# Metropolitan Transportation Authority

(A Component Unit of the State of New York)

Independent Auditors' Review Report

Consolidated Interim Financial Statements as of and for the Nine-Month Period Ended September 30, 2019



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#### INDEPENDENT AUDITORS' REVIEW REPORT

To the Members of the Board of Metropolitan Transportation Authority

#### **Report on the Consolidated Interim Financial Information**

We have reviewed the accompanying consolidated interim statement of the business-type activities of the Metropolitan Transportation Authority (the "MTA"), a component unit of the State of New York, which include the consolidated interim statement of net position as of September 30, 2019, and the related consolidated interim statements of revenues, expenses and changes in net position and consolidated cash flows for the nine-month periods ended September 30, 2019 and 2018 (the "interim financial information").

#### Management's Responsibility for the Interim Financial Information

MTA management is responsible for the preparation and fair presentation of the interim financial information in accordance with accounting principles generally accepted in the United States of America; this responsibility includes the design, implementation, and maintenance of internal control sufficient to provide a reasonable basis for the preparation and fair presentation of the interim financial information in accordance with accounting principles generally accepted in the United States of America.

#### **Auditors' Responsibility**

Our responsibility is to conduct our reviews in accordance with auditing standards generally accepted in the United States of America applicable to reviews of interim financial information. A review of interim financial information consists principally of applying analytical procedures and making inquiries of persons responsible for financial and accounting matters. It is substantially less in scope than an audit conducted in accordance with auditing standards generally accepted in the United States of America, the objective of which is the expression of an opinion regarding the financial information. Accordingly, we do not express such an opinion.

#### Conclusion

Based on our reviews, we are not aware of any material modifications that should be made to the interim financial information referred to above for it to be in accordance with accounting principles generally accepted in the United States of America.

### **Emphasis of Matters**

The MTA is a component unit of the State of New York. The MTA requires significant subsidies from and has material transactions with the City of New York, the State of New York, and the State of Connecticut, and depends on certain tax revenues that are economically sensitive. The accompanying interim financial information does not include any adjustments that might result from the outcome of this uncertainty.

As described in Note 2 to the interim financial statements, the MTA adopted Governmental Accounting Standards Board ("GASB") Statement No. 83, *Certain Asset Retirement Obligations* and GASB Statement No. 84 *Fiduciary Activities* for the period ended September 30, 2019.

#### **Other Matters**

#### Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the required supplementary information on pages 6-18 and 100-114 as listed in the table of contents be presented to supplement the interim financial information. Such information, although not a part of the interim financial information, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the interim financial information 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, applicable to reviews of interim financial information. 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.

### Supplementary Information

The supplementary information on pages 115-121 as listed in the table of contents is presented for the purpose of additional analysis and is not a required part of the interim financial information. These schedules are the responsibility of MTA's management and were derived from and relate directly to the underlying accounting and other records used to prepare the interim financial information. The supplementary information has been subjected to the review procedures applied in our review of the interim financial information. We are not aware of any material modifications that should be made to the supplementary information. We have not audited the supplementary information and do not express an opinion on such information.

# Report on Consolidated Statement of Net Position of the Business-Type Activities of the MTA as of December 31, 2018

We have previously audited, in accordance with auditing standards generally accepted in the United States of America, the business-type activities of the MTA, which include the consolidated statement of net position as of December 31, 2018, and the related consolidated statement of revenues, expenses and changes in net position and cash flows for the year then ended (not presented herein); and we expressed an unmodified audit opinion on those audited consolidated financial statements of the business-type activities of the MTA in our report dated June 26, 2019, which contains emphasis of matter paragraphs related to the significant subsidies from other governmental entities that the MTA receives and the adoption of GASB 75; and also contains other matter paragraphs related to the inclusion of required supplementary information and supplementary information in the financial statements. In our opinion, the accompanying consolidated statement of net position of the business-type activities of the MTA as of December 31, 2018, is consistent, in all material respects, with the audited consolidated financial statements of the business-type activities of the MTA from which it has been derived.

#### Reports on the Financial Statements of the Fiduciary Activities of the MTA as of December 31, 2018 and 2017

We have previously audited, in accordance with auditing standards generally accepted in the United States of America, the financial statements of each of the individual fiduciary funds, as listed below, that comprise the fiduciary activities of the MTA, , as of and for the years ended December 31, 2018 and 2017; and we expressed unmodified audit opinions on each of the following audited fiduciary fund financial statements.

Fiduciary Fund Name	Report date for the years ended December 31, 2018 and 2017
Metropolitan Transportation Authority Defined Benefit Pension Plan ("Defined Benefit Pension Plan")	February 24, 2020
The Long Island Rail Road Company Plan for Additional Pensions ("LIRR Company Plan for Additional Pensions")	February 24, 2020

Manhattan and Bronx Surface Transit Operating	February 24, 2020
Authority Pension Plan ("MaBSTOA Plan")	
Metro-North Commuter Railroad Company Cash	February 24, 2020
Balance Plan ("Metro-North Cash Balance Plan")	
Metropolitan Transportation Authority Retiree	February 24, 2020
Welfare Benefits Plan ("Other Post-employment	-
Benefits Plan" or "OPEB Plan")	
Metropolitan Transportation Authority Deferred	February 24, 2020
Compensation Program ("Deferred Compensation	
401K Plan")	

In our opinion the fiduciary activities of the MTA as of December 31, 2018 and 2017, are consistent, in all material respects, with the individual audited fiduciary fund financial statements from which it has been derived.

March 25, 2020

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#### MANAGEMENT'S DISCUSSION AND ANALYSIS

# AS OF SEPTEMBER 30, 2019 AND DECEMBER 31, 2018 AND FOR THE NINE-MONTH PERIODS ENDED SEPTEMBER 30, 2019 AND 2018

(\$ In Millions, except as noted)

#### OVERVIEW OF THE CONSOLIDATED INTERIM FINANCIAL STATEMENTS

#### Introduction

This report consists of seven parts: Management's Discussion and Analysis ("MD&A"), Consolidated Interim Financial Statements, Fiduciary Funds Financial Statements, Notes to the Consolidated Interim Financial Statements, Required Supplementary Information, Supplementary Information - Combining Fiduciary Fund Financial Statements, and Supplementary Information.

#### Management's Discussion and Analysis

This MD&A provides a narrative overview and analysis of the financial activities of the Metropolitan Transportation Authority and its consolidated subsidiaries and affiliates (the "MTA" or "MTA Group") as of September 30, 2019 and December 31, 2018 and for the nine-month periods ended September 30, 2019 and 2018. For financial reporting purposes, the subsidiaries and affiliates of the MTA are blended component units. This management discussion and analysis is intended to serve as an introduction to the MTA Group's consolidated interim financial statements. It provides an assessment of how the MTA Group's position has improved or deteriorated and identifies the factors that, in management's view, significantly affected the MTA Group's overall financial position. It may contain opinions, assumptions, or conclusions by the MTA Group's management that must be read in conjunction with, and should not be considered a replacement for, the consolidated interim financial statements.

#### The Consolidated Interim Financial Statements

The Consolidated Interim Statements of Net Position, which provide information about the nature and amounts of resources with present service capacity that the MTA Group presently controls (assets), consumption of net assets by the MTA Group that is applicable to a future reporting period (deferred outflow of resources), present obligations to sacrifice resources that the MTA Group has little or no discretion to avoid (liabilities), and acquisition of net assets by the MTA Group that is applicable to a future reporting period (deferred inflow of resources) with the difference between assets/deferred outflow of resources and liabilities/deferred inflow of resources being reported as net position.

The Consolidated Interim Statements of Revenues, Expenses and Changes in Net Position, which provide information about the MTA's changes in net position for the period then ended and accounts for all of the period's revenues and expenses, measures the success of the MTA Group's operations during the year and can be used to determine how the MTA has funded its costs.

The Consolidated Interim Statements of Cash Flows, which provide information about the MTA Group's cash receipts, cash payments and net changes in cash resulting from operations, noncapital financing, capital and related financing, and investing activities.

### The Fiduciary Funds Financial Statements

Fiduciary funds are used to account for resources held in a trustee capacity for the benefit of parties outside of a government entity. Fiduciary funds are not reported in the MTA's consolidated interim financial statements because the resources of those funds are not available to support the MTA's own programs. The MTA's fiduciary funds are collectively reported as Pension and Other Employee Benefit Trust Funds.

The Statement of Fiduciary Net Position presents financial information about the assets, liabilities, and the fiduciary net position held in trust of the fiduciary funds of the MTA.

The Statement of Changes in Fiduciary Net Position presents fiduciary activities of the fiduciary funds as additions and deductions to the fiduciary net position.

#### Notes to the Consolidated Interim Financial Statements

The notes provide information that is essential to understanding the consolidated interim financial statements, such as the MTA Group's accounting methods and policies, details of cash and investments, employee benefits, long-term debt, lease transactions, future commitments and contingencies of the MTA Group, and information about other events or developing situations that could materially affect the MTA Group's financial position.



### Required Supplementary Information

The required supplementary information provides information about the changes in the net pension liability and net other postemployment benefits ("OPEB") liability, employer contributions for the OPEB and pension plans, actuarial assumptions used to calculate the net pension liability and net OPEB liability, historical trends, and other required supplementary information related to the MTA Group's cost-sharing multiple-employer defined benefit pension plans.

# Supplementary Information - Combining Fiduciary Funds Financial Statements

The supplementary information combining fiduciary funds financial statements includes the combining statement of fiduciary net position and the combining statement of changes in fiduciary net position which provides financial information on each fiduciary fund in which the MTA is functioning as a trustee for another party. The MTA's fiduciary funds are categorized as Pension and Other Employee Benefit Trust Funds.

# Supplementary Information

The supplementary information provides a series of reconciliations between the MTA Group's financial plan and the consolidated interim statements of revenues, expenses and changes in net position.

#### FINANCIAL REPORTING ENTITY

The Metropolitan Transportation Authority ("MTA" or "MTA Group") was established under the New York Public Authorities Law and is a public benefit corporation and a component unit of the State of New York whose mission is to continue, develop, and improve public transportation and to develop and implement a unified public transportation policy in the New York metropolitan area. The financial reporting entity consists of subsidiaries and affiliates, considered component units of the MTA, because the Board of the MTA serves as the overall governing body of these related entities.

#### **MTA Related Groups**

The following entities, listed by their legal names, are subsidiaries (component units) of the MTA:

- Metropolitan Transportation Authority Headquarters ("MTAHQ") provides support in budget, cash management, finance, legal, real estate, treasury, risk and insurance management, and other services to the related groups listed below.
- The Long Island Rail Road Company ("MTA Long Island Rail Road") provides passenger transportation between New York City ("NYC") and Long Island.
- Metro-North Commuter Railroad Company ("MTA Metro-North Railroad") provides passenger transportation between NYC and the suburban communities in Westchester, Dutchess, Putnam, Orange, and Rockland counties in New York State ("NYS") and New Haven and Fairfield counties in Connecticut.
- Staten Island Rapid Transit Operating Authority ("MTA Staten Island Railway") provides passenger transportation on Staten Island.
- First Mutual Transportation Assurance Company ("FMTAC") provides primary insurance coverage for certain losses, some of which are reinsured, and assumes reinsurance coverage for certain other losses.
- MTA Capital Construction Company ("MTA Capital Construction") provides oversight for the planning, design and construction of current and future major MTA system-wide expansion projects.
- MTA Bus Company ("MTA Bus") operates certain bus routes in areas previously served by private bus operators pursuant
  to franchises granted by the City of New York.
- MTAHQ, MTA Long Island Rail Road, MTA Metro-North Railroad, MTA Staten Island Railway, FMTAC, MTA Capital Construction, and MTA Bus, collectively are referred to herein as MTA. MTA Long Island Rail Road and MTA Metro-North Railroad are referred to collectively as the Commuter Railroads.

The following entities, listed by their legal names, are affiliates (component units) of the MTA:

- New York City Transit Authority ("MTA New York City Transit") and its subsidiary, Manhattan and Bronx Surface
  Transit Operating Authority ("MaBSTOA"), provide subway and public bus service within the five boroughs of New
  York City.
- Triborough Bridge and Tunnel Authority ("MTA Bridges and Tunnels") operates seven toll bridges, two tunnels, and the Battery Parking Garage, all within the five boroughs of New York City.



# CONDENSED CONSOLIDATED FINANCIAL INFORMATION AND CONDENSED CONSOLIDATED INTERIM FINANCIAL INFORMATION

The following sections discuss the significant changes in the MTA Group's financial position as of September 30, 2019 and December 31, 2018 and for the nine-month periods ended September 30, 2019 and 2018. An analysis of major economic factors and industry trends that have contributed to these changes is provided. It should be noted that for purposes of the MD&A, the information contained within the summaries of the consolidated interim financial statements and the various exhibits presented were derived from the MTA Group's consolidated interim financial statements.

# Total Assets and Deferred Outflows of Resources, Distinguishing Between Capital Assets, Other Assets and Deferred Outflows of Resources

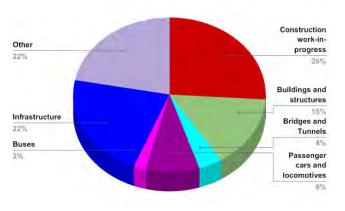
Capital assets include, but are not limited to: bridges, structures, tunnels, construction of buildings and the acquisition of buses, equipment, passenger cars, and locomotives.

Other assets include, but are not limited to: cash, restricted and unrestricted investments, State and regional mass transit taxes receivables, and receivables from New York State.

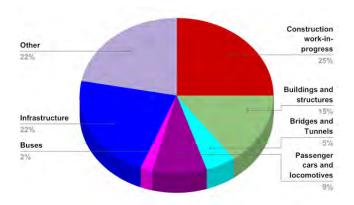
Deferred outflows of resources reflect: changes in fair market values of hedging derivative instruments that are determined to be effective, unamortized loss on refunding, deferred outflows from pension activities, and deferred outflows from OPEB activities.

(In millions)	Sept	ember 30, 2019	De	ecember 31,	Increase /
(In millions)		audited)		2018	 (Decrease)
Capital assets — net (see Note 6)	\$	75,324	\$	72,511	\$ 2,813
Other assets		11,014		7,827	3,187
Total Assets		86,338		80,338	6,000
Deferred outflows of resources		4,532		4,360	172
Total assets and deferred outflows of resources	\$	90,870	\$	84,698	\$ 6,172

#### Capital Assets, Net - September 30, 2019 (Unaudited)



#### Capital Assets, Net - December 31, 2018



# Significant Changes in Assets and Deferred Outflows of Resources Include:

# September 30, 2019 versus December 31, 2018

- Net capital assets increased at September 30, 2019 by \$2,813 or 3.9%. There was an increase in other capital assets of \$1,196, an increase in construction in progress of \$1,828, an increase in infrastructure of \$864, an increase in buildings and structures of \$284, an increase in bridges and tunnels of \$30, an increase in passenger cars and locomotives of \$322, and an increase in land of \$3. This was offset by a decrease in buses of \$162 due to disposal of buses and a net increase in accumulated depreciation of \$1,552. See Note 6 to the MTA's Consolidated Interim Financial Statements for further information. Some of the more significant projects contributing to the net increase included:
  - Continued progress on the East Side Access, Second Avenue Subway and the subway action plan.
  - Infrastructure work including:
    - o Repairs and improvements of all MTA Bridge and Tunnels' facilities.
    - o The MTA Long Island Railroad is constructing a third track between Floral Park and Hicksville.



- Improvements to MTA Long Island Railroad's road-assets, replacement of signal power lines, various right-of-way enhancements and upgrades of radio communications.
- o Continued improvements to MTA Metro-North Railroad stations, tracks and structures, power rehabilitation of substations, and security.
- o Subway and bus real-time customer information and communications systems.
- Continued structural rehabilitation and repairs of the ventilation system at various facilities.
- Continued improvements made to the East River Tunnel Fire and Life Safety project for 1st Avenue, Long Island City and construction of three Montauk bridges.
- Continued passenger station rehabilitations for Penn Station and East Side Access Passenger station.
- Ongoing work by MTA New York City Transit to make stations fully accessible and structurally reconfigured in accordance with the Americans with Disability Act ("ADA") standards.
- Other assets increased by \$3,187 or 40.7%. The major items contributing to this change include:
  - An increase in current and non-current receivables of \$986 primarily due to an increase from State and regional mass transit tax of \$1,173 and an increase in State and local operating assistance of \$139. The increase was offset by a decrease in Federal and State grants for capital projects of \$136, a decrease in New York City operating recovery subsidy to MTA New York City Transit, MTA Staten Island Railway, and MTA Bus of \$88, a decrease in Station Maintenance receivable of \$44, a net decrease in other current receivables of \$31, a decrease in Mortgage Recording tax of \$2, and a net decrease in other non-current receivables of \$25.
  - An increase in cash of \$41 from net cash flow activities.
  - An increase in investments of \$2,157 mainly due to the issuance of new debt.
  - A net increase in various other current and noncurrent assets of \$3.
- Deferred outflows of resources increased by \$172 or 3.9%. This increase was primarily due to a change in the fair value of derivative instruments of \$145, an increase in deferred outflows related to pensions of \$89 and other post-employment benefits of \$25. This increase was offset by a decrease in deferred outflows for unamortized loss of \$87.

#### Total Liabilities and Deferred Inflows of Resources, Distinguishing Between Current Liabilities, Non-Current Liabilities and Deferred Inflows of Resources

Current liabilities include: accounts payable, accrued expenses, current portions of long-term debt, capital lease obligations, pollution remediation liabilities, unredeemed fares and tolls, and other current liabilities.

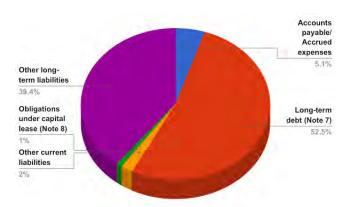
Non-current liabilities include: long-term debt, capital lease obligations, claims for injuries to persons, post-employment benefits and other non-current liabilities.

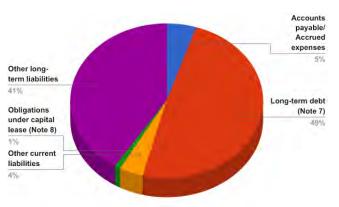
Deferred inflows of resources reflect unamortized gains on refunding, pension related deferred inflows, and deferred inflows from OPEB activities.

	Septe	ember 30,	Dece	ember 31,		Increase /
(In millions)	2019 2018		2018			(Decrease)
	(Un	audited)				
Current liabilities	\$	6,280	\$	7,609	\$	(1,329)
Non-current liabilities		77,950		72,022		5,928
Total liabilities		84,230		79,631		4,599
Deferred inflows of resources		1,112		1,114		(2)
Total liabilities and deferred inflows of resources	\$	85,342	\$	80,745	\$	4,597

#### Total Liabilities - September 30, 2019 (Unaudited)

## Total Liabilities - December 31, 2018





# Significant Changes in Liabilities and Deferred Inflows of Resources Include: September 30, 2019 versus December 31, 2018

- Current liabilities decreased by \$1,329 or 17.5%. The net decrease in current liabilities was primarily due to a decrease in the current portion of long-term debt of \$1,481 due to the maturity of Bond Anticipation Notes and debt service payments, a decrease in capital accruals of \$344, and a decrease in unearned premiums of \$49, a decrease in unearned revenues of \$18. The decrease was offset by an increase in interest payable of \$420, an increase in employee related accruals of \$71, and an increase in accounts payable due to vendors of \$56. There was a net increase in various other current liabilities of \$16.
- Non-current liabilities increased by \$5,928 or 8.2%. This increase was mainly due to:
  - An increase in the non-current portion of long-term debt of \$5,591 primarily due to 2019 bond issuances (See Note 7).
  - An increase in estimated liability arising from injuries to persons (Note 10) of \$206 due to revised calculations of the workers' compensation reserve.
  - An increase in derivative liabilities of \$138 resulting mainly from changes in market valuation and a reduction in the notional amount of derivative contracts.
  - A net decrease in other various non-current liabilities of \$7.
- Deferred inflows of resources decreased by \$2 or 0.2%, due to gain on refunding of debt of \$2.

