fund	4,002	4,177	982	976	75	81	6	7
Small-Cap Equity Fund	10,532	9,432	1,300	1,094	119	90	25	21
TIPS	207	180	61	51	6	5	-	-
Total	\$ 28,298	\$ 28,105	\$ 5,203	\$ 4,983	\$ 646	\$ 620	\$ 39	\$ 37

¹The Bond Fund was transitioned to the Bond Index Fund during the first quarter of 2018.

The majority of the investment options for The City of New York Deferred Compensation Plans experienced negative returns for the calendar year ending December 31, 2018. The domestic equity options generated negative returns over the year but matched or outperformed their respective benchmarks. The International Equity fund also generated negative returns and modestly underperformed its benchmark for the year. The Global Socially Responsible Index Fund was negative for the year but ranked well versus global equity managers. The Core Bond Index Fund was flat for the year and ranked above the median core fixed income manager. The Stable Income Fund generated positive results for the year. The Stable Income Fund results exceeded one of its three benchmarks but slightly lagged behind the other benchmarks.

Equity Index Fund Performance

The Equity Index Fund returned (4.4)% in 2018, matching the return of the S&P 500 Index, as expected. This performance ranked in the 39th percentile in the universe of large cap domestic equity managers. Results for the trailing three through ten-year time periods have been exceptionally strong for the Equity Index Fund and are matching the S&P 500 Index over all time periods after fees. The Fund option has consistently ranked near the top quartile against large cap equity peers.

Mid-Cap Equity Index Fund Performance

The Mid-Cap Equity Index Fund returned (11.1)% in 2018, matching the return of the S&P400 Mid Cap Index, as expected. This performance ranked in the 57th percentile in the universe of mid cap domestic equity managers. The passive Fund option is matching the return of the benchmark through the trailing three-year period.

Small-Cap Equity Fund Performance

The Small Cap Equity Fund returned (7.1)% in 2018, significantly better than the (11.0)% return of the small cap Russell 2000 Index. This performance ranked in the 31st percentile in the universe of small cap domestic equity managers. The Small-Cap Fund has outperformed the benchmark over every time period, extending out to the past ten years and consistently ranks in or near the top quartile of small cap funds.

International Equity Fund Performance

For the calendar year, the International Equity Fund returned (15.5)%, which was below the (14.2)% return for the MSCI ACWI ex-USA Index. The International Equity Fund ranked in the 53rd percentile of the universe of international equity portfolios. The International Equity Fund has exceeded the benchmark over the trailing three through ten-year time periods.

Global Socially Responsible Index Fund Performance

For the calendar year, the Global Socially Responsible Index Fund returned (6.7)%. This performance modestly trailed the return of (6.5)% for the MSCI ACWI SRI Index. The Global Socially Responsible Index Fund ranked in the 24th percentile of the universe of global equity portfolios.

Domestic Core Bond Index Fund Performance

The Domestic Core Bond Index Fund returned 0.0% for the one-year period ending December 31, 2018, matching the return of the Bloomberg Barclays US Aggregate Index. The fund completed its transition to a passively managed Bond Index Fund option in January of 2018. For 2018, the Domestic Core Bond Index Fund performance ranked in the 42nd percentile in the universe of core fixed income managers.

Stable Income Fund Performance

For the calendar year, the Stable Income Fund returned 2.1%, which exceeded the Bloomberg Barclays 1-3 Year Government benchmark return of 1.6%. The Stable Income Fund performance lagged the 3.5% return of the T-Bills+1.5% benchmark and the 3.0% return of the Lipper Institutional Money Market Fund +1.5% benchmark. The Stable Income Fund has generated competitive returns versus money-market alternatives over all trailing time periods. Over the past ten-year period the Stable Income Fund returned 2.7% and exceeds all three benchmarks by approximately 1%.

All return figures mentioned in this review are presented net of fees, are time-weighted, and are calculated by Milliman.

Asset Allocation

As of December 31, 2018, Plan investments were \$19.5 billion, which represents a decrease of \$.6 billion from the December 31, 2017 market value of \$20.1 billion. Plan investments, as of December 31, 2018, were allocated as following: 25.1% in the Equity Index Fund, 1.9% in the Global Socially Responsible Index Fund, 4.7% in the Mid-Cap Equity Index Fund, 13.1% in the Small-Cap Equity Fund, 3.7% in the International Equity Fund, 2.0% in the Bond Index Fund, 27.5% in the Stable Income Fund, and 21.7% in target date funds (the largest target date funds were the 2025 Fund with 4.6% of Plan investments, and the 2015 Fund, with 3.5% of Plan investments). Additionally, there were 0.2% of Plan investments in the brokerage window.

Percent of Fair Value	457 Plan	401(k) Plan	NYCE IRA	401(a) Plan
Pre-Arranged Portfolios				
Static Allocation Fund	0.6%	1.0%	3.0%	0.4%
2005 Fund	0.5%	1.1%	1.2%	0.2%
2010 Fund	0.9%	1.8%	1.5%	0.5%
2015 Fund	3.4%	4.3%	2.9%	2.9%
2020 Fund	2.0%	3.6%	4.0%	1.6%
2025 Fund	4.2%	6.5%	3.8%	3.7%
2030 Fund	2.0%	3.8%	2.9%	1.4%
2035 Fund	1.6%	3.2%	2.1%	1.2%
2040 Fund	1.1%	2.2%	1.3%	0.6%
2045 Fund	1.5%	2.8%	1.3%	1.1%
2050 Fund	1.0%	1.6%	0.8%	0.8%
2055 Fund	0.7%	1.1%	0.6%	-
Core Options				
Stable Income Fund	26.8%	29.4%	43.3%	10.6%
Bond Index Fund	2.0%	2.7%	1.7%	1.1%
Equity Index Fund	27.1%	15.6%	15.6%	38.1%
Global Socially Responsible Index Fund	2.0%	1.4%	0.9%	2.0%
Mid-Cap Equity Index Fund	4.5%	5.8%	3.7%	5.0%
International Equity Fund	3.8%	3.5%	2.4%	5.1%
Small-Cap Equity Fund	14.1%	8.4%	7.0%	23.7%
Self-Directed Brokerage Option				
	0.2%	0.2%	-	-

Pre-Arranged Portfolios

The Pre-Arranged Portfolios are made up of varying percentages of the following core investment options: Stable Income Fund, Bond Fund, Equity Index Fund, Mid-Cap Equity Index Fund, International Equity Fund, and Small-Cap Equity Fund. They are designated by payout years. The portfolios are designed to meet certain expected rate of return requirements over time horizons, and balance the rate of return needs with the appropriate amount of risk. Each portfolio is rebalanced periodically to lower its equity exposure over time.

U.S. Treasury Inflation Protected Securities (“TIPS”) are a component of some of the portfolios as noted below. The goal of TIPS is to preserve and enhance purchasing power for individuals planning for retirement. TIPS represent a distinct asset class in which both principal and interest payments adjust to track changes in the Consumer Price Index or “CPI”. A fixed rate of interest is then paid on this increasing principal amount. The principal grows with inflation and the cash coupon also increases with inflation. In a diversified portfolio, an allocation to TIPS can help protect against inflation and increase the risk-adjusted returns of the portfolio. To pick a portfolio, participants need to use their current age or the number of years until they expect to begin distribution payments as a guide, whichever better suits their personal circumstances.

Fund Name	Composition At December 31, 2018	Annual Return	Custom Benchmark	Portfolio Expense Ratio
Static Allocation Fund	60.0% Stable Income; 15.0% TIPS; 5.0% Bond; 10.0% Equity Index; 3.0% Mid-Cap; 4.0% International; and 3.0% Small-Cap	(0.4)%	0.4%	0.25%
2005 Fund	57.9% Stable Income; 15.0% TIPS; 5.6% Bond; 10.5% Equity Index; 3.2% Mid-Cap; 4.6% International and 3.2% Small-Cap	(0.7)%	0.1%	0.25%
2010 Fund	44.5% Stable Income; 15.0% TIPS; 10.0% Bond; 13.8% Equity Index; 4.1% Mid-Cap; 8.5% International; and 4.1% Small-Cap	(1.8)%	(1.2)%	0.23%
2015 Fund	34.2% Stable Income; 15.0% TIPS; 11.0% Bond; 18.8% Equity Index; 4.6% Mid-Cap; 11.8% International; and 4.6% Small-Cap	(2.8)%	(2.3)%	0.22%
2020 Fund	21.9% Stable Income; 14.6% TIPS; 12.0% Bond; 24.4% Equity Index; 5.1% Mid-Cap; 16.9% International; and 5.1% Small-Cap	(4.2)%	(3.8)%	0.20%
2025 Fund	9.1% Stable Income; 11.3% TIPS; 13.0% Bond; 32.9% Equity Index; 5.6% Mid-Cap; 22.5% International; and 5.6% Small-Cap	(5.7)%	(5.4)%	0.18%
2030 Fund	3.7% Stable Income; 6.3% TIPS; 13.9% Bond; 38.5% Equity Index; 6.1% Mid-Cap; 25.4% International; and 6.1% Small-Cap	(6.6)%	(6.2)%	0.18%
2035 Fund	1.7% Stable Income; 1.7% TIPS; 13.7% Bond; 42.0% Equity Index; 6.6% Mid-Cap; 27.7% International; and 6.6% Small-Cap	(7.2)%	(6.8)%	0.18%
2040 Fund	11.6% Bond; 45.2% Equity Index; 7.0% Mid-Cap; 29.2% International; and 7.0% Small-Cap	(7.7)%	(7.3)%	0.18%
2045 Fund	9.2% Bond; 46.3% Equity Index; 7.1% Mid-Cap; 30.3% International; and 7.1% Small-Cap	(8.0)%	(7.5)%	0.18%
2050 Fund	4.2% Bond; 48.4% Equity Index; 7.6% Mid-Cap; 32.2% International; 7.6% Small-Cap	(8.7)%	(8.0)%	0.18%
2055 Fund	50.5% Equity Index; 8.0% Mid-Cap; 33.5% International; 8.0% Small-Cap	(9.2)%	(8.4)%	0.19%

Returns are presented net of fees and time-weighted and are calculated by the Plan’s investment consultant, Milliman.

Core Investment Options

Stable Income Fund

The investment objective of the Stable Income Fund is to conserve principal and to provide a steady rate of return. The Fund invests in a combination of insurance company general account investment contracts, a “wrapped” portfolio of high quality bonds, and other fixed income investments as well as cash equivalents. A portfolio is “wrapped” when an insurance company or bank issues a form of investment contract (or wrap agreement) providing a guarantee that member withdrawals from the portfolio will not be adjusted for changes in market conditions. A wrap agreement provides price stability by helping to protect the Fund from severe changes in market value and, subject to certain conditions, provides repayment of principal and interest to Plan participants. Fiduciary Capital Management is the manager for the Traditional Guaranteed Investment Contract (“GIC”) portfolio. ICMA-RC manages the liquidity buffer that handles cash flow activity. The actively managed synthetic GIC portfolios and the insurance company separate accounts within the Stable Income Fund are managed by NISA Investment Advisors, Dodge & Cox, BlackRock Financial Management, Prudential, Goldman Sachs Asset Management, Barings, LLC, Longfellow Investment Management, Earnest Partners, LLC, and Pyramis Global Advisors. The actively managed synthetic GIC portfolios and the insurance company separate accounts are wrapped with a book value guarantee provided by Transamerica Premier Life Insurance Company, Metropolitan Life Insurance Company, American General Life, Voya Retirement, Prudential Insurance Company of America and Nationwide Life Insurance Company.

The top ten holdings of the Stable Income Fund are as follows:

#	Asset Long Description	WEIGHT %
1	JP MORGAN GAC 32297 ACCT# 643 0.000% 12/31/2049 DD 09/14/10	10.03%
2	ICMA STABLE RETURN FUND	8.12%
3	GAC 032300 # 778 0.000% 12/31/2049 DD 09/14/10	7.37%
4	UNITED STATES TREASURY	2.08%
5	UNITED STATES TREASURY	1.42%
6	UST 1.500 05/15/20	1.27%
7	FNMA CONV 30 YR SF	1.21%
8	UST 2.000 11/30/21	0.99%
9	UST 1.750 11/30/21	0.93%
10	UST 2.750 11/30/20	0.88%
Total For Top Holdings		34.30%

Stable Income Fund Portfolios

Security Description	Maturity	Crediting	Total Assets (in thousands)
Stable Value Fund			
ICMA-RC	N/A	2.68%	\$595,842
The Bank of New York Mellon	N/A	2.43%	\$22,544
Total Stable Value Fund			\$618,386