# Total Net Position, Distinguishing Between Net Investment in Capital Assets, Restricted Amounts, and Unrestricted Amounts

(In millions)	September 30, 2019		De	ecember 31, 2018	Increase / (Decrease)
	(Un	audited)			
Net investment in capital assets	\$	30,126	\$	30,000	\$ 126
Restricted for debt service		1,720		454	1,266
Restricted for claims		229		206	23
Restricted for other purposes		1,080		1,230	(150)
Unrestricted		(27,627)		(27,937)	310
Total Net Position	\$	5,528	\$	3,953	\$ 1,575



### Significant Changes in Net Position Include:

## September 30, 2019 versus December 31, 2018

At September 30, 2019, total net position increased by \$1,575 or 39.8%, when compared with December 31, 2018. This change is a result of net non-operating revenues of \$5,217 and appropriations, grants and other receipts externally restricted for capital projects of \$1,881 offset by operating losses of \$5,523.

The net investment in capital assets increased by \$126 or 0.4%. Funds restricted for debt service, claims and other purposes increased by \$1,139 or 60.3% in the aggregate, mainly due to scheduled debt service payments. Unrestricted net position increased by \$310 or 1.1%.

### Condensed Consolidated Interim Statement of Revenues, Expenses and Changes in Net Position

(In millions)	]	Nine-Month I Septem		ded	Iı	ncrease /
		2019		018	(I	ecrease)
	(Un	audited)	(Una	udited)		
Operating revenues						
Passenger and tolls	\$	6,280	\$	6,059	\$	221
Other		466		431		35
Total operating revenues		6,746		6,490		256
Non-operating revenues						
Grants, appropriations and taxes		5,561		5,389		172
Other		748		593		155
Total non-operating revenues		6,309		5,982		327
Total revenues		13,055		12,472		583
Operating expenses						
Salaries and wages		4,719		4,651		68
Retirement and other employee benefits		2,319		2,236		83
Postemployment benefits other than pensions		483		1,585		(1,102)
Depreciation and amortization		2,135		2,010		125
Other expenses		2,613		2,570		43
Total operating expenses		12,269		13,052		(783)
Non-operating expenses		_		_		_
Interest on long-term debt		1,089		1,097		(8)
Other net non-operating expenses		3		3		-
Total non-operating expenses		1,092		1,100		(8)
Total expenses		13,361		14,152		(791)
Loss before appropriations, grants and other receipts						
externally restricted for capital projects		(306)		(1,680)		1,374
Appropriations, grants and other receipts						
externally restricted for capital projects		1,881		1,204		677
Change in net position		1,575		(476)		2,051
Net position, beginning of period		3,953		5,224		(1,271)
Net position, end of period	<u>\$</u>	5,528	\$	4,748	\$	780

#### Revenues and Expenses, by Major Source:

# Period ended September 30, 2019 versus 2018

- Total operating revenues increased by \$256 or 3.9%. This increase was mainly due to an increase in fare and toll revenue of \$221 primarily due to an increase in vehicle crossings for the period ended September 30, 2019, when compared to the period ended September 30, 2018. The increase in Other operating revenues of \$35 was due to higher advertising revenues collected on behalf of agencies.
- Total non-operating revenues increased by \$327 or 5.5%.
  - Total grants, appropriations, and taxes increased by \$172. This was due to an increase in Mass Transportation operating assistance of \$137, an increase in Payroll Mobility Tax of \$142, an increase from New York City Assistance Fund of \$260, an increase in Internet Sales Tax of \$42, an increase in Mass Transportation Trust Fund from New York State of \$16, an increase in Mortgage Recording Tax subsidies of \$13 and a net increase in other subsidies of \$8. The



increases were offset by a decrease in NYS/NYC Subway Action Plan of \$411, a decrease in Urban Tax of \$24, and a decrease in Aid Trust subsidies of \$11.

- Other non-operating revenues increased by \$155 primarily due to an increase in operating subsidies from New York City of \$66 for MTA Bus and MTA Staten Island Railway, an increase in other net non-operating revenue of \$92, and an increase in station maintenance, operation and use assessments of \$2. This increase was offset by a decrease in subsidies from the Connecticut Department of Transportation for the MTA Metro-North Railroad of \$5.
- Labor costs decreased by \$951 or 11.2%. The major changes within this category are:
  - Salaries, wages and overtime increased by \$68 primarily due to increases in MTA New York City Transit to support various maintenance and weather-related requirements.
  - Retirement and employee benefits increased by \$83.
  - Postemployment benefits other than pensions decreased by \$1,102 based on changes in the accounting for OPEB.
     The 2019 financial results reflect accounting for OPEB under GASB 75. The 2018 financial results reflect accounting for OPEB under GASB45.
- Non-labor operating costs increased by \$168 or 3.7%. The variance was primarily due to:
  - An increase in depreciation of \$125 primarily due to assets placed in service in the current year.
  - An increase in paratransit service contracts of \$28 primarily due to higher paratransit taxi expenses.
  - An increase in claims arising from injuries to persons of \$20 based on the most recent actuarial valuations.
  - An increase in material and supplies by \$15, mainly due to revised maintenance and repairs requirements for transit and commuter systems.
  - An increase in insurance of \$13 primarily due to changes in insurance policy requirements.
  - An increase in maintenance and other contracts by \$52 due to changes in maintenance work requirements.
  - A decrease in professional service contracts of \$61 due to changes in consulting services requirements.
  - A decrease in electric power of \$19 and fuel of \$6 due to changes in rates and consumption.
  - A net increase in other various expenses of \$1.
- Total net non-operating expenses decreased by \$8 or 0.7% due to decreases in interest on long-term debt of \$8.
- Appropriations, grants and other receipts externally restricted for capital projects increased by \$677 or 56.2% mainly due to timing of requisitioning for Federal and State grants.

# OVERALL FINANCIAL POSITION AND RESULTS OF OPERATIONS AND IMPORTANT ECONOMIC CONDITIONS

#### **Economic Conditions**

Metropolitan New York is the most transit-intensive region in the United States, and a financially sound and reliable transportation system is critical to the region's economic well-being. The MTA consists of urban subway and bus systems, suburban rail systems, and bridge and tunnel facilities, all of which are affected by many different economic forces. To achieve maximum efficiency and success in its operations, the MTA must identify economic trends and continually implement strategies to adapt to changing economic conditions.

Preliminary MTA system-wide utilization through the third quarter of 2019 increased relative to 2018, with ridership up by 4.8 million trips (0.3%). The increase was driven by MTA New York City Transit subway ridership, which rose by 12.8 million trips (1.0%). In addition, MTA Long Island Rail Road ridership rose by 1.6 million trips (2.4%) and MTA Metro-North Railroad rose by 0.3 million trips (0.5%). These increases through the third quarter were partially offset by ridership declines at MTA New York City Transit bus, which declined by 9.6 million trips (2.3%), MTA Bus, which declined by 0.2 million trips (0.2%), and MTA Staten Island Railway, which declined by 0.1 million trips (3.3%). The decline in bus ridership is consistent with a trend that began in 2009 and has been observed nationally, while the increase in subway ridership is the second quarterly increase after 12 consecutive year-on-year quarterly decreases that began in the second quarter of 2016. Vehicle traffic at MTA Bridges and Tunnels facilities through the third quarter increased by 7.0 million crossings (2.9%) compared with 2018 levels. The 2019 New York State Budget approved congestion pricing in Manhattan south of 60th Street, which is scheduled to go into effect in 2021—this will likely impact ridership and vehicle crossings.

Seasonally adjusted non-agricultural employment in New York City for the third quarter was higher in 2019 than in 2018 by 71.0 thousand jobs (1.6%). On a quarter-to-quarter basis, New York City employment modestly declined, by fewer than one



thousand jobs, after increasing for thirty-five quarters consecutive quarters—the last decline occurred in the third quarter of 2010—and is just shy of last quarter when it was higher than at any time since 1950, when non-agricultural employment levels for New York City were first recorded by the Bureau of Labor Statistics.

National economic growth, as measured by Real Gross Domestic Product ("RGDP"), expanded at an annualized rate of 1.9% in the third quarter of 2019, according to the most recent advance estimate released by the Bureau of Economic Analysis. The increase in RGDP reflected positive contributions from personal consumption expenditures, federal government spending, fixed residential investment, state and local government spending, and exports. Partially offsetting these favorable impacts were negative contributions from nonresidential fixed investment and private inventory investment Imports, which are a subtraction in the RGDP calculation, increased. The deceleration in RGDP growth, over the second quarter's revised 2.0% growth rate, reflected downturns in federal government spending, and state and local government spending, and a larger decrease in nonresidential fixed investment, which were partially offset by a smaller decrease in private inventory investment, and upturns in exports and in residential fixed investment.

The New York City metropolitan area's price inflation, as measured by the Consumer Price Index for All Urban Consumers ("CPI-U"), was lower than the national average in the third quarter of 2019, with the metropolitan area index increasing 1.65% while the national index increased 1.76%, when compared with the third quarter of 2018. Decreases in both the regional and national price of energy products (4.60% for the region, and 3.72% nationally) contributed to the low inflation rates; in the metropolitan area, the CPI-U exclusive of energy products increased by 2.12%, while nationally, inflation exclusive of energy products increased 2.24%. Decreasing more sharply than overall energy prices, the spot price for New York Harbor conventional gasoline declined by 15.0%, from an average price of \$2.08 per gallon to an average price of \$1.77 per gallon between the third quarters of 2018 and 2019.

The Federal Open Market Committee ("FOMC") twice lowered its target for the Federal Funds rate during the third quarter of 2019, by a quarter point on August 1, 2019 and again by another quarter point on September 19, 2019 to the target range of 1.75% to 2.0%. Job gains have been solid, on average, in recent months, and the unemployment rate has remained low. Although household spending has been rising at a strong pace, business fixed investment and exports have weakened. On a twelve-month basis, overall inflation and inflation for items other than food and energy are running below 2 percent, and market-based measures of inflation compensation remain low and survey-based measures of longer-term inflation expectations are little changed. The target rate reduction supports the FOMC's view that sustained expansion of economic activity, strong labor market conditions and inflation near the FOMC's 2 percent objective remain the most likely outcomes, but uncertainties remain. The FOMC indicated that the timing and size of future adjustments to the target range would consider realized and expected economic conditions relative to its maximum employment objective and its 2 percent inflation objective, including measures of labor market conditions, indicators of inflation and inflation expectations, and financial and international developments.

The influence of the Federal Reserve's monetary policy on the mortgage market is a matter of interest to the MTA, since variability of mortgage rates can affect the number of real estate transactions and thereby impact receipts from the Mortgage Recording Tax ("MRT") and Urban Tax, two important sources of MTA revenue. Mortgage Recording Tax collections for the third quarter of 2019 were higher than the third quarter of 2018 by \$12.0 (10.2%); receipts in the third quarter of 2019 were \$30.2 (30.4%) higher than receipts from the second quarter. Despite the overall recovery of MRT receipts that began in 2012 following the financial crisis, average monthly receipts in the third quarter of 2019 remain \$25.6 (40.2%) lower than the monthly average for 2006, just prior to the steep decline in Mortgage Recording Tax revenues. MTA's Urban Tax receipts— which are based on commercial real estate transactions and mortgage recording activity within New York City, and can vary significantly from quarter to quarter based on the timing of exceptionally high-priced transactions—were \$19.4 (11.5%) lower in the third quarter of 2019 than receipts for the third quarter of 2018; receipts in the third quarter of 2019 were \$14.3 (10.6%) higher than receipts from the second quarter. Average monthly receipts in the third quarter of 2019 were \$16.4 (22.2%) lower than the monthly average for 2007, just prior to the steep decline in Urban Tax revenues following the 2008 financial crisis.

#### Results of Operations

MTA Bridges and Tunnels - For the period ended September 30, 2019, operating revenue was \$1.565 billion, an increase of \$78 compared to the nine months ended September 30, 2018. Paid traffic through September 2019 totaled 247.4 million crossings, which was 7.0 million, or 2.9%, higher than the same period in 2018. The increase is primarily due to improvements in the regional economy, relatively favorable winter weather, stable gas prices and the substantial completion of Sandy restoration work at the Queens Midtown Tunnel and the Hugh L. Carey Tunnel in the fourth quarter of 2018. Toll revenue through September 2019 totaled \$1.548 billion, which was \$77, or 5.2%, greater than the same period in 2018. The additional revenue was due to the higher traffic volume and a toll increase implemented on March 31, 2019.

The E-ZPass electronic toll collection system experienced year-to-year increases in market share. The total average market share as of September 30, 2019 was 94.8% compared to 94.2% as of September 30, 2018. The average weekday market share for passenger and commercial vehicles were 95.4% and 94.9% for the first three quarters of 2019 and 2018, respectively.



MTA New York City Transit - For the period ended September 30, 2019, revenue from fares was \$3.423 billion, an increase of \$104, or 3.1%, compared to September 30, 2018. For the same comparative period, total operating expenses were lower by \$499, or 5.9%, totaling \$8.002 billion for the nine months ended September 30, 2019.

*MTA Long Island Rail Road* – Total operating revenue for the period ended September 30, 2019 was \$604, which was higher by \$23, or 4.0%, compared to September 30, 2018. For the same comparative period, operating expenses were lower by \$69, or 4.6%, totaling \$1.423 billion for the nine months ended September 30, 2019.

MTA Metro-North Railroad – For the nine months ended September 30, 2019, operating revenues totaled \$603, an increase of \$19, or 3.3%, compared to September 30, 2018. During the same period, operating expenses decreased by \$38, or 3.2%, to \$1,168. For the nine months ended September 30, 2019, fare revenue increased by 2.4% to \$561 compared to September 30, 2018. Passenger fares accounted for 93.0% and 93.8% of operating revenues in 2019 and 2018, respectively. The remaining revenue represents collection of rental income from stores in and around passenger stations and revenue generated from advertising.

The MTA receives the equivalent of four quarters of Metropolitan Mass Transportation Operating Assistance ("MMTOA") receipts each year, with the state advancing the first quarter of each succeeding calendar year's receipts in the fourth quarter of the current year. This results in little or no Metropolitan Mass Transportation Operating Assistance receipts being received during the first quarter of each calendar year. The MTA has made other provisions to provide for cash liquidity during this period. During March 2016, the State appropriated \$1.6 billion in MMTOA funds. There has been no change in the timing of the State's payment of, or MTA's receipt of, Dedicated Mass Transportation Trust Fund ("MTTF") receipts, which MTA anticipates will be sufficient to make monthly principal and interest deposits into the Debt Service Fund for the Dedicated Tax Fund Bonds. The total MRT for the period ended September 30, 2019 was \$340 compared to \$327 at September 30, 2018.

#### Capital Programs

At September 30, 2019, \$22,874 had been committed and \$11,209 had been expended for the combined 2015-2019 MTA Capital Programs and the 2015-2019 MTA Bridges and Tunnels Capital Program, and \$28,208 had been committed and \$23,944 had been expended for the combined 2010-2014 MTA Capital Programs and the 2010-2014 MTA Bridges and Tunnels Capital Program, and \$24,134 had been committed and \$23,772 had been expended for the combined 2005-2009 MTA Capital Programs and the 2005-2009 MTA Bridges and Tunnels Capital Program.

The MTA Group has ongoing capital programs, which except for MTA Bridges and Tunnels are subject to the approval of the Metropolitan Transportation Authority Capital Program Review Board ("CPRB"), and are designed to improve public transportation in the New York Metropolitan area.

2015-2019 Capital Program — Capital programs covering the years 2015-2019 for: (1) the commuter railroad operations of the MTA conducted by MTA Long Island Rail Road and MTA Metro-North Railroad (the "2015–2019 Commuter Capital Program"), (2) the transit system operated by MTA New York City Transit and its subsidiary, MaBSTOA, the MTA Bus Company, and the rail system operated by MTA Staten Island Railway (the "2015–2019 Transit Capital Program") were originally approved by the MTA Board in September 2014. The capital programs were subsequently submitted to the Capital Program Review Board ("CPRB") in October 2014. This plan was disapproved by the CPRB, without prejudice, in October 2014. The capital program for the toll bridges and tunnels operated by MTA Bridges and Tunnels (the "2015–2019 MTA Bridges and Tunnels Capital Program") was approved by the MTA Board in September 2014 and was not subject to CPRB approval.

On April 20, 2016, the MTA Board approved revised capital programs for the years covering 2015-2019. The revised capital programs provided for \$29,456 in capital expenditures. On May 23, 2016, the CPRB deemed approved the revised 2015-2019 Capital Programs for the Transit and Commuter systems as submitted. The revised 2015-2019 MTA Bridges and Tunnels Capital Program, was approved by the MTA Board on April 20, 2016.

On February 23, 2017, the MTA Board approved a revision to the CPRB portion of the capital programs for the years covering 2015-2019, adding \$119 transferred from prior capital programs to support additional investment projects. On March 30, 2017, the CPRB deemed approved the revised 2015-2019 Capital Programs for the Transit and Commuter systems as submitted. On May 24, 2017, the MTA Board approved a full amendment to the 2015-2019 Capital Programs to reflect updated project estimates and rebalanced programs to address budgetary and funding needs of priority projects that include Second Avenue Subway Phase 2, MTA Long Island Rail Road regional mobility, station enhancement work, investments at Penn Station, and new Open Road Tolling at MTA Bridges and Tunnels. On July 31, 2017, the CPRB deemed approved the revised 2015-2019 Capital Programs for the Transit and Commuter systems totaling \$29,517, as submitted. The revised 2015-2019 MTA Bridges and Tunnels Capital Program totaling \$2,940, as approved by the MTA Board in May 2017, was not subject to CPRB approval. On December 13, 2017, the MTA Board approved an amendment adding \$349 to the 2015-2019 Capital Program for the Transit system in support of the NYC Subway Action Plan. On April 25, 2018, the MTA Board approved a full amendment to increase the 2015-2019 Capital Programs to \$33,270 reflecting updated project cost estimates, emerging new needs across the agencies, and reallocation of funds within the East Side Access and Regional Investment programs, among others. On June 1, 2018, the CPRB deemed approved the revised 2015-2019 Capital Programs for the Transit and Commuter systems totaling \$30,334, as submitted. The revised 2015-2019 MTA Bridges and Tunnels Capital Program totaling \$2,936, as approved by the MTA Board



in April 2018, was not subject to CPRB approval.

By September 30, 2019, the revised 2015-2019 Capital Programs provided \$33,273 in capital expenditures, of which \$16,742 relates to ongoing repairs of, and replacements to, the transit system operated by MTA New York City Transit and MaBSTOA and the rail system operated by MTA Staten Island Railway; \$5,324 relates to ongoing repairs of, and replacements to, the commuter system operated by MTA Long Island Rail Road and MTA Metro-North Railroad; \$7,652 relates to the expansion of existing rail networks for both the transit and commuter systems to be managed by MTA Capital Construction; \$243 relates to Planning and Customer Service; \$376 relates to MTA Bus Company initiatives; and \$2,936 in capital expenditures for ongoing repairs of, and replacements to, MTA Bridges and Tunnels facilities.

The combined funding sources for the revised 2015–2019 MTA Capital Programs and the 2015-2019 MTA Bridges and Tunnels Capital Program, include \$7,968 in MTA Bonds, \$2,936 in MTA Bridges and Tunnels dedicated funds, \$8,640 in funding from the State of New York, \$7,308 in Federal Funds, \$2,667 from City Capital Funds, \$2,145 in pay-as-you-go ("PAYGO") capital, \$1,017 from asset sale/leases, and \$592 from Other Sources.

2010-2014 Capital Program — Capital programs covering the years 2010-2014 for: (1) the commuter railroad operations of the MTA conducted by MTA Long Island Rail Road and MTA Metro-North Railroad (the "2010–2014 Commuter Capital Program"), (2) the transit system operated by MTA New York City Transit and its subsidiary, MaBSTOA, the MTA Bus Company, and the rail system operated by MTA Staten Island Railway (the "2010-2014 Transit Capital Program") were originally approved by the MTA Board in September 2009. The capital programs were subsequently submitted to the CPRB in October 2009. This plan was disapproved by the CPRB, without prejudice, in December 2009 allowing the State Legislature to review funding issues in their 2010 session. The capital program for the toll bridges and tunnels operated by MTA Bridges and Tunnels (the "2010–2014 MTA Bridges and Tunnels Capital Program") was approved by the MTA Board in September 2009 and was not subject to CPRB approval. The MTA Board approved the revised plan for the Transit and Commuter systems on April 28, 2010 and CPRB approval of the five-year program of projects was obtained on June 1, 2010. The approved CPRB program fully funded only the first two years (2010 and 2011) of the plan, with a commitment to come back to CPRB with a funding proposal for the last three years for the Transit and Commuter Programs. On December 21, 2011, the MTA Board approved an amendment to the 2010-2014 Capital Program for the Transit, Commuter, and Bridges and Tunnels systems that fund the last three years of the program through a combination of self-help (efficiency improvements and real estate initiatives), participation by our funding partners, and innovative and pragmatic financing arrangements. On March 27, 2012, the CPRB deemed approved the amended 2010-2014 Capital Programs for the Transit and Commuter systems as submitted.