Security Description	Credit Rating Moody's/S&P/Fitch	Maturity	Crediting	Total Assets (in thousands)
GICs				
Jackson National	A1/AA/AA	05/31/2019	2.81%	\$ 7,809
Jackson National	A1/AA/AA	09/30/2019	2.31%	8,184
Jackson National	A1/AA/AA	03/31/2020	2.33%	7,733
Jackson National	A1/AA/AA	05/29/2019	2.26%	15,794
Jackson National	A1/AA/AA	09/30/2021	2.80%	26,664
Jackson National	A1/AA/AA	11/30/2021	2.56%	3,954
Jackson National	A1/AA/AA	06/30/2021	2.43%	13,891
Jackson National	A1/AA/AA	12/31/2021	2.42%	10,661
Jackson National	A1/AA/AA	04/29/2022	2.20%	8,371
Jackson National	A1/AA/AA	05/31/2022	2.71%	17,202
Jackson National	A1/AA/AA	08/31/2022	2.88%	14,754
Jackson National	A1/AA/AA	12/30/2022	2.82%	7,440
Jackson National	A1/AA/AA	04/28/2023	2.68%	20,030
Jackson National	A1/AA/AA	06/30/2023	2.67%	9,679
Jackson National	A1/AA/AA	02/28/2023	2.43%	6,390
Jackson National	A1/AA/AA	11/30/2023	3.25%	19,013
Massachusetts Mutual	Aa2/AA+/AA+	07/31/2023	2.46%	17,904
Massachusetts Mutual	Aa2/AA+/AA+	12/29/2023	3.24%	10,272
Massachusetts Mutual	Aa2/AA+/AA+	12/29/2023	3.35%	22,326
Massachusetts Mutual	Aa2/AA+/AA+	03/28/2024	3.44%	19,030
Massachusetts Mutual	Aa2/AA+/AA+	05/31/2024	3.37%	23,107
Massachusetts Mutual	Aa2/AA+/AA+	07/31/2024	3.51%	15,102
Metropolitan Life	Aa3/AA-/AA-	03/29/2019	2.05%	3,554
Metropolitan Life	Aa3/AA-/AA-	04/10/2019	2.45%	11,192
Metropolitan Life	Aa3/AA-/AA-	04/30/2019	2.01%	5,076
Metropolitan Life	Aa3/AA-/AA-	05/31/2019	2.02%	15,969
Metropolitan Life	Aa3/AA-/AA-	08/08/2019	2.35%	14,926
Metropolitan Life	Aa3/AA-/AA-	07/31/2019	2.22%	16,464
Metropolitan Life	Aa3/AA-/AA-	10/10/2019	2.01%	7,067
Metropolitan Life	Aa3/AA-/AA-	12/04/2019	2.33%	19,296
Metropolitan Life	Aa3/AA-/AA-	03/31/2020	2.22%	7,045
Metropolitan Life	Aa3/AA-/AA-	06/02/2020	2.37%	9,228
Metropolitan Life	Aa3/AA-/AA-	06/30/2020	2.34%	3,239
Metropolitan Life	Aa3/AA-/AA-	01/29/2021	2.43%	4,710
Metropolitan Life	Aa3/AA-/AA-	05/03/2021	2.38%	7,758
Metropolitan Life	Aa3/AA-/AA-	06/01/2021	2.45%	12,008
Metropolitan Life	Aa3/AA-/AA-	05/28/2021	2.05%	3,151
Metropolitan Life	Aa3/AA-/AA-	06/30/2021	2.13%	7,366
Metropolitan Life	Aa3/AA-/AA-	07/30/2021	2.19%	4,418
Metropolitan Life	Aa3/AA-/AA-	08/31/2021	2.16%	11,541
Metropolitan Life	Aa3/AA-/AA-	10/29/2021	2.25%	7,333
Metropolitan Life	Aa3/AA-/AA-	11/30/2022	2.81%	20,779
Metropolitan Life	Aa3/AA-/AA-	04/28/2023	3.59%	9,812
Metropolitan Life	Aa3/AA-/AA-	04/28/2023	3.51%	10,207
Minnesota Life	AA/AA-/Aa3	08/30/2024	3.74%	31,734
Minnesota Life	AA/AA-/Aa3	09/30/2024	3.71%	14,614
New York Life	Aaa/AA+/AAA	03/31/2019	2.12%	9,551
New York Life	Aaa/AA+/AAA	06/28/2019	1.97%	18,688
New York Life	Aaa/AA+/AAA	09/30/2019	1.88%	7,130
New York Life	Aaa/AA+/AAA	10/31/2019	1.94%	3,782
New York Life	Aaa/AA+/AAA	12/31/2019	2.03%	8,650
New York Life	Aaa/AA+/AAA	01/31/2020	1.70%	11,728
New York Life	Aaa/AA+/AAA	04/30/2020	1.91%	19,260
New York Life	Aaa/AA+/AAA	05/29/2020	2.05%	3,865
New York Life	Aaa/AA+/AAA	10/30/2020	2.20%	5,667
New York Life	Aaa/AA+/AAA	09/30/2020	2.23%	10,683
New York Life	Aaa/AA+/AAA	11/30/2020	2.26%	6,415
New York Life	Aaa/AA+/AAA	01/29/2021	2.17%	8,501
New York Life	Aaa/AA+/AAA	09/30/2021	1.90%	7,289
New York Life	Aaa/AA+/AAA	02/28/2022	2.48%	9,189
New York Life	Aaa/AA+/AAA	02/28/2023	3.09%	10,240
New York Life	Aaa/AA+/AAA	03/31/2023	3.22%	6,521
New York Life	Aaa/AA+/AAA	11/30/2023	3.38%	14,012
Ohio National	A2/AA-/NR	09/30/2019	2.20%	13,321
Ohio National	A2/AA-/NR	10/31/2019	2.07%	5,398

Security Description	Credit Rating Moody's/S&P/Fitch	Maturity	Crediting	Total Assets (in thousands)
GICs				
Ohio National	A2/AA-/NR	03/31/2021	2.06%	14,532
Ohio National	A2/AA-/NR	11/30/2021	2.48%	2,658
Ohio National	A2/AA-/NR	06/30/2021	2.39%	9,563
Ohio National	A2/AA-/NR	02/26/2021	2.37%	8,464
Ohio National	A2/AA-/NR	04/30/2021	2.42%	10,661
Ohio National	A2/AA-/NR	10/29/2021	2.54%	12,806
Ohio National	A2/AA-/NR	02/28/2022	1.95%	2,829
Ohio National	A2/AA-/NR	02/28/2022	2.09%	12,120
Ohio National	A2/AA-/NR	02/28/2022	2.07%	5,183
Ohio National	A2/AA-/NR	06/30/2023	2.87%	17,125
Ohio National	A2/AA-/NR	05/31/2023	2.91%	24,030
Principal Life	A1/A+/AA-	03/29/2019	2.51%	5,706
Principal Life	A1/A+/AA-	04/28/2020	2.13%	4,574
Principal Life	A1/A+/AA-	08/30/2020	2.04%	3,241
Principal Life	A1/A+/AA-	10/30/2020	2.20%	5,632
Principal Life	A1/A+/AA-	04/30/2020	2.25%	6,499
Principal Life	A1/A+/AA-	03/31/2021	2.47%	17,892
Principal Life	A1/A+/AA-	04/30/2021	2.60%	8,151
Principal Life	A1/A+/AA-	08/31/2020	2.58%	5,431
Principal Life	A1/A+/AA-	12/31/2020	2.51%	22,071
Principal Life	A1/A+/AA-	07/30/2021	2.56%	10,066
Principal Life	A1/A+/AA-	08/31/2021	2.67%	7,794
Principal Life	A1/A+/AA-	12/31/2021	2.49%	9,613
Principal Life	A1/A+/AA-	09/29/2023	3.34%	8,927
Principal Life	A1/A+/AA-	02/28/2024	3.65%	15,107
Protective Life	A2/AA-/A	08/31/2019	2.62%	9,410
Protective Life	A2/AA-/A	03/31/2022	2.10%	11,191
Prudential	A1/AA-/A+	03/31/2020	2.28%	3,301
Prudential	A1/AA-/A+	12/30/2019	2.25%	17,049
Prudential	A1/AA-/A+	06/30/2020	2.16%	11,737
Prudential	A1/AA-/A+	09/30/2020	2.24%	14,668
Prudential	A1/AA-/A+	10/30/2020	2.18%	8,658
Prudential	A1/AA-/A+	11/30/2020	2.13%	12,214
Prudential	A1/AA-/A+	06/30/2021	2.43%	3,790
Prudential	A1/AA-/A+	08/31/2021	2.57%	18,131
Prudential	A1/AA-/A+	12/30/2022	2.70%	10,458
Prudential	A1/AA-/A+	03/31/2023	2.62%	15,874
Prudential	A1/AA-/A+	01/31/2023	2.40%	5,151
Prudential	A1/AA-/A+	01/31/2023	2.51%	10,318
United of Omaha	A1/AA-/NR	07/31/2019	2.60%	11,421
United of Omaha	A1/AA-/NR	02/28/2021	2.54%	21,364
United of Omaha	A1/AA-/NR	07/31/2020	2.42%	10,827
United of Omaha	A1/AA-/NR	01/31/2022	2.30%	17,257
United of Omaha	A1/AA-/NR	03/30/2020	2.00%	4,175
United of Omaha	A1/AA-/NR	07/29/2022	3.00%	15,352
United of Omaha	A1/AA-/NR	06/30/2022	2.70%	5,242
United of Omaha	A1/AA-/NR	02/28/2023	2.57%	13,718
United of Omaha	A1/AA-/NR	02/28/2023	2.72%	11,822
United of Omaha	A1/AA-/NR	01/31/2024	3.40%	18,834
United of Omaha	A1/AA-/NR	03/31/2023	3.41%	10,181
Total GICs				\$1,286,505
Book Value Wrap Providers for Actively Managed and Buy & Hold Portfolios				
Transamerica Life	A1/AA-/AA	N/A	2.82%	407,242
Metropolitan Life	Aa3/AA-/AA	N/A	3.09%	601,428
Metropolitan Life	Aa3/AA-/AA	N/A	2.47%	444,002
American General Life	A2/A+/A+	N/A	2.07%	634,139
Voya Retirement	A2/A/A	N/A	2.07%	835,951
Prudential	A2/AA-/A+	N/A	2.60%	652,465
Nationwide Life	A1/A+/NR	N/A	2.40%	584,436
Sub-Total				\$4,159,663
Total 457, 401(k), NYCE IRA, and 401(a) Balance				\$6,064,554

Bond Index Fund

The investment objective of the Bond Fund is to replicate the total return of the broad fixed income market while providing capital preservation and income. An allocation to

this passively managed fund may be beneficial as a part of a balanced portfolio to hedge against the significantly higher risk (as measured by standard deviation) of equities. In 2017, the Fund began transitioning to a passively managed investment option, seeking to replicate the performance of the Bloomberg Barclays US Aggregate Index. The transition to a 100% passively managed fund, managed by BlackRock was completed in January 2018. The Bond Fund provides a diversified portfolio of bonds from the government, government agency, corporate, and mortgage related sectors. While the Fund seeks to provide capital preservation and income, there may be periods of time when the return on the Bond Fund is negative.

The top ten holdings of the Bond Index Fund are as follows:

#	Asset Long Description	WEIGHT %
1	United States Treasury	37.5%
2	Federal National Mortgage Association	13.2%
3	Government National Mortgage Association II	7.7%
4	Federal Home Loan Mortgage Corp. - Gold	5.8%
5	Federal Home mortgage corp	2.2%
6	JPMorgan Chase & Co.	0.6%
7	Bank of America Corp.	0.5%
8	kfw	0.5%
9	european investment bank	0.5%
10	goldman sachs	0.05%
Total For Top Holdings		69.0%

Equity Index Fund

The Equity Index Fund is managed by BNY Mellon. It seeks to replicate the performance of the Standard & Poor's 500 Composite Stock Index ("S&P 500 Index") by investing in all 500 stocks listed in the S&P 500 Index in approximately the same proportions as they are represented in the S&P 500 Index. The Equity Index Fund offers participants exposure to the stocks of large- and mid-sized corporations through a passive investment vehicle. Over time, the S&P 500 Index is expected to provide total returns in excess of both inflation and fixed income funds. As with any investment in equities, substantial volatility (risk as measured by standard deviation) is expected.

The top ten holdings of the Equity Index Fund are as follows:

#	Asset Long Description	WEIGHT %
1	MICROSOFT	3.69%
2	APPLE	3.35%
3	AMAZON.COM	2.90%
4	BERKSHIRE HATHAWAY 'B'	1.87%
5	JOHNSON & JOHNSON	1.63%
6	JP MORGAN CHASE & CO.	1.53%
7	ALPHABET 'C'	1.50%
8	FACEBOOK CLASS A	1.48%
9	ALPHABET 'a'	1.47%
10	EXXON MOBIL	1.36%
Total For Top Holdings		20.76%

Global Socially Responsible Index Fund

The Global Socially Responsible Index Fund invests 100% of assets in the stocks of companies which display good corporate citizenship, while excluding companies that do not pass social and environmental screens. As with any investment in global stock markets, substantial volatility (risk as measured by standard deviation) in the unit value of this option will occur. The Global Socially Responsible Index Fund option is expected to generate total returns at a rate in excess of inflation over the long term. The Global Socially Responsible is managed by BlackRock.

The top ten holdings of the Global Socially Responsible Index Fund are as follows:

#	Asset Long Description	WEIGHT %
1	MICROSOFT	7.13%
2	PROCTOR & GAMBLE	2.21%
3	INTEL	2.09%
4	TAIWAN SEMICON.MNFG	1.75%
5	ROCHE HOLDING	1.67%
6	WALT DISNEY	1.58%
7	PEPSICO	1.53%
8	MCDONALDS	1.33%
9	TOTAL	1.26%
10	AMGEN	1.22%
Total For Top Holdings		21.78%

Mid-Cap Equity Index Fund

The Mid-Cap Equity Index Fund invests in the stock of medium-sized companies. It seeks to replicate the performance of the Standard & Poor's 400. State Street Global Advisors managed this index fund for the first three quarters of 2018. Rhumblin assumed management of this fund during the fourth quarter of 2018. Over longer time periods, mid-cap equity funds are expected to provide substantial total returns above inflation, with substantial volatility (risk as measured by standard deviation).

The top ten holdings of the Mid-Cap Equity Index Fund are as follows:

#	ASSET LONG DESCRIPTION	WEIGHT %
1	TELEFLEX	0.80%
2	ATMOS	0.73%
3	DOMINO'S PIZZA	0.70%
4	IDEX	0.65%
5	UGI	0.63%
6	ALLEGHANY	0.62%
7	STERIS	0.61%
8	PTC	0.60%
9	REINSURANCE GROUP OF AM.	0.60%
10	ZEBRA TECHNOLOGIES 'A'	0.58%
TOTAL FOR TOP HOLDINGS		6.53%

International Equity Fund

The International Equity Fund invests in companies that are not domiciled in the United States. The Fund seeks to provide long-term growth of capital, with investments primarily made in middle- to large-capitalization stocks in developed and emerging countries. Due to a relatively low correlation between the foreign and domestic equity markets, the International Equity Fund can provide good diversification when combined with US equity funds. However, the Fund is subject to major volatility or risk (higher standard deviation) as this fund is invested across the developed and emerging world and each market has its own currency changes and stock market movements. The Fund managers include: Mondrian Investment Partners (Value), Baillie Gifford (Growth), Copper-Rock (Small Cap), and BNY Mellon (Index).