On December 19, 2012, the MTA Board approved an amendment to the 2010-2014 Capital Programs for the Transit, Commuter, and Bridges and Tunnels systems to add projects for the repair/restoration of MTA agency assets damaged as a result of Superstorm Sandy, which struck the region on October 29, 2012. On January 22, 2013, the CPRB deemed approved the amended 2010-2014 Capital Programs for the Transit and Commuter systems as submitted. On July 22, 2013, the MTA Board approved a further amendment to the 2010-2014 Capital Programs for the Transit, Commuter, and Bridges and Tunnels systems to include specific revisions to planned projects and to include new resilience/mitigation initiatives in response to Superstorm Sandy. On August 27, 2013, the CPRB deemed approved those amended 2010-2014 Capital Programs for the Transit and Commuter systems as submitted. On July 28, 2014, the MTA Board approved an amendment to select elements of the Disaster Recovery (Sandy) and MTA New York City Transit portions of the 2010-2014 Capital Programs, and a change in the funding plan. On September 3, 2014, the CPRB deemed approved the amended 2010-2014 Capital Programs for the Transit and Commuter systems as submitted.

In May 2017, the MTA Board approved an amendment to the 2010-2014 Capital Programs to reflect scope transfers and consolidation between the approved capital programs, and to reflect reductions to the MTA Superstorm Sandy capital projects to match current funding assumptions. This amendment, which provided \$29,237 in capital expenditures for the Transit and Commuter systems, was deemed approved by the CPRB as submitted on July 31, 2017. The amended 2010-2014 MTA Bridges and Tunnels Capital Program, which provided \$2,784 in capital expenditures, was not subject to CPRB approval. By September 30, 2019, the 2010-2014 MTA Capital Programs reflected an overall decrease of \$381 primarily due to reallocation of funds within the East Side Access and Regional Investment programs. Of the \$31,640 in capital expenditures, \$11,365 relates to ongoing repairs of, and replacements to, the transit system operated by MTA New York City Transit and MaBSTOA and the rail system operated by MTA Staten Island Railway; \$3,925 relates to ongoing repairs of, and replacements to, the commuter system operated by MTA Long Island Rail Road and MTA Metro-North Railroad; \$5,920 relates to the expansion of existing rail networks for both the transit and commuter systems to be managed by MTA Capital Construction; \$337 relates to a multi-faceted security program including MTA Police Department; \$223 relates to MTA Interagency; \$297 relates to MTA Bus Company initiatives; \$2,022 relates to the ongoing repairs of, and replacements to, MTA Bridges and Tunnels facilities; and \$7,551 relates to Superstorm Sandy recovery/mitigation capital expenditures.

The combined funding sources for the CPRB-approved 2010–2014 MTA Capital Programs and 2010–2014 MTA Bridges and Tunnels Capital Program include \$11,483 in MTA Bonds, \$2,025 in MTA Bridges and Tunnels dedicated funds, \$7,594 in Federal Funds, \$132 in MTA Bus Federal and City Match, \$719 from City Capital Funds, and \$1,365 from other sources. Also included is \$770 in State Assistance funds added to re-establish a traditional funding partnership. The funding strategy for Superstorm Sandy repair and restoration assumes the receipt of \$6,329 in insurance and federal reimbursement proceeds (including interim



borrowing by MTA to cover delays in the receipt of such proceeds), \$235 in pay-as-you-go capital, supplemented, to the extent necessary, by external borrowing of up to \$988 in additional MTA and MTA Bridges and Tunnels bonds.

2005-2009 Capital Program — Capital programs covering the years 2005-2009 for: (1) the commuter railroad operations of the MTA conducted by MTA Long Island Rail Road and MTA Metro-North Railroad (the "2005–2009 Commuter Capital Program"), (2) the transit system operated by MTA New York City Transit and its subsidiary, MaBSTOA, the MTA Bus Company, and the rail system operated by MTA Staten Island Railway (the "2005–2009 Transit Capital Program") were originally approved by the MTA Board in April 2005 and subsequently by the CPRB in July 2005. The capital program for the toll bridges and tunnels operated by MTA Bridges and Tunnels (the "2005–2009 MTA Bridges and Tunnels Capital Program") was approved by the MTA Board in April 2005 and was not subject to CPRB approval. The 2005–2009 amended Commuter Capital Program and the 2005–2009 Transit Capital program (collectively, the "2005–2009 MTA Capital Programs") were last amended by the MTA Board in July 2008. This latest 2005-2009 MTA Capital Program amendment was resubmitted to the CPRB for approval in July 2008, and was approved in August 2009.

As last amended by the MTA Board, the 2005–2009 MTA Capital Programs and the 2005–2009 MTA Bridges and Tunnels Capital Program, provided for \$23,717 in capital expenditures. By September 30, 2019, the 2005-2009 MTA Capital Programs budget increased by \$692 primarily due to the receipt of new American Recovery and Reinvestment Act ("ARRA") funds and additional New York City Capital funds for MTA Capital Construction work still underway. Of the \$24,409 now provided in capital expenditures, \$11,516 relates to ongoing repairs of, and replacements to the transit system operated by MTA New York City Transit and MaBSTOA and the rail system operated by MTA Staten Island Railway; \$3,727 relates to ongoing repairs of, and replacements to, the commuter system operated by MTA Long Island Rail Road and MTA Metro-North Railroad; \$166 relates to certain interagency projects; \$7,721 relates generally to the expansion of existing rail networks for both the transit and commuter systems to be managed by the MTA Capital Construction Company (including the East Side Access, Second Avenue Subway and No.7 subway line) and a security program throughout MTA's transit network; \$1,127 relates to the ongoing repairs of, and replacements to, bridge and tunnel facilities operated by MTA Bridges and Tunnels; and \$152 relates to capital projects for the MTA Bus.

The combined funding sources for the MTA Board-approved 2005–2009 MTA Capital Programs and 2005–2009 MTA Bridges and Tunnels Capital Program include \$11,006 in MTA and MTA Bridges and Tunnels Bonds (including funds for LaGuardia Airport initiative), \$1,450 in New York State general obligation bonds approved by the voters in the November 2005 election, \$7,827 in Federal Funds, \$2,838 in City Capital Funds, and \$1,288 from other sources.

#### **CURRENTLY KNOWN FACTS, DECISIONS, OR CONDITIONS**

#### The 2020-2024 MTA Capital Plan

On September 25, 2019, the MTA Board approved a \$51.5 billion 2020-2024 Capital Plan ("2020-2024 Capital Plan" or "Plan"). If approved by the MTA Capital Program Review Board ("CPRB"), the Plan would authorize new capital spending for the region's subways, buses and railroads, building on the progress of the Subway Action Plan, and create a faster, more accessible, and more reliable public transportation system.

The plan proposes to invest: (1) \$40.8 billion in MTA New York City Transit's subway and bus equipment and infrastructure, (2) \$5.7 billion for MTA Long Island Rail Road track upgrades, station accessibility, rolling stock, and signals and switches, (3) \$4.7 billion for MTA Metro-North Railroad station improvements, including accessibility, and rolling stock, and (4) \$0.3 billion in other capital projects.

#### The 2019 MTA July Financial Plan

The 2019 MTA July Financial Plan (the "July Plan" or "Plan"), which includes the 2019 Mid-Year Forecast, the 2020 Preliminary Budget and a Financial Plan for the years 2020-2023, updates the February Financial Plan. The July Plan includes projected biennial fare and toll increases that generate a 4% net increase in farebox and toll revenue, maintains investments from prior plans, including maintenance of the Subway Action Plan funded from Phase 1 of Congestion Pricing through for-hire vehicle fees, and places a renewed emphasis on gaining control of, and reducing, fare evasion.

The July Plan also includes major deficit reduction actions intended to address annual deficits and place the MTA on a financially sustainable foundation consisting of annual recurring savings targets of \$350, beginning in 2020, which do not compromise employee or customer safety and security, and additional savings targets from consolidation and efficiency efforts through the transformation of the MTA. To bridge the transition period until the transformation efforts fully produce the expected cost savings, the July Plan uses several "one-shot" actions to balance the budget.

The MTA 2019 Adopted Budget and February Financial Plan 2019-2022 (collectively, the "February Plan") was released in February 2019. The purpose of the February Plan was to incorporate adjustments approved by the MTA Board that were captured "below-the-line" and on a consolidated basis in the November Plan into MTA agencies' financial plan baseline budgets and forecasts. The February Plan also reflected certain technical adjustments to MTA and Agency forecasts and captures baseline changes that were not in the November Plan.



#### Changes to the November Plan

The February Plan also captures baseline changes that were not included in the November

Plan, as well as adjustments to below-the-line items:

- *Health & Welfare Premium Adjustment* 2019 premiums for the New York State Health Insurance Program ("NYSHIP"), which covers about 40% of MTA employees and retirees, are lower than estimates used in the November Plan. The lower premiums are estimated to reduce expenses by \$57 in 2019, and about \$6 annually thereafter.
- Insurance Policy Renewal Cost Adjustments Lower than forecasted renewal costs for excess liability, environmental liability, stations liability and force account liability policies with estimated savings of \$8 annually through 2020 and \$9 annually thereafter.
- Timing Adjustments/Other Baseline Re-estimates The February Plan includes timing and other minor technical adjustments impacting expenses and subsidies that have been incorporated into the baseline.
- City Subsidy for MTA Bus Reflects timing-related changes to subsidy payments from the City of New York.
- Other Subsidies Reflects lower collection of For-Hire Vehicle fees, which was delayed following the filing of a lawsuit
  and a temporary restraining order, which order was lifted at the end of January.

The following MTA Plan Adjustments remain below-the-baseline and therefore are not captured within Agency baseline forecasts:

- Fare and Toll Increase in March 2019 A \$316 annualized consolidated farebox and toll increase was assumed for implementation in March 2019, and estimated to yield 4%, for an additional \$269 in 2019, \$316 in both 2020 and 2021, and \$317 in 2022. Factoring in the MTA Bus, MTA Staten Island Railway and MTA Bridges and Tunnels adjustments, the net increase to the MTA was projected to be \$262 in 2019, \$308 in 2020, \$307 in 2021, and \$308 in 2022, unchanged from the estimate in the November Plan.
- One-Month Delay in 2019 Fare and Toll Increase The November Plan, approved in December, anticipated the MTA Board would review and approve fare and toll increases in January 2019 for implementation in March. This Plan reflects a one-month delay in approval and implementation of the 2019 fare and toll increases, resulting in an estimated \$27 reduction in 2019 revenues.
- Fare and Toll Increase in March 2021 A \$329 annualized consolidated farebox and toll increase is assumed for implementation in March 2021, and is estimated to yield 4%, for an additional \$280 in 2021 and \$329 in 2022. Factoring in the MTA Bus, MTA Staten Island Railway and MTA Bridges and Tunnels adjustments, the net increase to the MTA is projected to be \$273 in 2021 and \$320 in 2022, which is unchanged from the estimate in the November Plan.
- MTA Efficiencies Not Yet Implemented The November Plan recognized identified savings from the Agencies included in Agency baseline projections totaling \$84 in 2018, exceeding the target in that year, \$207 in 2019, \$209 in 2020, \$213 in 2021 and \$203 in 2022. Included in the total savings identified non-recurring savings of \$69 in 2018 and \$18 in 2019. Efficiencies yet to be implemented total \$123 in 2019, \$58 in 2020, \$82 in 2021 and \$86 in 2022; this is unchanged from the November Plan.
- Service Guideline Adjustments Service guidelines have been reviewed and approved by the MTA Board. They are used to maintain an appropriate level of service based upon actual ridership on a route, minimizing occurrences when buses or trains are either overcrowded or underutilized and providing a standard for maximum loads for different times of day. Following these guidelines, MTA New York City Transit first proposed in the November Plan service guideline adjustments beginning in 2020 that result in net savings of \$37 in 2020 and \$41 in 2021 and 2022, of which \$10 is for subway service and \$31 for bus; this is unchanged from the November Plan.
- Additional Savings Actions The November Plan included additional reductions and re-estimates resulting in savings beyond those captured in Agency Baseline projections. These savings programs are expected to be implemented in time for inclusion within Agency baselines in the 2019 July Financial Plan.

#### Tropical Storm Sandy Update

The total allocation of emergency relief funding from the Federal Transit Administration ("FTA") to MTA in connection with Superstorm Sandy to date is \$5.83 billion, including \$1.599 billion allocated on September 22, 2014 through a competitive resiliency program. A total of \$5.606 billion in FTA Emergency Relief Funding has been executed: seven repair/local priority resiliency grants totaling \$4.552 billion and seventeen competitive resiliency grants totaling \$1.054 billion. As of September 30, 2019, MTA has drawn down a total of \$2.424 billion in grant reimbursement for eligible operating and capital expenses. The balance of funds to be drawn down from all twenty-four grants is available to MTA for reimbursement of eligible expenses as requisitions are submitted by MTA and approved by FTA. Additional requisitions are in process. At MTA and Amtrak's request, in April 2018, FTA transferred \$13.5 of MTA's emergency relief allocation to the Federal Railroad Administration ("FRA") to



allow Amtrak to execute a portion of MTA Long Island Rail Road's Competitive Resilience scope.

MTA expects to submit grant requests for the \$206 of remaining FTA emergency relief allocation in Federal Fiscal Year 2020.

#### Labor Update

During the third quarter of 2019, no new labor agreements were reached with represented employees at MTA agencies. However, with several labor agreements having expired or having become amendable in the quarter, the MTA is in the process of collective bargaining towards new terms for a majority of MTA's unionized employees. The following describes in greater detail the status of MTA's labor relations through the end of September 2019.

MTA Long Island Rail Road – During the third quarter of 2019, MTA Long Island Rail Road had approximately 7,570 employees. Approximately 6,567 of the railroad's employees were represented by 12 different unions in 19 bargaining units. MTA Long Island Rail Road, having reached agreement with all its unions for the period from December 16, 2016 through April 16, 2019, is now in position to begin a new round of collective bargaining. Meanwhile, under the Railway Labor Act, MTA Long Island Rail Road's represented population is covered by the amendable agreements.

MTA Metro-North Railroad – In June 2019, most of the agreements settled between MTA Metro-North Railroad and its unions for the 2017-2019 round of bargaining became amendable under the Railway Labor Act. Several others had already become amendable in prior months; and during the third quarter three large unions—the Transport Workers Union of America "TWU", the Association of Commuter Rail Employees Division 1 "ACRE 1" and the International Association of Machinists "IAM"-joined the list of MTA Metro-North Railroad represented employees who will be seeking new agreement terms in the coming months. Together, these three unions cover approximately 1,900 employees, or around 34% of MTA Metro-North Railroad total represented population. With this development, approximately 86% of MTA Metro-North Railroad's 5,598 represented employees are under agreements that are now considered amendable and will be engaged with the railroad in labor negotiations to establish new terms. The sole remaining effective MTA Metro-North Railroad agreement will become amendable in the last quarter 2019.

MTA Headquarters – Labor agreements with approximately 741 MTA Police members of the Police Benevolent Association ("PBA") and approximately 27 members of the Commanding Officers Association ("COA") expired in October 2018, and negotiations to establish new terms with these MTA Police unions, covering around half of MTA Headquarters' represented population, have continued throughout the third quarter of 2019. At the same time, agreements with the other unions that represent approximately 754 employees working at MTA Headquarters continue to remain in effect.

MTA New York City Transit Authority/Manhattan and Bronx Surface Transit Operating Authority – In May 2019, labor agreements with three bargaining units of MTA New York City Transit's largest unions—the Transport Workers Union Local 100 ("TWU Local 100") and the Amalgamated Transit Union ("ATU 726" and "ATU 1056")—expired, and they remained unsettled throughout the third quarter. These agreements, together, cover approximately 38,000 employees, with TWU Local 100 alone representing more than 35,000 employees in operating titles. In July, agreements with other units of TWU Local 100 representing career and salary employees and employees in computer and telecommunications titles expired. With these developments, approximately 89% of MTA New York City Transit's represented population now have expired agreements.

MTA Bus Company – At the end of the third quarter of 2019, MTA Bus Company had 4,126 employees (full and part time), approximately 3,796 of whom are represented by three different unions (five bargaining units). The largest of these is TWU Local 100, whose members sat with their counterparts at MTA New York City Transit and MaBSTOA in the 2017-2019 round of collective bargaining and were co-parties to that agreement. As mentioned above, the second quarter saw the expiration of the agreement with TWU Local 100, including MTA Bus Company employees, and negotiations for new terms got underway. In the third quarter, MTA Bus Company's agreement with TWU Local 106 expired. Both of MTA Bus Company's other large unions, ATU Local 1179 and ATU Local 1181, will begin to look for new agreements in the final quarter of 2019 when their terms expire.

MTA Bridges and Tunnels – As of September 30, 2019, MTA Bridges and Tunnels had 1,315 employees, approximately 898 of whom were represented by three different labor unions (four bargaining units). Approximately 360 Maintainers who are members of DC 37 Local 1931 were MTA Bridges and Tunnels only represented employees who were covered by an effective labor agreement at the end of the third quarter. The recent Memorandum of Understanding between the agency and the Bridge and Tunnel Officers Benevolent Association "BTOBA" expired in September shortly after having been passed by the MTA Board in June. That agreement had covered the 88-month period beginning on May 18, 2012. In the third quarter, MTA Bridges and Tunnels continued to negotiate with DC 37 Local 1655, their agreement having expired in July 2017. The agency remained without agreement with the Superior Officers Benevolent Association, whose last agreement expired in 2012.

MTA Staten Island Railway – During the third quarter of 2019, MTA Staten Island Railway had 341 employees, approximately 317 of whom were represented by four different unions. In the third quarter, labor agreements with all the railway's unions had already expired, and new terms have not yet been reached with any of these groups.

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# CONSOLIDATED INTERIM STATEMENT OF NET POSITION AS OF SEPTEMBER 30, 2019 AND CONSOLIDATED STATEMENT OF NET POSITION AS OF DECEMBER 31, 2018

(\$ In millions)

Cash (Note 3) Unrestricted investments (Note 3)	September 30, 2019 (Unaudited) \$ 582 2,489 3,967 108	December 3 2018	31,
CURRENT ASSETS: Cash (Note 3) Unrestricted investments (Note 3)	\$ 582 2,489 3,967		
CURRENT ASSETS: Cash (Note 3) Unrestricted investments (Note 3)	2,489 3,967		
Cash (Note 3) Unrestricted investments (Note 3)	2,489 3,967		
Unrestricted investments (Note 3)	2,489 3,967		~ 4 1
	3,967	2,	541
D (N 2)			
Restricted investments (Note 3)	108	1,4	,487
Restricted investments held under capital lease obligations (Notes 3 and 8) Receivables:			4
Station maintenance, operation, and use assessments	75		119
State and regional mass transit taxes	1,281		108
Mortgage Recording Tax receivable	41		43
State and local operating assistance	150		11
Other receivable from New York City and New York State	201	,	289
Due from Build America Bonds	3	•	1
Capital project receivable from federal and state government	7		143
Other	509		463
Less allowance for doubtful accounts	(207)		(128)
Total receivables — net	2,060		,049
Materials and supplies	659		624
Prepaid expenses and other current assets (Note 2)	119		145
Total current assets	9,984	6,	,765
NON-CURRENT ASSETS:			
Capital assets (Note 6):			
Land and construction work-in-progress	20,100	18	,269
Other capital assets (net of accumulated depreciation)	55,224		,242
Unrestricted investments (Note 3)	71	,-	46
Restricted investments (Note 3)	617	:	546
Restricted investments held under capital lease obligations (Notes 3 and 8)	285		382
Other non-current receivables	33		58
Receivable from New York State	10		10
Other non-current assets	14		20
Total non-current assets	76,354	73,	,573
TOTAL ASSETS	86,338	80,	,338
DEFERRED OUTFLOWS OF RESOURCES:			
Accumulated decreases in fair value of derivative instruments (Note 7)	474		329
Loss on debt refunding (Note 7)	1,051	1,	,138
Deferred outflows related to pensions (Note 4)	1,486	1,	,397
Deferred outflows related to OPEB (Note 5)	1,521	1.4	,496
TOTAL DEFERRED OUTFLOWS OF RESOURCES	4,532		,360
TOTAL ASSETS AND DEFERRED OUTFLOWS OF RESOURCES	\$ 90,870	\$ 84,	,698
See Independent Auditors' Review Report and		(Continued	47

notes to the consolidated interim financial statements.