The top ten holdings of the International Equity Fund are as follows:

#	Asset Long Description	Weight %
1	BK OF NY MELLONB DL NON-SL ALL CT	11.34%
2	TENCENT HOLDINGS	2.92%
3	ALIBABA GROUP HLDG.SPN.ADR 1:1	2.62%
4	ASML HOLDING	1.90%
5	FERRARI (MIL)	1.87%
6	AIA GROUP	1.83%
7	BAIDU 'A' ADR 10:1	1.65%
8	KERING	1.58%
9	PING AN INSURANCE (GROUP) OF CHINA 'H'	1.44%
10	INDITEX	1.38%
Total For Top Holdings		28.54%

Small-Cap Equity Fund

The Small-Cap Equity Fund seeks long-term growth of capital by investing primarily in the common stocks of small companies which are believed to have good prospects for capital appreciation. The fund's management concentrates on companies that may offer accelerated earnings growth because of new management, new products, or structural changes in the economy. Small-cap stocks offer the opportunity for greater long-term capital appreciation. In the short-term, however, these stocks may display substantial volatility (risk as measured by standard deviation). The Small-Cap Equity Fund is comprised of the following managers: Dimensional Fund Advisors (Value), T. Rowe Price Associates, Inc. (Growth), Wellington Management Company, LLP (Core), and Rhumblin (Index).

The top ten holdings of the Small-Cap Equity Fund are as follows:

#	Asset Long Description	WEIGHT %
1	VAIL RESORTS	0.73%
2	BURLINGTON STORES	0.61%
3	BRIGHT HORIZONS FAMILY SOLUTIONS	0.61%
4	TABLEAU SOFTWARE CL.A	0.54%
5	MOLINA HEALTHCARE	0.52%
6	CASH - USD	0.50%
7	TRANSUNION	0.49%
8	GARTNER 'A'	0.48%
9	WASTE CONNECTIONS (NYS)	0.47%
10	BLACK KNIGHT	0.47%
	Total For Top Holdings	5.42%

Complete holdings information for each fund manager is available to participants upon request.

Self-Directed Brokerage Option

The Self-Directed Brokerage (SDB) option allows participants with account balances of at least \$5,000 to invest in mutual funds, including no-load/no-transaction fee funds, which are outside of the Deferred Compensation Plan's investment fund line-up. As of 2017, 457 Plan and 401(k) participants can also invest in Exchange Traded Funds (ETFs) The SDB is for knowledgeable investors who acknowledge and understand the risks associated with many of the investments contained in the SDB option. The SDB is available through TD Ameritrade.

Investment Summary Fair Value (in thousands)

Type of Investment	Date	457 Plan	401(k) Plan	NYCE IRA	401(a) Plan
Stable Income Fund	12/31/18	\$ 4,340,953	\$ 877,092	\$ 147,097	\$ 2,393
Bond Index Fund	12/31/18	305,723	78,925	5,758	243
Equity Index Fund	12/31/18	4,375,877	464,517	53,227	8,636
Global Socially Responsible Index Fund	12/31/18	331,073	42,207	3,003	442
Mid-Cap Equity Index Fund	12/31/18	727,451	173,228	12,388	1,141
International Equity Fund	12/31/18	612,663	103,982	8,131	1,146
Small-Cap Equity Fund	12/31/18	2,281,341	250,736	23,635	5,371
Static Allocation Fund	12/31/18	100,802	30,891	10,269	80
2005 Fund	12/31/18	88,096	31,189	3,989	46
2010 Fund	12/31/18	140,628	52,167	4,973	117
2015 Fund	12/31/18	545,444	128,691	9,793	649
2020 Fund	12/31/18	314,296	108,478	13,681	364
2025 Fund	12/31/18	685,652	192,784	13,080	832
2030 Fund	12/31/18	330,165	114,234	9,838	323
2035 Fund	12/31/18	259,228	96,038	6,976	274
2040 Fund	12/31/18	185,831	66,671	4,244	137
2045 Fund	12/31/18	244,590	81,810	4,546	242
2050 Fund	12/31/18	158,068	48,029	2,571	176
2055 Fund	12/31/18	113,503	33,250	2,078	-
Self-Directed Brokerage Option	12/31/18	28,093	4,592	-	-
		\$ 16,169,477	\$ 2,979,511	\$ 339,277	\$ 22,612

**Investment Management Fees and Administrative Fees (0.04%)
for the 457, 401(k), 401(a) Plans, and NYCE IRA for 2018 (in thousands)**

	Total Assets	Investment Management Fees	Administrative Fees (0.04%)	2018 Expense Ratio	Total Investment Management and Administrative Fees
Stable Income Fund	\$ 6,064,554	\$ 15,681	\$ 2,356	0.32%	\$ 18,037
Bond Index Fund	907,708	308	384	0.10%	692
Equity Index Fund	6,230,052	307	2,727	0.05%	3,034
Global Socially Responsible Index Fund	376,725	332	167	0.11%	499
Mid-Cap Equity Index Fund	1,134,514	243	520	0.06%	763
International Equity Fund	1,599,033	5,065	737	0.36%	5,802
Small-Cap Equity Fund	2,777,115	11,976	1,261	0.44%	13,237
TIPS	388,491	274	152	0.11%	426
Total	\$ 19,478,192	\$ 34,186	\$ 8,304		\$ 42,490

**Performance Summary for One-, Three-, and Five- Year Periods
Ended December 31, 2018**

Core Fund Name Market Benchmark	Annualized Returns (Net of Fees)		
	1 YR	3 YR	5 YR
Stable Income Fund T-Bills Plus 1.5% Barclays 1-3 Year Govt. Lipper Inst. MM+1.5%	2.1% 3.5% 1.6% 3.0%	2.0% 2.6% 1.0% 2.2%	2.0% 2.2% 0.8% 1.9%
Bond Index Fund ¹ Custom Benchmark (The Custom Benchmark is the Barclays U.S Aggregate since the 4th quarter of 2006. It was comprised of 80% BC Aggregate, 10% ML High Yield Index and 10% SB non-US Gov't Bond Index – Hedged for all prior periods.)	0.0% 0.0%	2.0% 2.1%	2.3% 2.5%
Equity Index Fund S&P 500 Index	(4.4)% (4.4)%	9.2% 9.3%	8.5% 8.5%
Global Socially Responsible Index Fund ² MSCI ACWI SRI (The Global Socially Responsible Index Fund benchmark from 4/2007 to 1/2016 was the MSCI World.)	(6.7)% (6.5)%	8.0% 8.5%	2.2% 5.4%
Mid-Cap Equity Index Fund S&P 400 MidCap	(11.1)% (11.1)%	7.7% 7.7%	6.0% 6.0%
International Equity Fund Custom Benchmark (The Custom Benchmark is 100% MSCI ACWI ex-US since the 4th quarter of 2011. It was 100% MSCI EAFE in all prior quarters.)	(15.5)% (14.2)%	5.3% 4.5%	1.7% 0.7%
Small-Cap Equity Fund Russell 2000	(7.1)% (11.0)%	9.0% 7.4%	6.0% 4.4%

Returns are presented net of fees and time-weighted and are calculated by the Plan's investment consultant, Milliman.