CONSOLIDATED INTERIM STATEMENT OF NET POSITION AS OF SEPTEMBER 30, 2019 AND CONSOLIDATED STATEMENT OF NET POSITION AS OF DECEMBER 31, 2018 (\$ In millions)

	<b>Business-Type Activities</b>			ivities
	September 2019			ember 31, 2018
	(Unaudite	<u>(b</u> :		
LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET POSITION				
CURRENT LIABILITIES:	_		_	
Accounts payable	\$	526	\$	470
Accrued expenses:		<i>(20</i> )		210
Interest		630		210
Salaries, wages and payroll taxes Vacation and sick pay benefits	1	358		327 1,020
Current portion — retirement and death benefits	1	,042 37		1,020
Current portion — estimated liability from injuries to persons (Note 10)		451		454
Capital accruals		393		737
Unearned premiums		215		264
Other Other		703		693
Total accrued expenses	3	,829		3,721
Current portion — loan payable (Note 7)		13		15
Current portion — long-term debt (Note 7)	1	,071		2,552
Current portion — obligations under capital lease (Note 8)		16		4
Current portion — pollution remediation projects (Note 12)		30		31
Derivative fuel hedge liability (Note 14)		9		12
Unearned revenues		786		804
Total current liabilities	6	,280		7,609
NON-CURRENT LIABILITIES:				
Net pension liability (Note 4)	6	,487		6,487
Estimated liability arising from injuries to persons (Note 10)	4	,006		3,800
Post employment benefits other than pensions (Note 5)	20	,335		20,335
Loan payable (Note 7)		113		104
Long-term debt (Note 7)	45	,208		39,617
Obligations under capital leases (Note 8)		431		443
Pollution remediation projects (Note 12)		110		108
Contract retainage payable		426		406
Derivative liabilities (Note 7)		484		346
Other long-term liabilities		350		376
Total non-current liabilities	77	,950		72,022
TOTAL LIABILITIES	84	,230		79,631
DEFERRED INFLOWS OF RESOURCES:				
Gain on debt refunding		21		23
Deferred Inflows related to pensions (Note 4)	1	,070		1,070
Deferred inflows related to OPEB (Note 5)		21		21
TOTAL DEFERRED INFLOWS OF RESOURCES	1	,112		1,114
NET POSITION:				
Net investment in capital assets	30	,126		30,000
Restricted for debt service		,720		454
Restricted for claims		229		206
Restricted for other purposes (Note 2)	1	,080,		1,230
Unrestricted		,627)	_	(27,937)
TOTAL NET POSITION	5	,528		3,953
TOTAL LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET POSITION	\$ 90	,870	\$	84,698
See Independent Auditors' Review Report and notes to the consolidated interim financial statements.			(Con	cluded)



# CONSOLIDATED INTERIM STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

#### NINE-MONTH PERIODS ENDED SEPTEMBER 30, 2019 AND 2018

(\$ In millions)

	Business-Ty	pe Activities
	September 30, 2019	September 30, 2018
ODED ATTRIC DELICATION	(Unaudited)	(Unaudited)
OPERATING REVENUES:	¢ 4.722	ф 4.500
Fare revenue	\$ 4,732	\$ 4,588
Vehicle toll revenue	1,548	1,471
Rents, freight, and other revenue	466	431
Total operating revenues	6,746	6,490
OPERATING EXPENSES:		
Salaries and wages	4,719	4,651
Retirement and other employee benefits	2,319	2,236
Postemployment benefits other than pensions (Note 5)	483	1,585
Electric power	338	357
Fuel	134	140
Insurance	6	(7)
Claims	302	282
Paratransit service contracts	360	332
Maintenance and other operating contracts	508	456
Professional service contracts	308	369
Pollution remediation projects (Note 12)	6	4
Materials and supplies	493	478
Depreciation (Note 2)	2,135	2,010
Other	158	159
Total operating expenses	12,269	13,052
OPERATING LOSS	(5,523)	(6,562)
NON-OPERATING REVENUES (EXPENSES):		
Grants, appropriations and taxes:		
Tax-supported subsidies — NYS:		
Mass Transportation Trust Fund subsidies	491	475
Metropolitan Mass Transportation Operating Assistance subsidies	1,824	1,687
Payroll Mobility Tax subsidies	1,446	1,304
MTA Aid Trust Account subsidies	216	227
Internet sales tax subsidies	42	-
Tax-supported subsidies — NYC and Local:		
Mortgage Recording Tax subsidies	340	327
Urban Tax subsidies	478	502
Other subsidies:		
New York State Service Contract subsidy	<del>-</del>	1
Operating Assistance - 18-B program	417	408
Build America Bond subsidy	47	47
NYS/NYC Subway Action Plan	<del>-</del>	411
NYC Assistance Fund	260	
Subtotal grants, appropriations and taxes	\$ 5,561	\$ 5,389

See Independent Auditors' Review Report and

notes to the consolidated interim financial statements.

(Continued)



# CONSOLIDATED INTERIM STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

#### NINE-MONTH PERIODS ENDED SEPTEMBER 30, 2019 AND 2018

(\$ In millions)

	<b>Business-Type Activities</b>		
	September 30, 2019	September 30, 2018	
	(Unaudited)	(Unaudited)	
NON-OPERATING REVENUES (EXPENSES):			
Connecticut Department of Transportation	\$ 90	\$ 95	
Subsidies paid to Dutchess, Orange, and Rockland Counties	(3)	` '	
Interest on long-term debt (Note 2)	(1,089)	` ' '	
Station maintenance, operation and use assessments	128	126	
Operating subsidies recoverable from NYC	424	358	
Other net non-operating expenses	106	15_	
Net non-operating revenues	5,217	4,882	
LOSS BEFORE APPROPRIATIONS, GRANTS AND OTHER RECEIPTS			
EXTERNALLY RESTRICTED FOR CAPITAL PROJECTS	(306)	(1,680)	
APPROPRIATIONS, GRANTS AND OTHER RECEIPTS			
EXTERNALLY RESTRICTED FOR CAPITAL PROJECTS	1,881	1,204	
CHANGE IN NET POSITION	1,575	(476)	
NET POSITION— Beginning of period	3,953	5,224	
NET POSITION — End of period	\$ 5,528	\$ 4,748	
See Independent Auditors' Review Report and notes to the consolidated interim financial statements.		(Concluded)	



# CONSOLIDATED INTERIM STATEMENTS OF CASH FLOWS NINE-MONTH PERIODS ENDED SEPTEMBER 30, 2019 AND 2018

(\$ In millions)

	Business-Ty	pe Activities
	September 30, 2019	September 30, 2018
CARLEL ONG ED ON ODED ATTIVIS A STANLING	(Unaudited)	(Unaudited)
CASH FLOWS FROM OPERATING ACTIVITIES:	¢ (217	¢ (005
Passenger receipts/tolls	\$ 6,317	\$ 6,085
Rents and other receipts	651	565
Payroll and related fringe benefits	(7,554)	(7,188)
Other operating expenses	(2,463)	(2,575)
Net cash used by operating activities	(3,049)	(3,113)
CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES:		
Grants, appropriations, and taxes	4,732	4,922
Operating subsidies from CDOT	80	88
Subsidies paid to Dutchess, Orange, and Rockland Counties	(8)	(8)
Net cash provided by noncapital financing activities	4,804	5,002
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES:		
MTA bond proceeds	1,606	1,353
MTA Bridges and Tunnels bond proceeds	285	1,169
MTA bonds refunded/reissued	(174)	(828)
MTA Bridges and Tunnels bonds refunded/reissued	(101)	(497)
MTA anticipation notes proceeds	4,505	2,233
MTA anticipation notes redeemed	(1,500)	(512)
MTA credit facility proceeds	1	4
Capital lease payments and terminations	(1)	(1)
Federal and local grants	1,022	1,016
Other capital financing activities	(136)	(489)
Payment for capital assets	(4,941)	(4,881)
Debt service payments	(1,134)	(1,223)
Net cash used by capital and related financing activities	(568)	(2,656)
CASH FLOWS FROM INVESTING ACTIVITIES:		
Purchase of long-term securities	(2,871)	(5,270)
Sales or maturities of long-term securities	1,847	5,132
Net (purchases) sales or maturities of short-term securities	(204)	1,056
Earnings on investments	82	74
Net cash (used by) / provided by investing activities	(1,146)	992
NET INCREASE IN CASH	41	225
CASH — Beginning of period	541_	283
CASH — End of period	\$ 582	\$ 508
See Independent Auditors' Review Report and notes to the consolidated interim financial statements.		(Continued)



# CONSOLIDATED INTERIM STATEMENTS OF CASH FLOWS NINE-MONTH PERIODS ENDED SEPTEMBER 30, 2019 AND 2018 (\$ In millions)

	<b>Business-Type Activities</b>			
		September 30,  2019  (Unaudited)		
RECONCILIATION OF OPERATING LOSS TO NET CASH USED BY	(61	idadited)	(01	naudited)
OPERATING ACTIVITIES:				
Operating loss (Note 2)	\$	(5,523)	\$	(6,562)
Adjustments to reconcile to net cash used in operating activities:		, , ,		( ) /
Depreciation and amortization		2,135		2,010
Net increase in payables, accrued expenses, and other liabilities		218		1,513
Net decrease in receivables		112		(161)
Net decrease in materials and supplies and prepaid expenses		9		87
NET CASH USED BY OPERATING ACTIVITIES	\$	(3,049)	\$	(3,113)
NONCASH INVESTING, CAPITAL AND RELATED FINANCING ACTIVITIES: Noncash investing activities:				
Interest expense includes amortization of net (premium) / discount (Note 2)	\$	139	\$	73
Interest expense which was capitalized	Ψ	29	Ψ	37
Total Noncash investing activities		168		110
Noncash capital and related financing activities:				
Capital assets related liabilities		393		449
Capital leases related liabilities		447		441
Total Noncash capital and related financing activities		840		890
TOTAL NONCASH INVESTING, CAPITAL AND RELATED				
FINANCING ACTIVITIES	\$	1,008	\$	1,000
See Independent Auditors' Review Report and				
notes to the consolidated interim financial statements.			(Co	oncluded)
			,	,



# STATEMENTS OF FIDUCIARY NET POSITION PENSION AND OTHER EMPLOYEE BENEFIT TRUST FUNDS AS OF DECEMBER 31, 2018 AND 2017

(\$ In thousands)

	Fiduciary Activities			
	Decem	December 31, 2017		
ASSETS:				
Cash	\$	21,685	\$	18,805
Receivables:				
Employee loans		196,266		183,952
Participant and union contributions		-		(6)
Investment securities sold		730		1,126
Accrued interest and dividends		4,608		3,554
Other receivables		1,937		1,843
Total receivables		203,541		190,469
Investments at fair value:				
Investments measured at readily determined fair value		1,369,063		1,247,701
Investments measured at net asset value		8,915,496		9,404,830
Investments at contract value		1,313,496		1,224,190
Total investments		11,598,055		11,876,721
Total assets	\$	11,823,281	\$	12,085,995
LIABILITIES:				
Accounts payable and accrued liabilities	\$	8,888	\$	6,823
Payable for investment securities purchased		5,359		6,735
Accrued benefits payable		1,109		2,498
Accrued postretirement death benefits (PRDB) payable		2,921		3,344
Accrued 55/25 Additional Members Contribution (AMC) payable		5,982		6,181
Other liabiliities		341		719
Total liabilities		24,600		26,300
NET POSITION:				
Restricted for pensions		7,688,670		7,922,373
Restricted for postemployment benefits other than pensions		351,380		370,352
Restricted for other employee benefits		3,758,631		3,766,970
Total net position		11,798,681		12,059,695
Total liabilities and net position	\$	11,823,281	\$	12,085,995

See Independent Auditors' Review Report and notes to the consolidated interim financial statements.



# STATEMENT OF CHANGES IN FIDUCIARY NET POSITION PENSION AND OTHER EMPLOYEE BENEFIT TRUST FUNDS FOR THE YEARS ENDED DECEMBER 31, 2018 AND 2017

(\$ In thousands)

	Fiduciary	Activities		
	<b>December 31, 2018</b>	December 31, 2017		
ADDITIONS:				
Contributions:				
Employer contributions	\$ 1,224,935	\$ 1,185,070		
Non-Employer contributions	-	145,000		
Implicit rate subsidy contribution	74,484	71,101		
Participant rollovers	21,673	22,430		
Member contributions	336,008	302,589		
Total contributions	1,657,100	1,726,190		
Investment income:				
Net (depreciation) / appreciation in fair value of investments	(464,155)	1,465,223		
Dividend income	110,573	73,632		
Interest income	19,037	13,730		
Less:				
Investment expenses	92,896	109,658		
Investment income, net	(427,441)	1,442,927		
Other additions:				
Loan repayments - interest	7,529	6,337		
Total additions	1,237,188	3,175,454		
DEDUCTIONS:				
Benefit payments and withdrawals	1,232,237	1,180,123		
Implicit rate subsidy payments	74,484	71,101		
Transfer to other plans	93,387	67,653		
Distribution to participants	87,379	73,733		
Administrative expenses	5,305	6,455		
Other deductions	5,410_	4,895		
Total deductions	1,498,202	1,403,960		
Net (decrease) / increase in fiduciary net position	(261,014)	1,771,494		
NET POSITION:				
Restricted for Benefits:				
Beginning of year	12,059,695	10,288,201		
End of year	<u>\$ 11,798,681</u>	\$ 12,059,695		

See Independent Auditors' Review Report and notes to the consolidated interim financial statements.



NOTES TO CONSOLIDATED INTERIM FINANCIAL STATEMENTS AS OF SEPTEMBER 30, 2019 AND DECEMBER 31, 2018 AND FOR THE NINE-MONTH PERIODS ENDED SEPTEMBER 30, 2019 AND 2018

(\$ In millions, except as noted)

#### 1. BASIS OF PRESENTATION

**Reporting Entity** — The Metropolitan Transportation Authority ("MTA") was established in 1965, under Section 1263 of the New York Public Authorities Law, and is a public benefit corporation and a component unit of the State of New York ("NYS") whose mission is to continue, develop and improve public transportation and to develop and implement a unified public transportation policy in the New York metropolitan area.

These consolidated interim financial statements are of the Metropolitan Transportation Authority ("MTA"), including its related groups (collectively, the "MTA Group"), which are listed below. The Business-Type activities in these consolidated interim financial statements purport the operations of the MTA Group.

#### Metropolitan Transportation Authority and Related Groups (Component Units)

- Metropolitan Transportation Authority Headquarters ("MTAHQ") provides support in budget, cash management, finance, legal, real estate, treasury, risk and insurance management, and other services to the related groups listed below.
- The Long Island Rail Road Company ("MTA Long Island Rail Road") provides passenger transportation between New York City ("NYC") and Long Island.
- Metro-North Commuter Railroad Company ("MTA Metro-North Railroad") provides passenger transportation between NYC and the suburban communities in Westchester, Dutchess, Putnam, Orange, and Rockland counties in NYS and New Haven and Fairfield counties in Connecticut.
- Staten Island Rapid Transit Operating Authority ("MTA Staten Island Railway") provides passenger transportation on Staten Island.
- First Mutual Transportation Assurance Company ("FMTAC") provides primary insurance coverage for certain losses, some of which are reinsured, and assumes reinsurance coverage for certain other losses.
- MTA Capital Construction Company ("MTA Capital Construction") provides oversight for the planning, design and construction of current and future major MTA system-wide expansion projects.
- MTA Bus Company ("MTA Bus") operates certain bus routes in areas previously served by private bus operators pursuant to franchises granted by the City of New York.
- MTAHQ, MTA Long Island Rail Road, MTA Metro-North Railroad, MTA Staten Island Railway, FMTAC, MTA Capital
  Construction, and MTA Bus, collectively are referred to herein as MTA. MTA Long Island Rail Road and MTA MetroNorth Railroad are referred to collectively as the Commuter Railroads.
- New York City Transit Authority ("MTA New York City Transit") and its subsidiary, Manhattan and Bronx Surface
  Transit Operating Authority ("MaBSTOA"), provide subway and public bus service within the five boroughs of New
  York City.
- Triborough Bridge and Tunnel Authority ("MTA Bridges and Tunnels") operates seven toll bridges, two tunnels, and the Battery Parking Garage, all within the five boroughs of New York City.

The subsidiaries and affiliates, considered component units of the MTA, are operationally and legally independent of the MTA. These related groups enjoy certain rights typically associated with separate legal status including, in some cases, the ability to issue debt. However, they are included in the MTA's consolidated interim financial statements as blended component units because of the MTA's financial accountability for these entities and they are under the direction of the MTA Board (a reference to "MTA Board" means the board of MTAHQ and/or the boards of the other MTA Group entities that apply in the specific context, all of which are comprised of the same persons). Under accounting principles generally accepted in the United States of America ("GAAP"), the MTA is required to include these related groups in its financial statements. While certain units are separate legal entities, they do have legal capital requirements and the revenues of all of the related groups of the MTA are used to support the organizations as a whole. The components do not constitute a separate accounting entity (fund) since there is no legal requirement to account for the activities of the components as discrete accounting entities. Therefore, the MTA financial statements are presented on a consolidated basis with segment disclosure for each distinct operating activity. All of the component units publish separate annual financial statements, which are available by writing to the MTA Comptroller, 2 Broadway, 16th Floor, New York, New York 10004.



Although the MTA Group collects fares for the transit and commuter service, they provide and receive revenues from other sources, such as the leasing out of real property assets, and the licensing of advertising. Such revenues, including forecast-increased revenues from fare increases, are not sufficient to cover all operating expenses associated with such services. Therefore, to maintain a balanced budget, the members of the MTA Group providing transit and commuter service rely on operating surpluses transferred from MTA Bridges and Tunnels, operating subsidies provided by NYS and certain local governmental entities in the MTA commuter district, and service reimbursements from certain local governmental entities in the MTA commuter district and from the State of Connecticut. Non-operating subsidies to the MTA Group for transit and commuter service for the period ended September 30, 2019 and 2018 totaled \$5.6 billion and \$5.4 billion, respectively.

**Basis of Presentation - Fiduciary Funds** – The fiduciary fund financial statements provide information about the funds that are used to report resources held in trust for retirees and beneficiaries covered by pension plans and other employee benefit trust funds of the MTA. Separate financial statements are presented for the fiduciary funds.

The following MTA fiduciary component units comprise the fiduciary activities of the MTA and are categorized within Pension and Other Employee Benefit Trust Funds.

#### • Pension Trust Funds

- MTA Defined Benefit Plan
- The Long Island Railroad Company Plan for Additional Pensions ("Additional Plan")
- Manhattan and Bronx Surface Transit Operating Authority ("MaBSTOA Plan")
- Metro-North Commuter Railroad Company Cash Balance Plan ("MNR Cash Balance Plan")
- Other Employee Benefit Trust Funds
  - MTA Other Postemployment Benefits Plan ("OPEB" Plan)
  - Thrift Plan for Employees of the MTA, its Subsidiaries and Affiliates ("401(k) Plan")

These fiduciary statements of the fiduciary funds are prepared using the accrual basis of accounting and a measurement focus on the periodic determination of additions, deductions, and net position restricted for benefits.

#### 2. SIGNIFICANT ACCOUNTING POLICIES

**Basis of Accounting** — The accompanying consolidated interim financial statements are prepared on the accrual basis of accounting in accordance with accounting principles generally accepted in the United States of America.

The MTA applies Governmental Accounting Standards Board ("GASB") Codification of Governmental Accounting and Financial Reporting Standards ("GASB Codification") Section P80, Proprietary Accounting and Financial Reporting.

New Accounting Standards – The MTA adopted the following GASB Statements for the period ended September 30, 2019.

GASB Statement No. 83, Certain Asset Retirement Obligations establishes accounting and financial reporting standards for certain asset retirement obligations ("AROs"). An ARO is a legally enforceable liability associated with the retirement of a tangible capital asset that is permanently removed from service. This Statement requires that a liability must be recognized when incurred and reasonably estimated. The determination of when a liability is incurred should be based on the occurrence of external laws, regulations, contracts, or court judgments, together with the occurrence of an internal event that obligates a government to perform asset retirement activities. The requirements of this Statement are effective for reporting periods beginning after June 15, 2018. The adoption of this Statement had no material impact on the MTA's financial statements.

GASB Statement No. 84, Fiduciary Activities, improves guidance regarding the identification of fiduciary activities for accounting and financial reporting purposes and how those activities should be reported. The requirements of GASB Statement No. 84 are effective for reporting periods beginning after December 15, 2018. In adopting this Statement, MTA evaluated which Pension Funds and Other Employee Benefit Trust Funds met the criteria as a fiduciary component unit. The financial information of those fiduciary funds are included within the fiduciary fund financial statements and supplementary information presented within these financial statements.