Note: Past investment returns are no guarantee of future returns and should not be relied upon as a sole source for investment decision-making.

¹The Bond Fund was transitioned to the Bond Index Fund during the first quarter of 2018.

²The Global Socially Responsible Fund was transitioned to the Global Socially Responsible Index Fund as of the first quarter of 2016.

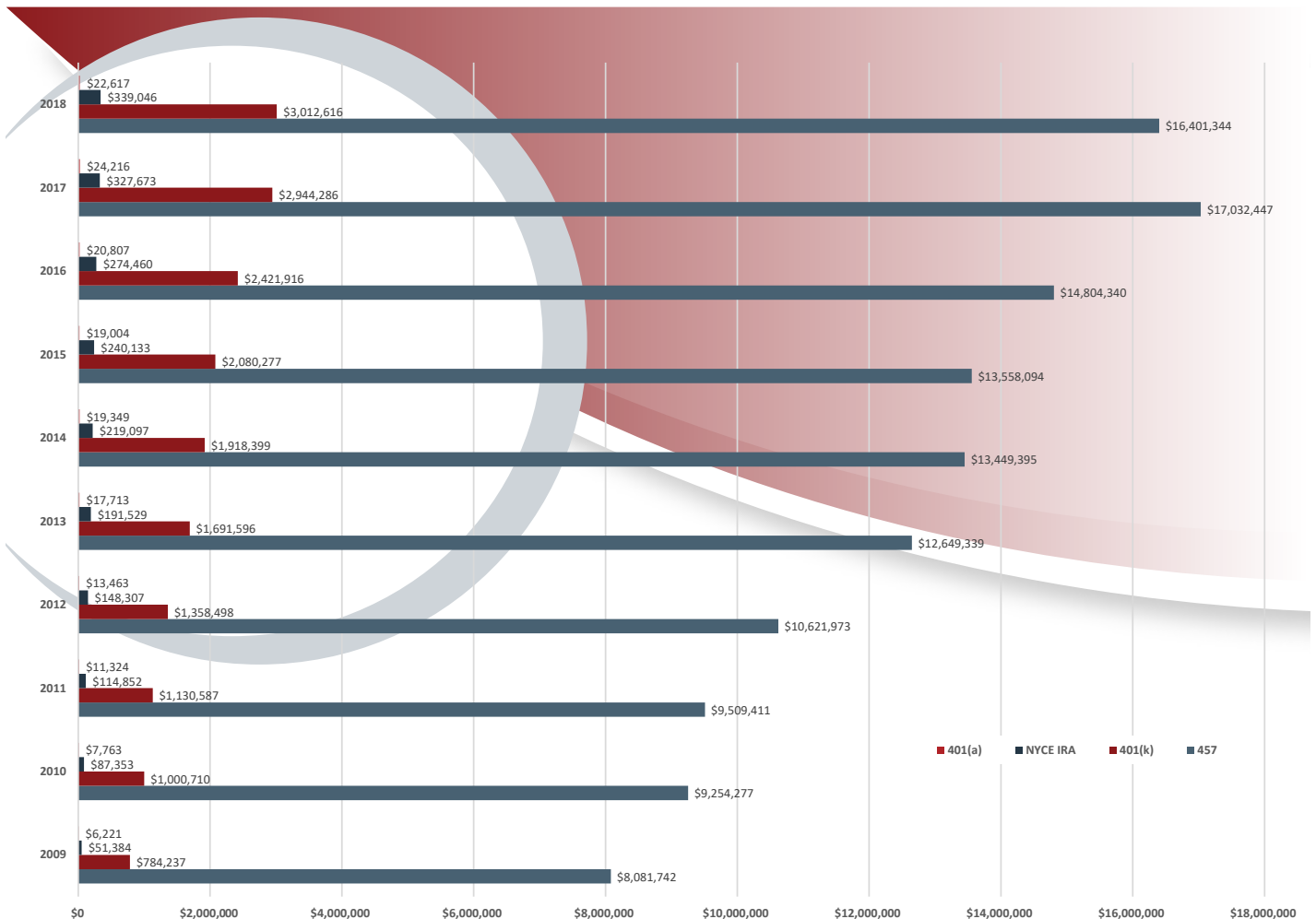
Financial Trend Information

The 457 and 401(k) Plans are defined contribution plans of The City of New York (the “City”) and Related Agencies and Instrumentalities. The NYCE IRA is a deemed IRA under section 408(q) of the Code. The 401(a) Plan is a defined contribution plan that is qualified under section 401(a) of the Code and is a governmental plan under section 414(d) of the Code.

The financial trend information below illustrates how the Plan’s financial position has changed over the past ten years.

Plan Net Position 2009 to 2018 (in thousands)

In 2018, the thirty-second year of the 457, the seventeenth year of the 401(k), the thirteenth year of the NYCE IRA, and the twelfth year of the 401(a), the Deferred Compensation Plan’s combined Plan Net Position exceeded \$19.7 billion. The combined Plans Net Position at December 31, 2018 decreased by \$.5 billion from December 31, 2017.



Financial Trend Information (continued)

Additions to (Deductions from) Assets by type
(in thousands) from 2009 to 2018

Year Ended	Contributions (A)	Stable Value Income	Net Gains (losses) on Variable Investments	Total
457 Plan				
2009	\$ 613,267	\$ 132,910	\$ 1,079,162	\$ 1,825,339
2010	\$ 565,659	\$ 146,009	\$ 781,217	\$ 1,492,885
2011	\$ 547,752	\$ 135,168	\$ (44,608)	\$ 638,312
2012	\$ 539,583	\$ 127,621	\$ 831,523	\$ 1,498,727
2013	\$ 532,228	\$ 110,728	\$ 1,842,660	\$ 2,485,616
2014	\$ 544,344	\$ 95,492	\$ 680,362	\$ 1,320,198
2015	\$ 621,074	\$ 91,950	\$ (79,627)	\$ 633,397
2016	\$ 629,214	\$ 97,074	\$ 1,053,710	\$ 1,779,998
2017	\$ 695,841	\$ 100,145	\$ 2,017,938	\$ 2,813,924
2018	\$ 709,574	\$ 113,504	\$ (814,243)	\$ 8,835
401(k) Plan				
2009	\$ 132,359	\$ 12,065	\$ 98,525	\$ 242,949
2010	\$ 150,899	\$ 15,139	\$ 73,617	\$ 239,655
2011	\$ 151,910	\$ 15,728	\$ (7,321)	\$ 160,317
2012	\$ 156,467	\$ 16,198	\$ 91,612	\$ 264,277
2013	\$ 166,225	\$ 14,761	\$ 202,393	\$ 383,379
2014	\$ 196,968	\$ 13,526	\$ 79,992	\$ 290,486
2015	\$ 226,691	\$ 13,888	\$ (13,133)	\$ 227,446
2016	\$ 255,744	\$ 16,056	\$ 146,785	\$ 418,585
2017	\$ 283,515	\$ 17,837	\$ 311,972	\$ 613,324
2018	\$ 302,518	\$ 21,608	\$ (149,560)	\$ 174,566
NYCE IRA				
2009	\$ 18,942	\$ 991	\$ 4,061	\$ 23,994
2010	\$ 36,268	\$ 1,794	\$ 3,656	\$ 41,718
2011	\$ 30,814	\$ 2,298	\$ (484)	\$ 32,628
2012	\$ 31,212	\$ 2,612	\$ 5,905	\$ 39,729
2013	\$ 35,278	\$ 2,570	\$ 13,663	\$ 51,511
2014	\$ 30,219	\$ 2,345	\$ 6,402	\$ 38,966
2015	\$ 31,005	\$ 2,361	\$ (1,113)	\$ 32,253
2016	\$ 33,984	\$ 2,617	\$ 12,350	\$ 48,951
2017	\$ 39,860	\$ 2,858	\$ 27,141	\$ 69,859
2018	\$ 36,698	\$ 3,402	\$ (12,777)	\$ 27,323
401(a) Plan				
2009	\$ 5,277	\$ 38	\$ 226	\$ 5,541
2010	\$ 537	\$ 39	\$ 982	\$ 1,558
2011	\$ 3,619	\$ 40	\$ (39)	\$ 3,620
2012	\$ 762	\$ 54	\$ 1,502	\$ 2,318
2013	\$ 745	\$ 51	\$ 3,655	\$ 4,451
2014	\$ 715	\$ 44	\$ 1,294	\$ 2,053
2015	\$ 24	\$ 45	\$ (138)	\$ (69)
2016	\$ 23	\$ 47	\$ 2,040	\$ 2,110
2017	\$ 23	\$ 48	\$ 3,676	\$ 3,747
2018	\$ 23	\$ 56	\$ (1,378)	\$ (1,299)

(A) Contributions include contribution from participants, rollovers, less custodial fees.

Deductions from Assets by Type
(in thousands) from 2009 to 2018

Year Ended	Distributions	Administrative Expenses	Total
457 Plan			
2009	\$ 235,595	\$ 12,141	\$ 247,736
2010	\$ 308,620	\$ 11,730	\$ 320,350
2011	\$ 371,806	\$ 11,372	\$ 383,178
2012	\$ 374,310	\$ 11,855	\$ 386,165
2013	\$ 446,213	\$ 12,037	\$ 458,250
2014	\$ 508,158	\$ 11,984	\$ 520,142
2015	\$ 512,324	\$ 12,374	\$ 524,698
2016	\$ 521,331	\$ 12,421	\$ 533,752
2017	\$ 573,108	\$ 12,709	\$ 585,817
2018	\$ 625,702	\$ 14,236	\$ 639,938
401(k) Plan			
2009	\$ 16,504	\$ 979	\$ 17,483
2010	\$ 22,265	\$ 917	\$ 23,182
2011	\$ 29,255	\$ 1,185	\$ 30,440
2012	\$ 35,047	\$ 1,319	\$ 36,366
2013	\$ 48,860	\$ 1,421	\$ 50,281
2014	\$ 62,163	\$ 1,520	\$ 63,683
2015	\$ 63,961	\$ 1,607	\$ 65,568
2016	\$ 74,958	\$ 1,988	\$ 76,946
2017	\$ 89,181	\$ 1,773	\$ 90,954
2018	\$ 104,001	\$ 2,235	\$ 106,236
NYCE IRA			
2009	\$ 1,723	\$ 50	\$ 1,773
2010	\$ 5,699	\$ 50	\$ 5,749
2011	\$ 5,041	\$ 88	\$ 5,129
2012	\$ 6,166	\$ 108	\$ 6,274
2013	\$ 8,168	\$ 121	\$ 8,289
2014	\$ 11,268	\$ 130	\$ 11,398
2015	\$ 11,068	\$ 149	\$ 11,217
2016	\$ 14,439	\$ 185	\$ 14,624
2017	\$ 16,483	\$ 163	\$ 16,646
2018	\$ 15,741	\$ 209	\$ 15,950
401(a) Plan			
2009	\$ 4	\$ 1	\$ 5
2010	\$ 14	\$ 2	\$ 16
2011	\$ 58	\$ 1	\$ 59
2012	\$ 178	\$ 1	\$ 179
2013	\$ 200	\$ 1	\$ 201
2014	\$ 417	\$ 3	\$ 420
2015	\$ 271	\$ 2	\$ 273
2016	\$ 304	\$ 3	\$ 307
2017	\$ 331	\$ 7	\$ 338
2018	\$ 296	\$ 4	\$ 300

**Changes in Plan Net Position
(in thousands) from 2009 to 2018**

Year Ended	457 Plan Totals	401(k) Plan Totals	NYCE IRA Totals	401(a) Plan Totals
2009	\$ 1,577,603	\$ 225,466	\$ 22,221	\$ 5,536
2010	\$ 1,172,535	\$ 216,473	\$ 35,969	\$ 1,542
2011	\$ 255,134	\$ 129,877	\$ 27,499	\$ 3,561
2012	\$ 1,112,562	\$ 227,911	\$ 33,455	\$ 2,139
2013	\$ 2,027,366	\$ 333,098	\$ 43,222	\$ 4,250
2014	\$ 800,056	\$ 226,803	\$ 27,568	\$ 1,633
2015	\$ 108,699	\$ 161,878	\$ 21,036	\$ (342)
2016	\$ 1,246,246	\$ 341,639	\$ 34,327	\$ 1,803
2017	\$ 2,228,107	\$ 522,370	\$ 53,213	\$ 3,409
2018	\$ (631,103)	\$ 68,330	\$ 11,373	\$ (1,599)

Demographic Information

The employers participating in the Plans include The City of New York, the Department of Education, NYC Health + Hospitals, the community colleges of the City University of New York (the 401(k) Plan only), the New York City Housing Authority, the New York City School Construction Authority and the New York City Municipal Water Finance Authority.

The participant information below includes active employees and employees who have severed employment with the City.