GASB Statement No. 88, "Certain Disclosures Related to Debt, including Direct Borrowings and Direct Placements", requires that additional information be disclosed in the notes to financial statements related to direct borrowings and direct placements. It also clarifies which liabilities should be included when disclosing information related to debt. The Statement requires that additional information related to debt be disclosed in the notes to the financial statements, including unused lines of credit; assets pledged as collateral for the debt; and terms specified in debt agreements related to significant events of default with finance-related consequences; significant termination events with finance-related consequences; and significant subjective acceleration clauses. GASB Statement No. 88 is effective for reporting periods beginning after June 15, 2018.



The adoption of this Statement did not have a material impact to MTA's note disclosures.

GASB Statement No. 90, "Majority Equity Interest- an Amendment of GASB Statements No. 14 and No. 61", improves consistency in the measurement and comparability of the financial statement presentation of majority equity interests in legally separate organizations and improves the relevance of financial statement information for certain component units. The Statement defines a majority equity interest and specifies that a majority equity interest in a legally separate organization should be reported as an investment if a government's holding of the equity interest meets the definition of an investment. The Statement also establishes that ownership of a majority equity interest in a legally separate organization results in the government being financially accountable for the legally separate organization and, therefore, the government should report that organization as a component unit. In addition, the Statement also requires that a component unit in which a government has a 100 percent equity interest account for its assets, deferred outflows of resources, liabilities and deferred inflows of resources at acquisition value. GASB Statement No. 90 is effective for reporting periods beginning after December 15, 2018. The adoption of this Statement did not have a material impact to the MTA's financial statements.

### Accounting Standards Issued but Not Yet Adopted

GASB has issued the following pronouncements that may affect the future financial position, results of operations, cash flows, or financial presentation of the MTA upon implementation. Management has not yet evaluated the effect of implementation of these standards.

GASB Statement No.	GASB Accounting Standard	Year of Adoption
87	Leases	2020
89	Accounting for Interest Cost Incurred Before the End of a Construction Period	2020
91	Conduit Debt Obligations 2021	2021
92	Omnibus 2020	2021

Use of Management Estimates — The preparation of the consolidated interim financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, and disclosure of contingent assets and liabilities at the date of the consolidated interim financial statements, and the reported amounts of revenues and expenses during the reporting period. Significant estimates include the fair value of investments, allowances for doubtful accounts, valuation of derivative instruments, arbitrage rebate liability, accrued expenses and other liabilities, depreciable lives of capital assets, estimated liability arising from injuries to persons, pension benefits and other postemployment benefits. Actual results could differ significantly from those estimates.

**Principles of Consolidation** — The consolidated interim financial statements consist of MTAHQ, MTA Long Island Rail Road, MTA Metro-North Railroad, MTA Staten Island Railway, FMTAC, MTA Bus, MTA Capital Construction, MTA New York City Transit (including its subsidiary MaBSTOA), and MTA Bridges and Tunnels for years presented in the financial statements. All related group transactions have been eliminated for consolidation purposes.

**Net Position – Restricted for Other Purposes** – This category is classified within net position and includes net investments restricted for capital leases and MTA Bridges and Tunnels necessary reconstruction reserve.

**Investments** — The MTA Group's investment policies comply with the New York State Comptroller's guidelines for such operating and capital policies. Those policies permit investments in, among others, obligations of the U.S. Treasury, its agencies and instrumentalities, and repurchase agreements secured by such obligations. FMTAC's investment policies comply with New York State Comptroller guidelines and New York State Department of Insurance guidelines.

Investments expected to be utilized within a year of September 30th have been classified as current assets in the consolidated interim financial statements.

In accordance with the provisions of GASB Statement No. 72, *Fair Value Measurement and Application*, investments are recorded on the consolidated statement of net position at fair value, except for commercial paper, certificates of deposit, and repurchase agreements, which are recorded at amortized cost or contract value. All investment income, including changes in the fair value of investments, is reported as revenue on the consolidated statement of revenues, expenses and changes in net position. Fair values have been determined using quoted market values at September 30, 2019 and December 31, 2018.

Investment derivative contracts are reported at fair value using the income approach.



**Materials and Supplies** — Materials and supplies are valued principally at average cost, net of obsolescence reserve at September 30, 2019 and December 31, 2018 of \$181 and \$171, respectively.

**Prepaid Expenses and Other Current Assets** — Prepaid expenses and other current assets reflect advance payment of insurance premiums as well as farecard media related with ticket machines, WebTickets and AirTrain tickets.

Capital Assets — Properties and equipment are carried at cost and are depreciated on a straight-line basis over their estimated useful lives. Expenses for maintenance and repairs are charged to operations as incurred. Capital assets and improvements include all land, buildings, equipment, and infrastructure of the MTA having a minimum useful life of two years and having a cost of more than \$25 thousand. Capital assets are stated at historical cost, or at estimated historical cost based on appraisals, or on other acceptable methods when historical cost is not available. Capital leases are classified as capital assets in amounts equal to the lesser of the fair market value or the present value of net minimum lease payments at the inception of the lease. Accumulated depreciation and amortization are reported as reductions of capital assets. Depreciation is computed using the straight-line method based upon estimated useful lives of 25 to 50 years for buildings, 2 to 40 years for equipment, and 25 to 100 years for infrastructure. Capital lease assets and leasehold improvements are amortized over the term of the lease or the life of the asset whichever is less.

Pollution remediation projects —Pollution remediation costs have been expensed in accordance with the provisions of GASB Statement No. 49, Accounting and Financial Reporting for Pollution Remediation Obligations (See Note 12). An operating expense provision and corresponding liability measured at current value using the expected cash flow method has been recognized for certain pollution remediation obligations, which previously may not have been required to be recognized, have been recognized earlier than in the past or are no longer able to be capitalized as a component of a capital project. Pollution remediation obligations occur when any one of the following obligating events takes place: the MTA is in violation of a pollution prevention-related permit or license; an imminent threat to public health due to pollution exists; the MTA is named by a regulator as a responsible or potentially responsible party to participate in remediation; the MTA voluntarily commences or legally obligates itself to commence remediation efforts; or the MTA is named or there is evidence to indicate that it will be named in a lawsuit that compels participation in remediation activities.

**Operating Revenues** — Passenger Revenue and Tolls — Revenues from the sale of tickets, tokens, electronic toll collection system, and farecards are recognized as income when tickets or farecards are used. Tickets are assumed to be used in the month of purchase, with the exception of advance purchases of monthly and weekly tickets. When the farecards expire, revenue is recorded for the unused value of the farecards.

MTA Bridges and Tunnel has two toll rebate programs at the Verrazano-Narrows Bridge: the Staten Island Resident ("SIR") Rebate Program, available for residents of Staten Island participating in the SIR E-ZPass toll discount plan, and the Verrazano-Narrows Bridge Commercial Rebate Program ("VNB Commercial Rebate Program"), available for commercial vehicles making more than ten trips per month using the same New York Customer Service Center ("NYCSC") E-ZPass account. The VNB Commercial Rebate Program and SIR Rebate Program are funded by the State and MTA.

Capital Financing — The MTA has ongoing programs on behalf of its subsidiaries and affiliates, subject to approval by the New York State Metropolitan Transportation Authority Capital Program Review Board (the "State Review Board"), which are intended to improve public transportation in the New York Metropolitan area.

The federal government has a contingent equity interest in assets acquired by the MTA with federal funds and upon disposal of such assets, the federal government may have a right to its share of the proceeds from the sale. This provision has not been a substantial impediment to the MTA's operations.

### **Non-operating Revenues**

Operating Assistance — The MTA Group receives, subject to annual appropriation, NYS operating assistance funds that are recognized as revenue after the NYS budget is approved and adopted. Generally, funds received under the NYS operating assistance program are fully matched by contributions from NYC and the seven other counties within the MTA's service area.

Mortgage Recording Taxes ("MRT") — Under NYS law, the MTA receives capital and operating assistance through a Mortgage Recording Tax ("MRT-1"). MRT-1 is collected by NYC and the seven other counties within the MTA's service area, at the rate of 0.25% of the debt secured by certain real estate mortgages. Effective September 2005, the rate was increased from 25 cents per 100 dollars of recorded mortgage to 30 cents per 100 dollars of recorded mortgage. The MTA also receives an additional Mortgage Recording Tax ("MRT-2") of 0.25% of certain mortgages secured by real estate improved or to be improved by structures containing one to nine dwelling units in the MTA's service area. MRT-1 and MRT-2 taxes are recognized as revenue based upon reported amounts of taxes collected.



- MRT-1 proceeds are initially used to pay MTAHQ's operating expenses. Remaining funds, if any, are allocated 55% to certain transit operations and 45% to the commuter railroads operations. The commuter railroad portion is first used to fund the NYS Suburban Highway Transportation Fund in an amount not to exceed \$20 annually (subject to the monies being returned under the conditions set forth in the governing statute if the Commuter Railroads are operating at a deficit).
- The first \$5 of the MRT-2 proceeds is transferred to the MTA Dutchess, Orange, and Rockland ("DOR") Fund (\$1.5 each for Dutchess and Orange Counties and \$2 for Rockland County). Additionally, the MTA must transfer to each County's fund an amount equal to the product of (i) the percentage by which each respective County's mortgage recording tax payments (both MRT-1 and MRT-2) to the MTA increased over such payments in 1989 and (ii) the base amount received by each county as described above. The counties do not receive any portion of the September 1, 2005 increase in MRT-1 from 25 cents per \$100 of recorded mortgage to 30 cents. As of September 30, 2019, the MTA paid to Dutchess, Orange and Rockland Counties the 2018 excess amounts of MRT-1 and MRT-2 totaling \$4.4.
- In addition, MTA New York City Transit receives operating assistance directly from NYC through a mortgage recording tax at the rate of 0.625% of the debt secured by certain real estate mortgages and through a property transfer tax at the rate of one percent of the assessed value (collectively referred to as "Urban Tax Subsidies") of certain properties.

Mobility Tax — In June of 2009, Chapter 25 of the NYS Laws of 2009 added Article 23, which establishes the Metropolitan Commuter Transportation Mobility Tax ("MCTMT"). The proceeds of this tax, administered by the New York State Tax Department, are to be distributed to the Metropolitan Transportation Authority. This tax is imposed on certain employers and self-employed individuals engaging in business within the metropolitan commuter transportation district which includes New York City, and the counties of Rockland, Nassau, Suffolk, Orange, Putnam, Dutchess, and Westchester. This Tax is imposed on certain employers that have payroll expenses within the Metropolitan Commuter Transportation District, to pay at a rate of 0.34% of an employer's payroll expenses for all covered employees for each calendar quarter. The employer is prohibited from deducting from wages or compensation of an employee any amount that represents all or any portion of the MCTMT. The effective date of this tax was March 1, 2009 for employers other than public school district; September 1, 2009 for Public school districts and January 1, 2009 for individuals.

Supplemental Aid — In 2009, several amendments to the existing tax law provided the MTA supplemental revenues to be deposited into the AID Trust Account of the Metropolitan Transportation Authority Financial Assistance Fund established pursuant to Section 92 of the State Finance law. These supplemental revenues relate to: 1) supplemental learner permit/license fee in the Metropolitan Commuter Transportation District, 2) supplemental registration fee, 3) supplemental tax on every taxicab owner per taxicab ride on every ride that originated in the City of New York and terminates anywhere within the territorial boundaries of the Metropolitan Commuter Transportation District, and 4) supplemental tax on passenger car rental. This Supplemental Aid Tax is provided to the MTA in conjunction with the Mobility Tax.

Dedicated Taxes — Under NYS law, subject to annual appropriation, the MTA receives operating assistance through a portion of the Dedicated Mass Transportation Trust Fund ("MTTF") and Metropolitan Mass Transportation Operating Assistance Fund ("MMTOA"). The MTTF receipts consist of a portion of the revenues derived from certain business privilege taxes imposed by the State on petroleum businesses, a portion of the motor fuel tax on gasoline and diesel fuel, and a portion of certain motor vehicle fees, including registration and non-registration fees. Effective October 1, 2005, the State increased the amount of motor vehicle fees deposited into the MTTF for the benefit of the MTA. MTTF receipts are applied first to meet certain debt service requirements or obligations and second to the Transit System (defined as MTA New York City Transit and MaBSTOA), MTA Staten Island Railway and the Commuter Railroads to pay operating and capital costs. The MMTOA receipts are comprised of 0.375% regional sales tax, regional franchise tax surcharge, a portion of taxes on certain transportation and transmission companies, and an additional portion of the business privilege tax imposed on petroleum businesses. MMTOA receipts, to the extent that MTTF receipts are not sufficient to meet debt service requirements, will also be applied to certain debt service obligations, and secondly to operating and capital costs of the Transit System, and the Commuter Railroads.

The State Legislature enacts in an annual budget bill for each state fiscal year an appropriation to the MTA Dedicated Tax Fund for the then-current state fiscal year and an appropriation of the amounts projected by the Director of the Budget of the State to be deposited in the MTA Dedicated Tax Fund for the next succeeding state fiscal year. The assistance deposited into the MTTF is required by law to be allocated, after provision for debt service on Dedicated Tax Fund Bonds (See Note 7), 85% to certain transit operations (not including MTA Bus) and 15% to the commuter railroads operations. Revenues from this funding source are recognized based upon amounts of tax reported as collected by NYS, to the extent of the appropriation.



Build America Bond Subsidy — The MTA is receiving cash subsidy payments from the United States Treasury equal to 35% of the interest payable on the Series of Bonds issued as "Build America Bonds" and authorized by the Recovery Act. The Internal Revenue Code of 1986 imposes requirements that MTA must meet and continue to meet after the issuance in order to receive the cash subsidy payments. The interest on these bonds is fully subject to Federal income taxation to the bondholder.

Congestion Zone Surcharges – In April 2018, the approved 2018-2019 New York State Budget enacted legislation that provided additional sources of revenue, in the form of surcharges and fines, as defined by Article 29-C, Chapter 59 of the Tax Law, to address the financial needs of the MTA. Beginning on January 1, 2019, the legislation imposed the following:

- A surcharge of \$2.75 on for-hire transportation trips provided by motor vehicles carrying passengers for hire (or \$2.50 in the case of taxicabs that are subject to the \$0.50 cents tax on hailed trips that are part of the MTA Aid Trust Account Receipts), other than pool vehicles, ambulance and buses, on each trip that (1) originates and terminates south of and excluding 96th Street in the City of New York, in the Borough of Manhattan (the "Congestion Zone"), (2) originates anywhere in NYS and terminates within the Congestion Zone, (3) originates in the Congestion Zone and terminates anywhere in NYS, or (4) originates anywhere in NYS, enters into the Congestion Zone while in transit, and terminates anywhere in NYS.
- A surcharge of \$0.75 cents for each person who both enters and exits a pool vehicle in NYS and who is picked up in, dropped off in, or travels through the Congestion Zone.

The Congestion Zone Surcharges do not apply to transportation services administered by or on behalf of MTA, including paratransit services.

The April 2018 legislation also created the New York City Transportation Assistance Fund, held by MTA. The fund consists of the three sub-accounts, the Subway Action Plan Account, the Outer Borough Transportation Account and the General Transportation Account.

- Subway Action Plan Account Funds in this account may be used exclusively for funding the operating and capital costs, and debt service associated, with the Subway Action Plan.
- Outer Borough Transportation Account Funds in this account may be used exclusively for funding (1) the operating and capital costs of, and debt service associated with, the MTA facilities, equipment and services in the counties of Bronx, Kings, Queens and Richmond, and any projects improving transportation connections from such counties to Manhattan, or (2) a toll reduction program for any crossing under the jurisdiction of MTA or MTA Bridges and Tunnels.
- General Transportation Account Funds in this account may be used exclusively for funding the operating and capital
  costs of MTA. In each case, funds may be used for various operations and capital needs or for debt service and reserve
  requirements.

NYS/NYC Subway Action Plan — In April 2018, the approved 2018-2019 New York State Budget committed both New York State ("NYS") and New York City ("NYC") to equally cover the costs of the 2017-2018 Subway Action Plan ("SAP"), which was launched at the direction of Governor Andrew Cuomo in July 2017 to take extraordinary measures to stabilize and improve the more than 100-year old New York City subway system. The SAP includes a comprehensive \$836 investment to address system failures, breakdowns, delays and deteriorating customer service, and position the New York City subway system for future modernization. The SAP provided the MTA with funds already used to advance the SAP, as well as additional operating and capital funding to cover the cost of the remaining SAP through the end of 2018. The MTA started receiving the SAP funding in April 2018 and received the full funding by the end of 2018. For the year-end December 31, 2018, the MTA received \$508 related to operating needs and \$189 related to capital needs for the Subway Action Plan. In 2019, the MTA will be using the remaining Subway Action Plan funds from New York State and New York City primarily for the signals modernization capital project.

Dedicated Revenues - In April 2019, the approved 2019-2020 New York State Budget enacted legislation that included new, dedicated revenue streams for the MTA. The additional sources of revenue include a Central Business District Tolling Program, which has an implementation date of December 31, 2020. The Central Business District Tolling Program will assess a toll for vehicles entering the Central Business District, defined as south of 60th Street in Manhattan, but will exclude vehicles traveling on the FDR Drive or the West Side Highway, which includes the Battery Park underpass and or any surface roadway portion of the Hugh L. Carey Tunnel that connects to West Street.



The enacted State Budget also included provisions for a new Real Property Transfer Tax Surcharge (referred to as the "Mansion Tax") on high-priced residential property sales in New York City and an Internet Marketplace Sales Tax. The Mansion Tax went into effect on July 1, 2019 and increases the transfer tax on a sliding scale by a quarter percent starting at \$2, with a combined top rate of 4.15%, on the sale of New York City residential properties valued at \$25 or above. The Internet Marketplace Sales Tax went into effect on June 1, 2019 and requires internet marketplace providers to collect and remit sales tax from out of state retailers on their sites that have gross receipts exceeding \$300,000 (dollars) and delivering more than one hundred sales into New York State in the previous four quarters. The sales tax will be collected at the normal rate of 4% plus local sales tax.

The proceeds from the Central Business District Tolling Program, the Internet Marketplace Sales Tax and the Real Property Transfer Tax Surcharge will be deposited into the MTA's Central Business District Tolling Program capital lock box and may only be used to support financing of the 2020-2024 Capital Program.

Operating Subsidies Recoverable from Connecticut Department of Transportation ("CDOT") — A portion of the deficit from operations relating to MTA Metro-North Railroad's New Haven line is recoverable from CDOT. Under the terms of a renewed Service Agreement, which began on January 1, 2015, and the 1998 resolution of an arbitration proceeding initiated by the State of Connecticut, CDOT pays 100.0% of the net operating deficit of MTA Metro-North Railroad's branch lines in Connecticut (New Canaan, Danbury, and Waterbury), 65.0% of the New Haven mainline operating deficit, and 54.3% of the Grand Central Terminal ("GCT") operating deficit. The New Haven line's share of the net operating deficit for the use of GCT is comprised of a fixed fee, calculated using several years as a base, with annual increases for inflation, and the actual cost of operating GCT's North End Access beginning in 1999. The Service Agreement also provides that CDOT pay 100% of the cost of non-movable capital assets located in Connecticut, 100% of movable capital assets to be used primarily on the branch lines and 65% of the cost of other movable capital assets allocated to the New Haven line. Remaining funding for New Haven line capital assets is provided by the MTA. The Service Agreement provides for automatic five-year renewals unless a notice of termination has been provided. The Service Agreement has been automatically extended for an additional five years beginning January 1, 2015 subject to the right of CDOT or MTA to terminate the agreement on eighteen month's written notice. Capital assets completely funded by CDOT are not reflected in these financial statements, as ownership is retained by CDOT. The Service Agreement provides that final billings for each year be subject to audit by CDOT. The audits of 2016 and 2017 billings are still open.

Reimbursement of Expenses — The cost of operating and maintaining the passenger stations of the Commuter Railroads in NYS is assessable by the MTA to NYC and the other counties in which such stations are located for each NYS fiscal year ending December 31, under provisions of the NYS Public Authorities Law. This funding is recognized as revenue based upon an amount, fixed by statute, for the costs to operate and maintain passenger stations and is revised annually by the increase or decrease of the regional Consumer Price Index.

In 1995, New York City ceased reimbursing the Authority for the full costs of the free/reduced fare program for students. Beginning in 1996, the State and New York City each began paying \$45 per annum to MTA New York City Transit toward the cost of the program. In 2009, the State reduced their \$45 reimbursement to \$6.3. Beginning in 2010, the State increased their annual commitment to \$25.3 while New York City's annual commitment remained at \$45. These commitments have been met by both the State and New York City for both 2017 and 2018.

Prior to April 1995, New York City was obligated to reimburse MTA New York City Transit for the transit police force. As a result of the April 1995 merger of the transit police force into the New York City Police Department, New York City no longer reimburses MTA New York City Transit for the costs of policing the Transit System on an ongoing basis since policing of the Transit System is being carried out by the New York City Police Department at New York City's expense. MTA New York City Transit continues to be responsible for certain capital costs and support services related to such police activities, a portion of which is reimbursed by New York City. MTA New York City Transit received approximately \$2.4 in the nine months ended September 30, 2019 and \$0 in the nine months ended September 30, 2018 from New York City for the reimbursement of transit police costs.

MTAHQ bills MTA Metro-North Railroad through its consolidated services for MTA police costs in the New Haven line of which MTA Metro-North Railroad recovers approximately 65% from Connecticut Department of Transportation. The amounts billed for the periods ended September 30, 2019 and 2018 were \$17.1 and \$17.1, respectively. The amounts recovered for the periods ended September 30, 2019 and 2018 were approximately \$11.1 and \$11.1, respectively.

Federal law and regulations require a paratransit system for passengers who are not able to ride the buses and trains because of their disabilities. Pursuant to an agreement between New York City and the MTA, MTA New York City Transit, effective July 1, 1993, assumed operating responsibility for all paratransit service required by the Americans with Disability Act of 1990. Services are provided by private vendors under contract with MTA New York City Transit. New York City reimburses MTA New York City Transit for the lesser of 33% of net paratransit operating expenses defined as labor, transportation, and administrative costs less fare revenues and 6% of gross urban tax proceeds as described above or, an amount that is 20% greater than the amount paid by New York City for the preceding calendar year. Fare revenues and New York City's



reimbursement aggregated approximately \$179.3 for the nine months ended September 30, 2019 and \$163.6 for the nine months ended September 30, 2018.

Grants and Appropriations — Grants and appropriations for capital projects are recorded when requests are submitted to the funding agencies for reimbursement of capital expenditures meeting eligibility requirements. These amounts are reported separately after Net Non-operating Revenues in the Statements of Revenues, Expenses, and Changes in Net Position.

**Operating and Non-operating Expenses** — Operating and non-operating expenses are recognized in the accounting period in which the liability is incurred. All expenses related to operating the MTA (e.g. salaries, insurance, depreciation, etc.) are reported as operating expenses. All other expenses (e.g. interest on long-term debt, subsidies paid to counties, etc.) are reported as non-operating expenses.

Liability Insurance — FMTAC, an insurance captive subsidiary of MTA, operates a liability insurance program ("ELF") that insures certain claims in excess of the self-insured retention limits of the agencies on both a retrospective (claims arising from incidents that occurred before October 31, 2003) and prospective (claims arising from incidents that occurred on or after October 31, 2003) basis. For claims arising from incidents that occurred on or after November 1, 2006, but before November 1, 2009, the self-insured retention limits are: \$8 for MTA New York City Transit, MaBSTOA, MTA Bus, MTA Long Island Rail Road, and MTA Metro-North Railroad; \$2.3 for MTA Long Island Bus and MTA Staten Island Railway; and \$1.6 for MTAHQ and MTA Bridges and Tunnels. For claims arising from incidents that occurred on or after November 1, 2009, but before November 1, 2012, the self-insured retention limits are: \$9 for MTA New York City Transit, MaBSTOA, MTA Bus, MTA Long Island Rail Road and MTA Metro-North Railroad; \$2.6 for MTA Long Island Bus and MTA Staten Island Railway; and \$1.9 for MTAHQ and MTA Bridges and Tunnels. Effective November 1, 2012, the self-insured retention limits for ELF were increased to the following amounts: \$10 for MTA New York City Transit, MaBSTOA, MTA Bus, MTA Long Island Rail Road and MTA Metro-North Railroad; \$3 for MTA Staten Island Railway; and \$2.6 for MTAHQ and MTA Bridges and Tunnels. Effective October 31, 2015, the self-insured retention limits for ELF were increased to the following amounts: \$11 for MTA New York City Transit, MaBSTOA, MTA Bus, MTA Long Island Rail Road and MTA Metro-North Railroad; \$3.2 for MTA Staten Island Railway, MTAHQ and MTA Bridges and Tunnels. The maximum amount of claims arising out of any one occurrence is the total assets of the program available for claims, but in no event greater than \$50. The retrospective portion contains the same insurance agreements, participant retentions, and limits as existed under the ELF program for occurrences happening on or before October 30, 2003. On a prospective basis, FMTAC issues insurance policies indemnifying the other MTA Group entities above their specifically assigned self-insured retention with a limit of \$50 per occurrence with a \$50 annual aggregate. FMTAC charges appropriate annual premiums based on loss experience and exposure analysis to maintain the fiscal viability of the program. On September 30, 2019, the balance of the assets in this program was \$163.4.

MTA also maintains an All-Agency Excess Liability Insurance Policy that affords the MTA Group additional coverage limits of \$350 for a total limit of \$400 (\$350 excess of \$50). In certain circumstances, when the assets in the program described in the preceding paragraph are exhausted due to payment of claims, the All-Agency Excess Liability Insurance will assume the coverage position of \$50.

On March 1, 2019, the "nonrevenue fleet" automobile liability policy program was renewed. This program provides third-party auto liability insurance protection for the MTA Group with the exception of MTA New York City Transit, MTA Bus and MTA Bridges and Tunnels. The policy provides \$11 per occurrence limit with a \$0.5 per occurrence deductible for MTA Long Island Rail Road, MTA Staten Island Railway, MTA Police, MTA Metro-North Railroad, MTA Inspector General and MTA Headquarters. FMTAC renewed its deductible buy back policy, where it assumes the liability of the agencies for their deductible.

On March 1, 2019, the "Access-A-Ride" automobile liability policy program was renewed. This program provides third-party auto liability insurance protection for the MTA New York City Transit's Access-A-Ride program, including the contracted operators. This policy provides \$2 per occurrence limit excess of a \$1 self-insured retention.

On December 15, 2018, FMTAC renewed the primary coverage on the Station Liability and Force Account liability policies \$11 per occurrence loss for MTA Metro-North Railroad and MTA Long Island Rail Road.

Property Insurance — Effective May 1, 2019, FMTAC renewed the all-agency property insurance program. For the annual period commencing May 1, 2019, FMTAC directly insures property damage claims of the Related Entities in excess of a \$25 per occurrence deductible, subject to an annual \$75 aggregate deductible. The total All Risk program annual limit is \$575 per occurrence and in the annual aggregate for Flood and Earthquake covering property of the Related Entities collectively. FMTAC is reinsured in the domestic, Asian, London, European and Bermuda reinsurance markets for this coverage. Losses occurring after exhaustion of the deductible aggregate are subject to a deductible of \$7.5 per occurrence. The property insurance policy provides replacement cost coverage for all risks (including Earthquake, Flood and Wind) of direct physical loss or damage to all real and personal property, with minor exceptions. The policy also provides extra expense and business interruption coverage.



Supplementing the \$575 per occurrence noted above, FMTAC's property insurance program has been expanded to include a further layer of \$125 of fully collateralized earthquake coverage for an event of a certain index value and for storm surge coverage for losses from storm surges that surpass specified trigger levels in the New York Harbor or Long Island Sound and are associated with named storms that occur at any point in the three year period from May 23, 2017 to April 30, 2020. The expanded protection is reinsured by MetroCat Re Ltd. 2017-1, a Bermuda special purpose insurer independent from the MTA and formed to provide FMTAC with capital markets based property reinsurance. The MetroCat Re Ltd. 2017-1 reinsurance policy is fully collateralized by a Regulation 114 trust invested in U.S. Treasury Money Market Funds. The additional coverage provided is parametric and available for storm surge losses resulting from a storm that causes water levels that reach the specified index values, and also for an earthquake event of a certain index value.

With respect to acts of terrorism, FMTAC provides direct coverage that is reinsured by the United States Government for 81% of "certified" losses in 2019 and 80% of "certified" losses in 2020, as covered by the Terrorism Risk Insurance Program Reauthorization Act ("TRIPRA") of 2015. The remaining 19% (2019) and 20% (2020) of the Related Entities' losses arising from an act of terrorism would be covered under the additional terrorism policy described below. No federal compensation will be paid unless the aggregate industry insured losses exceed a trigger of \$180 in 2019 and \$200 in 2020. The United States government's reinsurance is in place through December 31, 2020.

To supplement the reinsurance to FMTAC through the TRIPRA, MTA obtained an additional commercial reinsurance policy with various reinsurance carriers in the domestic, London and European marketplaces. That policy provides coverage for (1) 19% of any "certified" act of terrorism up to a maximum recovery of \$204.3 for any one occurrence and in the annual aggregate during 2019 and 20% of any "certified" act of terrorism up to a maximum recovery of \$215 for any one occurrence and in the annual aggregate during 2020 (2) the TRIPRA FMTAC captive deductible (per occurrence and on an aggregated basis) that applies when recovering under the "certified" acts of terrorism insurance or (3) 100% of any "certified" terrorism loss which exceeds \$5 and less than the \$180 TRIPRA trigger up to a maximum recovery of \$180 for any occurrence and in the annual aggregate during 2019 or 100% of any "certified" terrorism loss which exceeds \$5 and less than the \$200 TRIPRA trigger up to a maximum recovery of \$200 for any occurrence and in the annual aggregate during 2020.

Additionally, MTA purchases coverage for acts of terrorism which are not certified under TRIPRA to a maximum of \$204.3 in 2019 and \$215 in 2020. Recovery under the terrorism policy is subject to a deductible of \$25 per occurrence and \$75 in the annual aggregate in the event of multiple losses during the policy year. Should the Related Entities' deductible in any one year exceed \$75 future losses in that policy year are subject to a deductible of \$7.5. The terrorism coverages expire at midnight on December 31, 2020.

Additionally, MTA purchases coverage for acts of terrorism which are not certified under TRIPRA to a maximum of \$204.3 in 2019 and \$215 in 2020. Recovery under the terrorism policy is subject to a deductible of \$25 per occurrence and \$75 in the annual aggregate in the event of multiple losses during the policy year. Should the Related Entities' deductible in any one year exceed \$75 future losses in that policy year are subject to a deductible of \$7.5. The terrorism coverages expire at midnight on December 31, 2020.

Pension Plans — In accordance with the provisions of GASB Statement No. 68, Accounting and Financial Reporting for Pensions, the MTA recognizes a net pension liability for each qualified pension plan in which it participates, which represents the excess of the total pension liability over the fiduciary net position of the qualified pension plan, or the MTA's proportionate share thereof in the case of a cost-sharing multiple-employer plan, measured as of the measurement date of each of the qualified pension plans. Changes in the net pension liability during the year are recorded as pension expense, or as deferred inflows of resources or deferred outflows of resources depending on the nature of the change, in the year incurred. Those changes in net pension liability that are recorded as deferred inflows of resources or deferred outflows of resources that arise from changes in actuarial assumptions or other inputs and differences between expected or actual experience are amortized over the weighted average remaining service life of all participants in the respective qualified pension plan and recorded as a component of pension expense beginning with the year in which they are incurred. Projected earnings on qualified pension plan investments are recognized as a component of pension expense. Differences between projected and actual investment earnings are reported as deferred inflows of resources or deferred outflows of resources and amortized as a component of pension expense on a closed basis over a five-year period beginning with the year in which the difference occurred.

**Postemployment Benefits Other Than Pensions** — In June 2004, GASB issued Statement No. 45, *Accounting and Financial Reporting by Employers for Postemployment Benefits Other Than Pensions*, which established standards for the measurement, recognition, and display of OPEB expense/expenditures and related liabilities (assets), note disclosures, and if applicable, required supplementary information in the financial reports of state and local governmental employers. The MTA reported under this standard for its Postemployment Benefits Other Than Pensions for the year ended December 31, 2017.



Effective for the year ended December 31, 2018, the MTA adopted the standards of GASB Statement No. 75, Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions and GASB Statement No. 85, Omnibus for the OPEB Plan.

GASB has issued Statements No. 74 and 75, which replaced GASB Statements No. 43 and 45. The effective date of GASB Statement No. 74 (which applies to financial reporting on a plan basis) is the year ended December 31, 2017. The effective date of GASB Statement No. 75 (which applies to financial reporting by contributing employers) is the year ended December 31, 2018.

The MTA recognizes a net OPEB liability, which represents the excess of the total OPEB liability over the fiduciary net position of the OPEB Plan, measured as of the measurement date of the plan.

Changes in the net OPEB liability during the year are recorded as OPEB expense, or as deferred outflows of resources or deferred inflows of resources relating to OPEB depending on the nature of the change, in the year incurred. Changes in net OPEB liability that are recorded as deferred outflows of resources or deferred inflows of resources that arise from changes in actuarial assumptions and differences between expected or actual experience are amortized over the weighted average remaining service life of all participants in the OPEB plan and recorded as a component of OPEB expense beginning with the year in which they are incurred. Projected earnings on qualified OPEB plan investments are recognized as a component of OPEB expenses. Differences between projected and actual investment earnings are reported as deferred outflows of resources or deferred inflow of resources as a component of OPEB expense on a closed basis over a five-year period beginning with the year in which the difference occurred.

#### 3. CASH AND INVESTMENTS

*Cash* - The Bank balances are insured up to \$250 thousand in the aggregate by the Federal Deposit Insurance Corporation ("FDIC") for each bank in which funds are deposited. Cash, including deposits in transit, consists of the following at September 30, 2019 and December 31, 2018 (in millions):

	September 30, 2019			December 31, 2018					
	Carrying		Bank		Carrying			Bank	
	Amount		Balance		Amount		Balance		
	(Unaudited)								
FDIC insured or collateralized deposits	\$	95	\$	97	\$	75	\$	62	
Uninsured and not collateralized		487		430		466		406	
Total Balance	\$	582	\$	527	\$	541	\$	468	

All collateralized deposits are held by the MTA or its agent in the MTA's name.

The MTA, on behalf of itself, its affiliates and subsidiaries, invests funds which are not immediately required for the MTA's operations in securities permitted by the New York State Public Authorities Law, including repurchase agreements collateralized by U.S. Treasury securities, U.S. Treasury notes, and U.S. Treasury zero coupon bonds.

Custodial credit risk for deposits is the risk that, in the event of the failure of a depository financial institution, the MTA will not be able to recover the value of its deposits. While the MTA does not have a formal deposit policy for custodial credit risk, New York State statues govern the MTA's investment policies. The MTA's uninsured and uncollateralized deposits are primarily held by commercial banks in the metropolitan New York area and are subject to the credit risks of those institutions.

*Investments* - MTA holds most of its investments at a custodian bank. The custodian must meet certain banking institution criteria enumerated in MTA's Investment Guidelines. The Investment Guidelines also require the Treasury Division to hold at least \$100 of its portfolio with a separate emergency custodian bank. The purpose of this deposit is in the event that the MTA's main custodian cannot execute transactions due to an emergency outside of the custodian's control, the MTA has an immediate alternate source of liquidity.



The MTA categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure the fair value of the asset. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; Level 3 inputs are significant unobservable inputs.

The MTA had the following recurring fair value measurements as of September 30, 2019 and December 31, 2018 (in millions):

	September 30,		Fair Value Measurements			December 31,		Fair Value Measurements			
Investments by fair value level	2019		Level 1	Le	evel 2		2018		Level 1		Level 2
	(Unaudited)		(Unau	dited)							
Debt Securities:											
U.S. treasury securities	\$ 5,31	6	\$ 4,934	\$	382	\$	3,325	\$	2,984	\$	341
U.S. government agency	60	)4	14		590		387		261		126
Commercial paper	64	10	-		640		758		-		758
Asset-backed securities	4	17	-		47		45		-		45
Commercial mortgage-backed											
securities	9	94	-		94		81		-		81
Foreign bonds	2	20	20		-		16		16		-
Corporate bonds	14	10	140		-		133		133		-
Tax Benefit Lease Investments:											
U.S. treasury securities	19	00	190		-		178		178		-
U.S. government agency	13	31	-		131		112		-		112
Repurchase agreements	23	33	233				223		223		
Total investments by fair value level	7,41	5	\$ 5,531	\$	1,884		5,258	\$	3,795	\$	1,463
Other	12	22					122				
<b>Total Investments</b>	\$ 7,53	<u>87</u>				\$	5,380				

Investments classified as Level 1 of the fair value hierarchy, totaling \$5,531 and \$3,795 as of September 30, 2019 and December 31, 2018, respectively, are valued using quoted prices in active markets. Fair values include accrued interest to the extent that interest is included in the carrying amounts. Accrued interest on investments other than Treasury bills and coupons is included in other receivables on the statement of net position. The MTA's investment policy states that securities underlying repurchase agreements must have a fair value at least equal to the cost of the investment.

U.S. Government agency securities totaling \$721 and \$238, U.S, treasury securities totaling \$382 and \$341, commercial paper totaling \$640 and \$758, asset-backed securities totaling \$47 and \$45, and commercial mortgage-backed securities totaling \$94 and \$81 as of September 30, 2019 and December 31, 2018, respectively, classified in Level 2 of the fair value hierarchy, are valued using matrix pricing techniques maintained by a third party pricing service. Matrix pricing is used to value securities based on the securities' relationship to benchmark quoted prices and indices. Fair value is defined as the quoted market value on the last trading day of the period. These prices are obtained from a third party pricing service or our custodian bank.

In connection with certain lease transactions described in Note 8, the MTA has purchased securities or entered into payment undertaking, letter of credit, or similar type agreements or instruments (guaranteed investment contracts) with financial institutions, which generate sufficient proceeds to make basic rent and purchase option payments under the terms of the leases. If the obligors do not perform, the MTA may have an obligation to make the related rent payments.

All investments, other than the investments restricted for capital lease obligations, are either insured or registered and held by the MTA or its agent in the MTA's name. Investments restricted for capital lease obligations are either held by MTA or its agent in the MTA's name or held by a custodian as collateral for MTA's obligation to make rent payments under capital lease obligations. Investments had weighted average yields of 1.98% and 2.36% for the nine months ended September 30, 2019 and year ended December 31, 2018, respectively.



**Credit Risk** — At September 30, 2019 and December 31, 2018, the following credit quality rating has been assigned to MTA investments by a nationally recognized rating organization (in millions):

Quality Rating Standard & Poor's	mber 30, 019	Percent of Portfolio	mber 31, 2018	Percent of Portfolio
	 (Unaudi	ited)		
A-1+	\$ 486	7%	\$ 283	5%
A-1	640	9%	758	14%
AAA	231	3%	217	4%
AA+	61	1%	52	1%
AA	36	0%	31	1%
A	86	1%	76	1%
BBB	39	1%	38	1%
Not rated	260	4%	240	5%
U.S. Government	5,576	74%	3,563	68%
Total	 7,415	100%	5,258	100%
Equities and capital leases	122		122	
Total investment	\$ 7,537		\$ 5,380	

**Interest Rate Risk** — Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of the investment. Duration is a measure of interest rate risk. The greater the duration of a bond or portfolio of bonds, the greater its price volatility will be in response to a change in interest rate risk and vice versa. Duration is an indicator of bond price's sensitivity to a 100 basis point change in interest rates.

	September 30, 2019			<b>December 31, 2018</b>		
	(Unaudited)					
		Fair Value	Duration		Fair Value	Duration
(In millions)			(in years)			(in years)
U.S. Treasuries	\$	5,316	4.28	\$	3,325	3.00
Federal Agencies		604	6.15		387	5.91
Tax benefits lease investments		321	7.97		290	8.06
Repurchase agreement		233	-		223	-
Commercial paper		640	-		758	-
Asset-backed securities (1)		47	1.89		45	1.94
Commercial mortgage-backed securities (1)		94	4.31		81	5.55
Foreign bonds (1)		20	6.25		16	6.20
Corporates (1)		140	4.48		133	4.43
Total fair value		7,415			5,258	
Modified duration			4.08			3.01
Investments with no duration reported		122			122	
Total investments	\$	7,537		\$	5,380	

<sup>(1)</sup> These securities are only included in the FMTAC portfolio.