Employee Participation and Deferral Trends

Year Ended	Number of Participants (A)	Average Annual Deferral Per Participant (in thousands) (A)	Total Annual Deferrals (in thousands)	Plan Net Position (in thousands)
457 Plan				
2009	117,673	\$ 5	\$ 567,581	\$ 8,081,742
2010	117,785	\$ 5	\$ 564,744	\$ 9,254,277
2011	117,682	\$ 5	\$ 548,341	\$ 9,509,411
2012	118,870	\$ 5	\$ 540,289	\$ 10,621,973
2013	120,770	\$ 4	\$ 533,030	\$ 12,649,339
2014	123,807	\$ 7	\$ 545,251	\$ 13,449,395
2015	129,349	\$ 9	\$ 622,019	\$ 13,558,094
2016	134,877	\$ 9	\$ 630,183	\$ 14,804,340
2017	141,179	\$ 7	\$ 697,028	\$ 17,032,447
2018	146,660	\$ 7	\$ 710,703	\$ 16,401,344
401(k) Plan				
2009	27,847	\$ 5	\$ 128,566	\$ 784,237
2010	29,861	\$ 5	\$ 149,558	\$ 1,000,710
2011	31,519	\$ 5	\$ 151,979	\$ 1,130,587
2012	33,158	\$ 5	\$ 156,556	\$ 1,358,498
2013	35,216	\$ 5	\$ 166,331	\$ 1,691,596
2014	38,086	\$ 9	\$ 197,072	\$ 1,918,399
2015	41,786	\$ 9	\$ 226,803	\$ 2,080,277
2016	45,749	\$ 9	\$ 255,873	\$ 2,421,916
2017	50,080	\$ 6	\$ 283,719	\$ 2,944,286
2018	54,288	\$ 6	\$ 302,721	\$ 3,012,616
NYCE IRA				
2009	1,522	\$ N/A	\$ 18,761	\$ 51,384
2010	2,121	\$ N/A	\$ 36,162	\$ 87,353
2011	2,537	\$ N/A	\$ 30,820	\$ 114,852
2012	2,951	\$ N/A	\$ 31,222	\$ 148,307
2013	3,302	\$ N/A	\$ 35,290	\$ 191,529
2014	3,676	\$ N/A	\$ 30,231	\$ 219,097
2015	4,009	\$ N/A	\$ 31,018	\$ 240,133
2016	4,291	\$ N/A	\$ 33,999	\$ 274,460
2017	4,558	\$ N/A	\$ 39,883	\$ 327,673
2018	4,883	\$ N/A	\$ 36,721	\$ 339,046
401(a) Plan				
2009	1,902	\$ N/A	\$ 5,291	\$ 6,221
2010	2,026	\$ N/A	\$ 525	\$ 7,763
2011	2,780	\$ N/A	\$ 3,619	\$ 11,324
2012	2,871	\$ N/A	\$ 762	\$ 13,463
2013	3,022	\$ N/A	\$ 745	\$ 17,713
2014	3,162	\$ N/A	\$ 715	\$ 19,346
2015	3,134	\$ N/A	\$ 24	\$ 19,004
2016	3,097	\$ N/A	\$ 23	\$ 20,807
2017	3,060	\$ N/A	\$ 23	\$ 24,216
2018	3,028	\$ N/A	\$ 23	\$ 22,617

(A) Information provided by the Plans' recordkeeper, FAScore, LLC

Summary of Administrative Revenues and Expenses from 2009 to 2018 (in thousands)*

Year	Plan	Revenues (1)	E X P E N S E S							Total Expenses
			Salaries	Communication Expenses	Advisory and Auditing Fees	Rent & Reimbursement to the City for Overhead	Administrative Support	Recordkeeping/Loan Fees (2)	Custodian Fees	
2009	457	\$14,411	\$1,172	2,094	631	511	2,165	5,568	833	\$12,974
	401(k)	\$1,329	\$99	220	47	70	186	357	68	\$1,047
	NYCE IRA	\$62	\$6	13	2	3	13	13	4	\$54
	401(a)	-	-	-	-	-	-	1	-	\$1
2010	457	\$16,473	\$988	1,832	552	515	2,193	5,650	581	\$12,311
	401(k)	\$1,630	\$102	74	56	55	125	505	62	\$979
	NYCE IRA	\$85	\$8	6	2	4	6	24	5	\$55
	401(a)	\$2	-	-	-	-	-	2	-	\$2
2011	457	\$12,829	\$978	1,906	459	529	1,863	5,637	635	\$12,007
	401(k)	\$1,395	\$111	223	53	61	193	544	74	\$1,259
	NYCE IRA	\$78	\$11	23	3	6	13	32	7	\$95
	401(a)	\$1	-	-	-	-	-	1	-	\$1
2012	457	\$11,939	\$1,007	1,664	515	503	2,414	5,752	706	\$12,561
	401(k)	\$1,363	\$125	211	65	63	288	567	89	\$1,408
	NYCE IRA	\$77	\$14	23	7	7	19	38	10	\$118
	401(a)	\$2	-	-	-	-	-	1	-	\$1
2013	457	\$12,729	\$1,014	1,629	673	513	2,433	5,775	802	\$12,839
	401(k)	\$1,473	\$133	217	89	68	305	609	106	\$1,527
	NYCE IRA	\$103	\$15	23	10	6	24	43	12	\$133
	401(a)	\$2	-	-	-	-	-	1	-	\$1
2014	457	\$13,306	\$873	1,675	513	540	2,556	5,827	907	\$12,891
	401(k)	\$1,613	\$125	238	76	77	345	659	104	\$1,624
	NYCE IRA	\$123	\$14	27	9	9	23	48	12	\$142
	401(a)	\$3	-	-	-	-	-	3	-	\$3
2015	457	\$13,713	\$1,029	1,636	695	599	2,666	5,749	945	\$13,319
	401(k)	\$1,728	\$156	248	104	76	332	691	112	\$1,719
	NYCE IRA	\$137	\$18	28	12	10	31	50	13	\$162
	401(a)	\$4	-	-	-	-	-	2	-	\$2
2016	457	\$14,071	\$924	1,902	631	586	2,777	5,601	969	\$13,390
	401(k)	\$1,893	\$150	264	88	85	393	1,008	129	\$2,117
	NYCE IRA	\$150	\$17	30	10	10	34	84	15	\$200
	401(a)	\$4	-	-	-	-	-	3	-	\$3
2017	457	\$15,364	\$970	1,874	406	586	2,769	6,104	1,187	\$13,896
	401(k)	\$2,184	\$156	319	64	87	395	752	204	\$1,977
	NYCE IRA	\$175	\$18	36	6	12	38	53	23	\$186
	401(a)	\$4	-	-	-	-	-	7	-	\$7
2018	457	\$16,778	\$990	2,263	675	595	3,240	6,473	1,129	\$15,365
	401(k)	\$2,544	\$178	428	119	99	562	849	203	\$2,438
	NYCE IRA	\$210	\$20	48	13	12	55	61	23	\$232
	401(a)	\$5	-	-	-	-	-	4	-	\$4

1. Revenues include:
 - (a) the annual administrative fees collected from participants;
 - (b) interest earned on assets held in the Plans' custodial account;
 - (c) amounts deducted from the net asset values;
 - (d) securities lending (2009 through 2010) and commission recapture (2009 through 2011); and
 - (e) loan origination and maintenance fees charged to participants who requested a loan during the year and have an outstanding balance.
2. Administrative fees:
 - \$50.00 from 1/1/08-12/31/08;
 - \$57.50 from 1/1/09-12/31/09;
 - \$80.00 from 1/1/10-12/31/10 and
 - \$60.00 from 1/1/11-12/31/18.

* The Summary of Administrative Revenues and Expenses is presented on the accrual basis of accounting.

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Bill de Blasio, Mayor
The City of New York

Renee Campion, Commissioner
Office of Labor Relations

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