MTA is a public benefit corporation established under the New York Public Authorities Law. MTA's Treasury Division is responsible for the investment management of the funds of the component units. The investment activity covers all operating and capital funds, including bond proceeds, and the activity is governed by State statutes, bond resolutions and the Board-adopted investment guidelines (the "Investment Guidelines"). The MTA Act currently permits the Related Entities to invest in the following general types of obligations:

- obligations of the State or the United States Government;
- obligations of which the principal and interest are guaranteed by the State or the United States government;
- obligations issued or guaranteed by certain Federal agencies;
- repurchase agreements fully collateralized by the obligations of the foregoing United States Government and Federal agencies;
- certain certificates of deposit of banks or trust companies in the State;
- certain banker's acceptances with a maturity of 90 days or less;



- certain commercial paper;
- · certain municipal obligations; and
- certain mutual funds up to \$10 in the aggregate.

MTA adopted NYS Statutory Requirements with respect to credit risk of its investments, which include, but are not limited to the following sections:

- i. Public Authorities Law Sections 1265(4) (MTA), 1204(19) (MTA New York City Transit Authority) and 553(21) (MTA Bridges and Tunnels);
- ii. Public Authorities Law Section 2925 Investment of funds by public authorities and public benefit corporations; general provisions; and
- iii. State Finance Law Article 15 EXCELSIOR LINKED DEPOSIT ACT.

MTA Investment Guidelines limit the dollar amount invested in banker acceptances, commercial paper, and obligations issued or guaranteed by certain Federal agencies to \$250 at cost. There are no dollar limits on the purchase of obligations of the United States government, the State or obligations the principal and interest of which are guaranteed by the State or the United States government. Investments in collateralized repurchase agreements are limited by dealer or bank's capital. MTA can invest no greater than \$300 with a bank or dealer rated in Tier 1 (i.e. \$1 billion or more of capital).

FMTAC is created as a MTA subsidiary and is licensed as a captive direct insurer and reinsurer by the New York State Department of Insurance. As such, FMTAC is responsible for the investment management of its funds. The investment activity is governed by State statutes and the FMTAC Board adopted investment guidelines. The minimum surplus to policyholders and reserve instruments are invested in the following investments:

- obligations of the United States or any agency thereof provided such agency obligations are guaranteed as to principal and interest by the United States;
- direct obligations of the State or of any county, district or municipality thereof;
- any state, territory, possession or any other governmental unit of the United States;
- certain bonds of agencies or instrumentalities of any state, territory, possession or any other governmental unit of the United States;
- the obligations of a solvent American institution which are rated investment grade or higher (or the equivalent thereto) by a securities rating agency; and
- certain mortgage backed securities in amounts no greater than five percent of FMTAC's admitted assets.

FMTAC may also invest non-reserve instruments in a broader range of investments including the following general types of obligations:

- · certain equities; and
- certain mutual funds.

FMTAC is prohibited from making the following investments:

- investment in an insolvent entity;
- any investment as a general partner; and
- any investment found to be against public policy.

FMTAC investment guidelines do include other investments, but FMTAC has limited itself to the above permissible investments at this time.



## 4. EMPLOYEE BENEFITS

Pensions — The MTA Related Groups sponsor and participate in several defined benefit pension plans for their employees, the Long Island Railroad Company Plan for Additional Pensions (the "Additional Plan"), The Manhattan and Bronx Surface Transit Operating Authority Pension Plan (the "MaBSTOA Plan"), the Metro-North Commuter Railroad Company Cash Balance Plan (the "MNR Cash Balance Plan"), the Metropolitan Transportation Authority Defined Benefit Plan (the "MTA Defined Benefit Plan"), the New York City Employees' Retirement System ("NYCERS"), and the New York State and Local Employees' Retirement System ("NYSLERS"). A brief description of each of these pension plans follows:

# Plan Descriptions

## 1. Additional Plan —

The Additional Plan is a single-employer defined benefit pension plan that provides retirement, disability and survivor benefits to members and beneficiaries. The Additional Plan covers MTA Long Island Rail Road employees hired effective July 1, 1971 and prior to January 1, 1988. The Additional Plan's activities, including establishing and amending contributions and benefits are administered by the Board of Managers of Pensions. The Additional Plan is a governmental plan and accordingly, is not subject to the funding and other requirements of the Employee Retirement Income Security Act of 1974 ("ERISA"). The Additional Plan is a closed plan.

The Board of Managers of Pensions is comprised of the Chairman of the MTA, MTA Chief Financial Officer, MTA Director of Labor Relations and the agency head of each participating Employer or the designee of a member of the Board of Managers. The Additional Plan for Additional Pensions may be amended by action of the MTA Board.

The pension plan has a separately issued financial statement that is publicly available and contains required descriptions and supplemental information regarding the employee benefit plan. The financial statements may be obtained at www. mta.info or by writing to, Long Island Rail Road, Controller, 93-02 Sutphin Boulevard – mail code 1421, Jamaica, New York 11435.

## 2. MaBSTOA Plan —

The MaBSTOA Plan is a single-employer defined benefit governmental retirement plan administered by MTA New York City Transit covering MaBSTOA employees, who are specifically excluded from NYCERS. The Plan provides retirement as well as death, accident and disability benefits. Effective January 1, 1999, in order to afford managerial and non-represented MaBSTOA employees the same pension rights as like title employees in MTA New York City Transit Authority, membership in the MaBSTOA Plan is optional.

The Board of Administration, established in 1963, determines the eligibility of employees and beneficiaries for retirement and death benefits. The MaBSTOA Plan assigns authority to the MaBSTOA Board to modify, amend or restrict the MaBSTOA Plan or to discontinue it altogether, subject, however, to the obligations under its collective bargaining agreements. The Board is composed of five members: two representatives from the Transport Workers Union, Local 100 ("TWU") and three employer representatives.

The pension plan issues a publicly available financial report that includes financial statements and required supplementary information. This report may be obtained by writing to MTA Comptroller, 2 Broadway, 16th Floor, New York, New York, 10004 or at <a href="https://www.mta.info">www.mta.info</a>.

#### 3. MNR Cash Balance Plan —

The MNR Cash Balance Plan is a single employer, defined benefit pension plan administered by MTA Metro-North Railroad. The MNR Cash Balance Plan covers non-collectively bargained employees, formerly employed by Conrail, who joined MTA Metro-North Railroad as management employees between January 1 and June 30, 1983, and were still employed as of December 31, 1988. Effective January 1, 1989, these management employees became covered under the Metro-North Commuter Railroad Defined Contribution Plan for Management Employees (the "Management Plan") and the MNR Cash Balance Plan was closed to new participants. The assets of the Management Plan were merged with the Metropolitan Transportation Authority Defined Benefit Plan for Non-Represented Employees (now titled as the Metropolitan Transportation Authority Defined Benefit Pension Plan) as of the asset transfer date of July 14, 1995. The MNR Cash Balance Plan is designed to satisfy the applicable requirements for governmental plans under Section 401(a) and 501(a) of the Internal Revenue Code. Accordingly, the MNR Cash Balance Plan is tax-exempt and is not subject to the provisions of ERISA.



The MTA Board of Trustees appoints a Board of Managers of Pensions consisting of five individuals who may, but need not, be officers or employees of the company. The Board of Managers control and manage the operation and administration of the MNR Cash Balance Plan's activities, including establishing and amending contributions and benefits.

Further information about the MNR Cash Balance Plan is more fully described in the separately issued financial statements that can be obtained by writing to MTA Comptroller, 2 Broadway, 16th Floor, New York, New York, 10004. These statements are also available at www.mta.info.

# 4. MTA Defined Benefit Plan —

The MTA Defined Benefit Pension Plan (the "MTA Plan" or the "Plan") is a cost sharing, multiple-employer defined benefit pension plan. The Plan covers certain MTA Long Island Rail Road non-represented employees hired after December 31, 1987, MTA Metro-North Railroad non-represented employees, certain employees of the former MTA Long Island Bus hired prior to January 23, 1983, MTA Police, MTA Long Island Rail Road represented employees hired after December 31, 1987, certain MTA Metro-North Railroad represented employees, MTA Staten Island Railway represented and non-represented employees and certain employees of the MTA Bus Company ("MTA Bus"). The MTA, MTA Long Island Rail Road, MTA Metro-North Railroad, MTA Staten Island Railway and MTA Bus contribute to the MTA Plan, which offers distinct retirement, disability retirement, and death benefit programs for their covered employees and beneficiaries.

The MTA Defined Benefit Plan is administered by the Board of Managers of Pensions. The MTA Plan, including benefits and contributions, may be amended by action of the MTA Board.

The pension plan issues a publicly available financial report that includes financial statements and required supplementary information. This report may be obtained by writing to the MTA Comptroller, 2 Broadway, 16th Floor, New York, New York, 10004 or at www.mta.info.

# 5. NYCERS—

NYCERS is a cost-sharing, multiple-employer retirement system for employees of The City of New York ("The City") and certain other governmental units whose employees are not otherwise members of The City's four other pension systems. NYCERS administers the New York City Employees Retirement System qualified pension plan.

NYCERS was established by an act of the Legislature of the State of New York under Chapter 427 of the Laws of 1920. NYCERS functions in accordance with the governing statutes contained in the New York State Retirement and Social Security Law ("RSSL"), and the Administrative Code of the City of New York ("ACNY"), which are the basis by which benefit terms and employer and member contribution requirements are established and amended. The head of the retirement system is the Board of Trustees.

NYCERS issues a publicly available comprehensive annual financial. This report may be obtained by writing to the New York City Employees' Retirement System at 335 Adams Street, Suite 2300, Brooklyn, NY 11201-3724 or at www.nycers.org.

All employees of the Related Group holding permanent civil service positions in the competitive or labor class are required to become members of NYCERS six months after their date of appointment, but may voluntarily elect to join NYCERS prior to their mandated membership date. All other eligible employees have the option of joining NYCERS upon appointment or anytime thereafter. NYCERS members are assigned to a "tier" depending on the date of their membership.

Tier 1	All members who joined prior to July 1, 1973.
Tier 2	All members who joined on or after July 1, 1973 and before July 27, 1976.
Tier 3	Only certain members who joined on or after July 27, 1976 and prior to April 1, 2012
Tier 4	All members (with certain member exceptions) who joined on or after July 27, 1976 but prior to April 1, 2012. Members who joined on or after July 27, 1976 but prior to September 1, 1983 retain all rights and benefits of Tier 3 membership.
Tier 6	Members who joined on or after April 1, 2012



## 6. NYSLERS —

NYSLERS is a cost-sharing, multiple-employer defined benefit retirement system. The New York State Comptroller's Office administers the NYSLERS. The net position of NYSLERS is held in the New York State Common Retirement Fund (the "Fund"), which was established to hold all assets and record changes in fiduciary net position allocated to the plan. The Comptroller of the State of New York serves as the trustee of the Fund and is the administrative head of NYSLERS. NYSLERS' benefits are established under the provisions of the New York State RSSL. Once a public employer elects to participate in NYSLERS, the election is irrevocable. The New York State Constitution provides that pension membership is a contractual relationship and plan benefits cannot be diminished or impaired. Benefits can be changed for future members only by enactment of a State statute.

NYSLERS is included in New York State's financial report as a pension trust fund. The report can be accessed on the New York State Comptroller's website at www.osc.state.ny.us/retire/about\_us/financial\_statements\_index.php or obtained by writing to the New York State and Local Retirement System, 110 State Street, Albany, NY 12244-001.

Pension legislation enacted in 1973, 1976, 1983, 2009 and 2012 established distinct classes of tier membership.

Tier 1	All members who joined prior to July 1, 1973.
Tier 2	All members who joined on or after July 1, 1973 and before July 27, 1976.
Tier 3	Generally, certain members who joined on or after July 27, 1976 but before January 1, 2010 and all other members who joined on or after July 27, 1976, but before September 1, 1983.
Tier 4	Generally, members (with certain member exceptions) who joined on or after September 1, 1983, but before January 1, 2010.
Tier 5	Members who joined on or after January 1, 2010, but before April 1, 2012.

Members who joined on or after April 1, 2012.

# **Benefits Provided**

Tier 6

## 1. Additional Plan —

Pension Benefits — An employee who retires under the Additional Plan, either: (a) after completing at least 20 years of credited service, or (b) after both attaining age 65 while in service and completing at least five years of credited service, or in the case of those who were active employees on January 1, 1988, after completing at least 10 years of credited service, is entitled to an annual retirement benefit, payable monthly for life. Payments commence to an employee referred to in: (a) only after attaining age 50, or (b) only after attaining age 65.

Benefit and contribution provisions, which are based on the point in time at which participants last entered qualifying service and their length of credited service, are established by, and may only be amended by the MTA Long Island Rail Road, subject to the obligations of the MTA Long Island Rail Road under its collective bargaining agreements.

The Additional Plan has both contributory and non-contributory requirements, with retirement ages varying from 50 to 65 depending upon a participant's length of credited service. Pension benefits payable to age 65, where eligible, are calculated as 2% of the employee's applicable final average earnings for each year of qualifying service up to 25 years plus 1.5% of applicable final average earnings for each year of qualifying service in excess of 25 years. For pension benefits payable at and after age 65, regardless of whether benefits commenced before or after the employee attained age 65, benefits are calculated in the same manner as pension benefits payable prior to age 65 except that the amount so determined is reduced by a percentage of the employee's annuity (not including any supplemental annuity) value at age 65 under the Federal Railroad Retirement Act.

Participants who entered qualifying service before July 1, 1978 are not required to contribute. Participants who entered qualifying service on or after July 1, 1978, are required to contribute 3% of their wages. The MTA Long Island Rail Road contributes additional amounts based on actuarially determined amounts that are designed to accumulate sufficient assets to pay benefits when due.

Death and Disability Benefits — Participants who become disabled after accumulating 10 years of credited service and who meet the requirements as described in the Additional Plan receive a disability benefit. Disability pension benefits are calculated based on the participant's qualifying service and a percentage of final average compensation reduced by the full amount of benefit under the Federal Railroad Retirement Act. Survivorship benefits are paid to the participant's



spouse when a survivorship option is elected or when an active participant has not divested his or her spouse of benefits. The survivorship benefit is payable at the time of death or when the vested participant would have attained an eligible age. The amount payable is in the form of an annuity. A lump sum death benefit no greater than five thousand dollars is payable upon death on behalf of a non-vested participant or vested participant whose pension rights were waived.

Retirement benefits establishment and changes for representative employees are collectively bargained and must be ratified by the respective union and the MTA Board. For non represented employees, amendments must be approved by the MTA Board.

# 2. MaBSTOA Plan —

The MaBSTOA Plan provides retirement as well as death, accident, and disability benefits. The benefits provided by the MaBSTOA Plan are generally similar to the benefits provided to MTA New York City Transit participants in NYCERS. Benefits vest after either 5, 10, or 20 years of credited service, depending on the date of membership.

In 2008, NYCERS had determined that Tier 4 employees are and have been eligible for a post retirement death benefit retroactive to 1986. In June 2012, the MTA Board approved an amendment to the MaBSTOA Plan to provide for incorporation of this benefit.

# Tier 1 —

Eligibility and Benefit Calculation: Tier 1 members must be at least age 50 with the completion of 20 years of service to be eligible to collect a service retirement benefit. Generally, the benefit is 1.50% for service before March 1, 1962, plus 2.0% for service from March 1, 1962 to June 30, 1970, plus 2.5% for service after June 30, 1970. The accumulated percentage, up to a maximum of 50%, is multiplied by the member's compensation, which is the greater of earned salary during the year prior to retirement. Once the accumulated reaches 50%, the percentage for each further year of service reverts back to 1.5%. The percentage in excess of 50% is multiplied by the final compensation, which is the highest average earnings over five consecutive years.

Ordinary Disability Benefits — Generally, ordinary disability benefits, are provided to eligible Tier 1 members after ten years of service with the benefit equal to the greater of the service retirement percentages or 25% multiplied by final compensation.

Accidental Disability Benefits — The accidental disability benefit to eligible Tier 1 members is equal to 75% of final compensation reduced by 100% of any worker's compensation payments.

Ordinary Death Benefits — For Tier 1 members the amount of the death benefit is a lump sum equal to six months' pay for members with less than 10 years of service; a lump sum equal to a 12 months of pay for members with more than 10 but less than 20 years of service, and a lump sum equal to two times 12 months of pay for members with more than 20 years of service.

#### *Tier 2* —

Eligibility and Benefit Calculation: Tier 2 members must be at least age 55 with the completion of 25 years of service to be eligible to collect a service retirement benefit. Generally, the benefit equals 50% of final 3-year average compensation, defined as the highest average earnings over three consecutive years, plus 1% of final 5-year average compensation, defined as the highest average earnings over five consecutive years, per year of credited service in excess of 20 years. For early retirement, members must be at least age 50 with the completion of at least 20 years of service. The benefit is determined in the same manner as the service retirement but not greater than 2.0% of final 3-year average compensation per year of service.

Ordinary Disability Benefits — Generally, ordinary disability benefits, are provided to eligible Tier 2 members after ten years of service with the benefit equal to the greater of the service retirement percentages or 25% multiplied by the final 5- year average compensation.

Accidental Disability Benefits — The accidental disability benefit to eligible Tier 2 members is equal to 75% of the final 5-year average compensation reduced by any worker's compensation payments.

Ordinary Death Benefits — Tier 2 members require the completion of 90 days of service to receive a lump sum equal to 3 times salary, raised to the next multiple of \$1,000 dollars.

## Tiers 3, 4 —

Eligibility and Benefit Calculation: Tier 3 and 4 members in the Regular 62 and 5 Plan must be at least age 62 with the completion of at least 5 years of service to be eligible to collect a service retirement benefit. Generally, the benefit for members with at least 20 years of service, is equal to 2.0% of Final Average Compensation ("FAC") for the first 30 years of service plus 1.5% of FAC for years of service in excess of 30. FAC is defined as the highest average earnings over three consecutive years, of which earnings in a year cannot exceed 110% of the average of the two preceding



years. If the member completes less than 20 years of credited service, the benefit equals 1-2/3% of FAC multiplied by years of service. For early retirement, members must be at least age 55 with the completion of at least 5 years of service. The benefit equals the service retirement benefit reduced by 6% for each of the first two years prior to age 62, and by 3% for years prior to age 60.

Tier 3 and 4 members in the basic 55/25 Plan must be at least age 55 with the completion of at least 25 years of service, or be at least age 62 with the completion of at least 5 years of service, to be eligible to collect a service retirement benefit. Generally, the benefit for members with at least 25 years of service, is equal to 2.0% of FAC for the first 30 years of service plus 1.5% of FAC for years of service in excess of 30. If the member completes less than 25 years of credited service, the benefit equals 1-2/3% of FAC multiplied by years of service.

Tier 4 members in the 57/5 Plan must be at least age 57 with the completion of at least 5 years of service to be eligible to collect a service retirement benefit. Generally, the benefit for members with at least 20 years of service, is equal to 2.0% of FAC for the first 30 years of service plus 1.5% of FAC for years of service in excess of 30. If the member completes less than 20 years of credited service, the benefit equals 1-2/3% of FAC multiplied by years of service.

Ordinary and Accidental Disability Benefits — For eligible members of the Regular 62/5 Plan, 57/25Plan and 57/5 Plan, ordinary and accidental disability benefits, are provided after 10 years of service for ordinary and no service required for accidental disability benefit. The benefit equals the greater of 1-2/3% of FAC per year of service and 1/3 of FAC.

Ordinary Death Benefits — For eligible members of the Regular 62/5 Plan, 55/25 Plan, 57/5 Plan, the pre-retirement ordinary death benefit is equal to a lump sum of annual salary times the lesser of completed years of service and 3. After age 60, the benefit is reduced 5% per year, to a maximum reduction of 50%. Accumulated regular member contributions with interest and one-half of accumulated additional member contributions with interest are also payable. Upon retirement, the post-retirement benefit is reduced by 50% and reduced an additional 25% after completion of one year of retirement. After completion of two years of retirement, the benefit equals 10% of the pre-retirement benefit in force at age 60.

## *Tier 6* —

Eligibility and Benefit Calculation: Tier 6 members in the 55/25 Special Plan must be at least age 55 with the completion of at least 25 years, or at least age 63 with the completion of at least 10 years of service, to be eligible to collect a service retirement benefit. Generally, the benefit for members with at least 25 years of service, is equal to 2.0% of Final Average Salary ("FAS") for the first 30 years of service plus 1.5% of FAS for years of service in excess of 30. If the member completes less than 20 years of credited service, the benefit equals 1-2/3% of FAS multiplied by years of service. FAS is defined as the highest average pensionable compensation over five consecutive years.

Tier 6 members in the Basic 63/10 Plan must be at least age 63 with the completion of at least 10 years to be eligible to collect a service retirement benefit. Generally, the benefit for members with at least 20 years of service, is equal to 35% of FAS plus 2.0% of FAS for years of service in excess of 20. If the member completes less than 20 years of credited service, the benefit equals 1-2/3% of FAS multiplied by years of service. FAS is defined as the highest average pensionable earnings over five consecutive years. For early retirement, members must be at least age 55 with the completion of at least 10 years of service. The benefit equals the service retirement benefit reduced by 6.5% for each year early retirement precedes age 63.

Ordinary and Accidental Disability Benefits — For eligible members of the 55/25 Special Plan and the Basic 63/10 Plan, ordinary and accidental disability benefits, are provided after 10 years of credited service for ordinary disability benefit. There is no service requirement for accidental disability benefit. The benefit equals the greater of 1-2/3% of FAS per year of service and 1/3 of FAS.

Ordinary Death Benefits — For eligible members of the 55/25 Special Plan and the Basic 63/10 Plan, the pre-retirement ordinary death benefit is equal to a lump sum of annual salary times the lesser of completed years of service and 3. After age 60, the benefit is reduced 5% per year, to a maximum reduction of 50%. Accumulated regular member contributions with interest and one-half of accumulated additional member contributions with interest are also payable. Upon retirement, the post-retirement benefit is reduced by 50% and reduced an additional 25% after completion of one year of retirement. After completion of two years of retirement, the benefit equals 10% of the pre-retirement benefit in force at age 60.

# 3. MNR Cash Balance Plan —

Pension Benefits — Participants of the MNR Cash Balance Plan are vested in their benefit upon the earlier of (a) the completion of 5 years of service with MTA Metro-North Railroad or (b) the attainment of age 62. The accrued benefit is a participant's Initial Account Balance increased each month by the benefit escalator. The benefit escalator is defined as the Pension Benefit Guaranty Corporation ("PBGC") immediate annuity rate in effect for December of the year preceding the year for which the determination is being made) divided by 180. The accrued benefit is paid as an escalating annuity. Vested participants are entitled to receive pension benefits commencing at age sixty-five.



Participants may elect to receive the value of their accumulated plan benefits as a lump-sum distribution upon retirement or they may elect a monthly life annuity. Participants may elect to receive their pension in the form of a joint and survivor annuity.

Participants of the MNR Cash Balance Plan are eligible for early retirement benefits upon termination of employment, the attainment of age 62, or age 60 and completion of 15 years of service, or age 55 and the completion of 30 years of service. The early retirement benefits paid is the normal retirement pension deferred to age 65 or an immediate pension equal to the life annuity actuarial equivalent of a participant's escalating annuity at normal retirement date indexed by the Initial Benefit Escalator from early retirement date to normal retirement date and reduced by 5/9 of 1% for each month retirement precedes age 65 up to 60 months and 5/18 of 1% for each month after 60 months.

For members with cash balances who are currently members of the Metropolitan Transportation Authority Defined Benefit Pension Plan, an additional benefit is provided equal to the amount needed to bring their total benefits (i.e., Railroad Retirement Tier I and II benefits, Conrail Plan benefits, Cash Balance Plan benefits, and MTA Defined Benefit Pension Plan benefits) up to a minimum of 65% of their 3-year final average pay under the MTA Defined Benefit Plan. In no event will the Additional Benefit exceed 2% of 3-year final average pay multiplied by the Conrail Management Service prior to July 1, 1983. This benefit is payable as a life annuity and is reduced for commencement prior to age 65 in the same manner as the regular cash balance benefit. This additional benefit is payable only in the form of a life annuity or 100% or 50% contingent annuity.

Death Benefits — Benefits are paid to vested participants' beneficiaries in the event of a participants' death. The amount of benefits payable is the participant's account balance at the date of his or her death. Pre-retirement death benefits paid for a participant's death after 55 is equal to the amount the spouse would have received had the participant elected retirement under the normal form of payment on the day preceding his death. Pre-retirement death benefits paid for a participant's death before 55 is equal to the amount the spouse would have received had the participant survived to age 55 and retired under the normal form of payment on that date. The benefit is based on service to the participant's date of death and is payable beginning on the date the participant would have attained age 55.

In lieu of the above benefit, the surviving spouse can elect to receive the participant's account balance in a single lump sum payment immediately. If the participant was not married, the participant's beneficiary is entitled to receive the participant's Account Balance as of the participant's date of death in a single lump sum payment.

# 4. MTA Defined Benefit Plan —

Pension Benefits — Retirement benefits are paid from the Plan to covered MTA Metro-North Railroad, MTA Staten Island Railway and post - 1987 MTA Long Island Rail Road employees as service retirement allowances or early retirement allowances. A participant is eligible for a service retirement allowance upon termination if the participant satisfied both age and service requirement. A participant is eligible for a service retirement allowance upon termination if the participant satisfied both age and service requirements. A participant is eligible for an early retirement allowance upon termination if the participant has attained age 55 and completed at least 10 years of credited service. Terminated participants with 5 or more years of credited service are eligible for a deferred vested benefit. Deferred vested benefits are payable on an unreduced basis on the first day of the month following the participant's 62nd birthday.

Certain represented employees of the MTA Long Island Rail Road and the MTA Metro-North Railroad continue to make contributions to the Plan for 15 years. Certain represented employees of the MTA Long Island Rail Road and the MTA Metro-North Railroad are eligible for an early retirement allowance upon termination if the participant has attained age 60 and completed at least 5 years of credited service, or has attained age 55 and completed at least 30 years of credited service. The early retirement allowance is reduced one-quarter of 1% per month for each full month that retirement predates age 60 for certain represented employees of the MTA Long Island Rail Road and the MTA Metro-North Railroad.

Effective in 2007, members and certain former members who become (or became) employed by another MTA agency which does not participate in the Plan continue to accrue service credit based on such other employment. Upon retirement, the member's vested retirement benefit from the Plan will be calculated on the final average salary of the subsequent MTA agency, if higher. Moreover, the Plan benefit will be reduced by the benefit, if any, payable by the other plan based on such MTA agency employment. Such member's disability and ordinary death benefit will be determined in the same way.

Retirement benefits are paid from the Plan under the MTA 20-Year Police Retirement Program. A participant is eligible for service retirement at the earlier of completing twenty years of credited Police service or attainment of age 62. Terminated participants with five years of credited police service, who are not eligible for retirement, are eligible for a deferred benefit. Deferred vested benefits are payable on the first of the month following the participant's attainment of age 55.



Retirement benefits paid from the Plan to covered represented MTA Bus employees include service retirement allowances or early retirement allowances. Under the programs covering all represented employees at Baisley Park, Eastchester, LaGuardia, Spring Creek, and Yonkers Depots and the represented employees at College Point Depot, JFK, Far Rockaway a participant is eligible for a service retirement allowance upon termination if the participant has attained age sixty-five and completed at least five years of credited service or if the participant has attained age 57 and completed at least 20 years of credited service. A participant hired prior to June 2009 from Baisley Park, College Point, and La Guardia Depots is eligible for an early retirement allowance if the participant has attained age 55 and completed 20 years of credited service. Terminated participants with five or more years of credited service who are not eligible to receive a service retirement allowance or early retirement allowance are eligible for a deferred vested benefit. Deferred vested benefits are payable on an unreduced basis on or after the participant attains age 65.

At Baisley Park, Far Rockaway, JFK, LaGuardia and Spring Creek Depots, a participant who is a non-represented employee is eligible for an early retirement allowance upon termination if the participant has attained age 55 and completed 15 years of service. Terminated participants with five or more years of credited service who are not eligible to receive a service retirement allowance or early retirement allowance are eligible for a deferred vested benefit. Deferred vested benefits are payable on an unreduced basis on or after the participant attains age 62.

The MTA Bus retirement programs covering represented and non-represented employees at Eastchester and Yonkers and covering the represented employees at Baisley Park, College Point, Far Rockaway, JFK, LaGuardia and Spring Creek are fixed dollar plans, i.e., the benefits are a product of credited service and a specific dollar amount.

The retirement benefits for certain non-represented employees at Baisley Park, Far Rockaway, JFK, LaGuardia and Spring Creek are based on final average salary. Certain participants may elect to receive the retirement benefit as a single life annuity or in the form of an unreduced 75% joint and survivor benefit.

Pre-1988 MTA Long Island Rail Road participants are eligible for a service retirement allowance upon termination if the participants has either: (a) attained age sixty-five and completed at least five years of credited service, or if an employee on January 1, 1988 completed at least 10 years of credited service, or (b) attained age fifty and has completed at least 20 years of credited service. Terminated participants who were not employees on January 1, 1988 with five or more years of credited service are eligible for a deferred vested benefit. Pension benefits payable to age 65, where eligible, are calculated as 2% of the employee's applicable final average earnings for each year of qualifying service up to 25 years plus 1.5% of applicable final average earning of each year of qualifying service in excess of 25 years. For pension benefits payable at and after age 65 regardless of whether benefits commenced before or after the employee attained age 65, benefits are calculated in the same manner as pension benefits payable prior to age 65 except that the amount so determined is reduced by a percentage of the employee's annuity (not including supplemental annuity) value at age 65 under the Federal Railroad Retirement Act. The reduction of pension benefits for amounts payable under the Federal Railroad Retirement Act is 50%.

Death and Disability Benefits — In addition to service retirement benefits, participants of the Plan are eligible to receive disability retirement allowances and death benefits. Participants who become disabled may be eligible to receive disability retirement allowances after 10 years of covered MTA Bus service; 10 years of credited service for covered MTA Metro-North Railroad and MTA Long Island Rail Road management and represented employees, covered MTA Staten Island Railway employees and covered MTA police participants.

The disability retirement allowance for covered MTA Metro-North Railroad and MTA Long Island Rail Road management and represented covered MTA Staten Island Railway employees is calculated based on the participant's credited service and final average salary ("FAS") but not less than ½ of FAS. Under the MTA 20 Year Police Retirement Program, a disabled participant may be eligible for one of three forms of disability retirement: (a) ordinary disability which is payable if a participant has ten years of credited Police service and is calculated based on the participant's credited Police service and FAS but not less than ½ of FAS; (b) performance of duty, which is payable if a participant is disabled in the performance of duty and is ½ of FAS, and (c) accidental disability, which is payable if a participant is disabled as the result of an on-the-job accidental injury and is ¾ of FAS subject to an offset of Workers' Compensation benefits. Pursuant to the MTA Bus programs, the disability benefit is the same as the service retirement benefit.

Pre -1988 MTA Long Island Rail Road participants who become disabled after accumulating 10 years of credited service and who meet the requirements as described in the Plan may be eligible to receive a disability benefit. Disability pension benefits are based on the participant's qualified service and a percentage of final average compensation reduced by the full amount of the disability benefit under the Federal Railroad Retirement Act. Survivorship benefits for pre-1988 MTA Long Island Rail Road participants are paid to the spouse when a survivorship option is elected or when an active participant has not divested their spouse of benefits.

The survivorship benefit is payable at the time of death or when the vested participant would have attained an eligible age. The amount payable is in the form of an annuity. A lump sum death benefit no greater than \$5,000 (whole dollars) is payable upon death on behalf of a non-vested participant or vested participant whose pension rights were waived.



Death benefits are paid to the participant's beneficiary in the event of the death of a covered MTA Metro-North Railroad, post-1987 MTA Long Island Rail Road or MTA Staten Island Railway employee after completion of one year of credited service. The death benefit payable is calculated based on a multiple of a participant's salary based on years of credited service up to three years and is reduced beginning at age 61. There is also a post-retirement death benefit which, in the 1st year of retirement, is equal to 50% of the pre-retirement death benefit amount, whichever is greater, 25% the 2nd year and 10% of the death benefit payable at age 60 for the 3rd and later years. For the Police 20 Year Retirement Program, the death benefit is payable after ninety days of credited MTA Police service, and is equal to three times their salary. For non-Police groups, this death benefit is payable in a lump sum distribution while for Police, the member or the beneficiary can elect to have it paid as an annuity. The MTA Police do not have a post retirement benefit.

In the MSBA Employees' Pension Plan, there are special spousal benefits payable upon the death of a participant who is eligible for an early retirement benefit, or a normal service retirement benefit, or who is a vested participant or vested former participant. To be eligible, the spouse and participant must have been married at least one year at the time of death. Where the participant was eligible for an early service retirement benefit or was a vested participant or former participant, the benefit is a pension equal to 40% of the benefit payable to the participant as if the participant retired on the date of death. Where the participant was eligible for a normal service retirement benefit, the eligible spouse can elect either the benefit payable as a pension, as described in the prior sentence, or a lump sum payment based on an actuarially determined pension reserve. If there is no eligible spouse for this pension reserve benefit, a benefit is payable to the participant's beneficiary or estate.

Moreover, an accidental death benefit is payable for the death of a participant who is a covered MTA Metro-North Railroad or post-1987 MTA Long Island Rail Road employee, a covered MTA Staten Island Railway employee or a covered MTA Police member and dies as the result of an on-the-job accidental injury. This death benefit is paid as a pension equal to 50% of the participant's salary and is payable to the spouse for life, or, if none, to children until age eighteen (or twenty-three, if a student), or if none, to a dependent parent.

For MTA Bus employees, there is varied death benefit coverage under the Plan. For all represented and non-represented MTA Bus employees at Eastchester and Yonkers Depots and represented MTA Bus employees at Baisley Park, College Point, Far Rockaway, JFK, Laguardia and Spring Creek Depots, if a participant dies prior to being eligible for a retirement benefit, the participant's beneficiary may elect to receive a refund of the participant's contributions plus interest.

Moreover, the spouses of the above employees who are vested are entitled to a presumed retirement survivor annuity which is based on a 50% Joint and Survivor annuity. The date as of which such annuity is determined and on which it commences varies among the different programs depending on whether the participants are eligible for retirement and for payment of retirement benefits.

In addition, the spouse of a non-represented MTA Bus employee at Spring Creek, JFK, Laguardia, Baisley Park and Far Rockaway, if such employee is age 55 and has 15 years of service and is a terminated member with a vested benefit which is not yet payable, may elect the presumed retirement survivor annuity or 1/2 the participant's accrued benefit paid monthly and terminating on the 60th payment or the spouse's death. The spouse of a non-represented MTA Bus employee at Yonkers Depot may also receive a pre-retirement survivor annuity from the supplemental plan. If there is no such spouse, the actuarial equivalent of such annuity is payable.

Dependent children of MTA Bus employees are also entitled to an annuity based on the spouse's pre-retirement survivor annuity (1/2 of the spouse's annuity is payable to each child, but no more than 100% of the spouse's annuity is payable). In addition, the dependent children of retirees who were MTA Bus employees at these Depots are entitled to an annuity based on the presumed retirement survivor's annuity (25% of the spouse's annuity; but no more than 50% of the spouse's annuity is payable).

Retirement benefits establishment and changes for represented employees are collectively bargained and must be ratified by the respective union and the MTA Board. For non represented employees, retirement benefits establishment and changes are presented to the MTA Board and must be accepted and approved by the MTA Board.

# 5. NYCERS—

NYCERS provides three main types of retirement benefits: Service Retirements, Ordinary Disability Retirements (non-job-related disabilities) and Accident Disability Retirements (job-related disabilities) to participants generally based on salary, length of service, and member Tiers.

The Service Retirement benefits provided to Tier 1 participants fall into four categories according to the level of benefits provided and the years of service required. Three of the four categories provide annual benefits of 50% to 55% of final salary after 20 or 25 years of service, with additional benefits equal to a specified percentage per year of service (currently 1.2% to 1.7%) of final salary. The fourth category has no minimum service requirement and instead provides an annual benefit for each year of service equal to a specified percentage (currently 0.7% to 1.53%) of final salary.



Tier 2 participants have provisions similar to Tier 1, except that the eligibility for retirement and the salary base for benefits are different and there is a limitation on the maximum benefit.

Tier 3 participants were later mandated into Tier 4, but could retain their Tier 3 rights. The benefits for Tier 3 participants are reduced by one half of the primary Social Security benefit attributable to service, and provides for an automatic annual cost-of-living escalator in pension benefits of not more than 3.0%.

Tier 4 participants upon satisfying applicable eligibility requirements may be mandated or elected, as applicable, into the Basic 62/5 Retirement Plan, the 57/5 Plan, the 55/25 Plan, the Transit 55/25 Plan, the MTA Triborough Bridge and Tunnel Authority 50/20 Plan, and the Automotive Member 25/50 Plan. These plans provide annual benefits of 40% to 50% of final salary after 20 or 25 years of service, with additional benefits equal to a specified percentage per year of service (currently 1.5% to 2%) of final salary.

Chapter 18 of the Laws of 2012 created Tier 6. These changes increase the retirement age to 63, require member contributions for all years of service, institute progressive member contributions, and lengthen the final average salary period from 3 to 5 years.

NYCERS also provides automatic Cost-of-Living Adjustments ("COLA") for certain retirees and beneficiaries, death benefits; and certain retirees also receive supplemental benefits. Subject to certain conditions, members generally become fully vested as to benefits upon the completion of 5 years of service.

#### 6. NYSLERS —

NYSLERS provides retirement benefits as well as death and disability benefits. Members who joined prior to January 1, 2010 need 5 years of service to be fully vested. Members who joined on or after January 1, 2010 need 10 years of service to be fully vested.

#### Tiers 1 and 2 —

Eligibility: Tier 1 members generally must be at least age 55 to be eligible for a retirement benefit. There is no minimum service requirement for Tier 1 members. Generally, Tier 2 members must have 5 years of service and be at least age 55 to be eligible for a retirement benefit. The age at which full benefits may be collected for Tier 1 is 55, and the full benefit age for Tier 2 is 62.

Benefit Calculation: Generally, the benefit is 1.67% of final average salary for each year of service if the member retires with less than 20 years. If the member retires with 20 or more years of service, the benefit is 2 percent of final average salary for each year of service. Tier 2 members with five or more years of service can retire as early as age 55 with reduced benefits. Tier 2 members age 55 or older with 30 or more years of service can retire with no reduction in benefits. As a result of Article 19 of the RSSL, Tier 1 and Tier 2 members who worked continuously from April 1, 1999 through October 1, 2000 received an additional month of service credit for each year of credited service they have at retirement, up to a maximum of 24 additional months. Final average salary is the average of the wages earned in the three highest consecutive years of employment. For Tier 1 members who joined on or after June 17, 1971, each year's compensation used in the final average salary calculation is limited to no more than 20 percent greater than the previous year. For Tier 2 members, each year of final average salary is limited to no more than 20 percent greater than the average of the previous two years.

#### Tiers 3, 4, and 5 —

*Eligibility:* Most Tier 3 and 4 members must have 5 years of service and be at least age 55 to be eligible for a retirement benefit. Tier 5 members, must have 10 years of service and be at least age 55 to be eligible to collect a retirement benefit. The full benefit age for Tiers 3, 4 and 5 is 62.

Benefit Calculation: Generally, the benefit is 1.67% of final average salary for each year of service if the member retires with less than 20 years. If a member retires with between 20 and 30 years of service, the benefit is 2 percent of final average salary for each year of service. If a member retires with more than 30 years of service, an additional benefit of 1.5% of final average salary is applied for each year of service over 30 years. Tier 3 and 4 members with five or more years of service and Tier 5 members with 10 or more years of service can retire as early as age 55 with reduced benefits. Tier 3 and 4 members age 55 or older with 30 or more years of service can retire with no reduction in benefits. Final average salary is the average of the wages earned in the three highest consecutive years of employment. For Tier 3, 4 and 5 members, each year's compensation used in the final average salary calculation is limited to no more than 10% greater than the average of the previous two years.

#### *Tier 6* —

*Eligibility:* Generally, Tier 6 members must have 10 years of service and be at least age 55 to be eligible to collect a retirement benefit. The full benefit age for Tier 6 is 63.



Benefit Calculation: Generally, the benefit is 1.67% of final average salary for each year of service if the member retires with less than 20 years. If a member retires with 20 years of service, the benefit is 1.75% of final average salary for each year of service. If a member retires with more than 20 years of service, an additional benefit of 2% of final average salary is applied for each year of service over 20 years. Tier 6 members with 10 or more years of service can retire as early as age 55 with reduced benefits. Final average salary is the average of the wages earned in the five highest consecutive years of employment. For Tier 6 members, each year's compensation used in the final average salary calculation is limited to no more than 10% greater than the average of the previous four years.

Disability Benefits— Generally, disability retirement benefits are available to members unable to perform their job duties because of permanent physical or mental incapacity. There are three general types of disability benefits: ordinary, performance of duty, and accidental disability benefits. Eligibility, benefit amounts, and other rules such as any offsets of other benefits depend on a member's tier, years of service, and plan. Ordinary disability benefits, usually one-third of salary, are provided to eligible members after ten years of service; in some cases, they are provided after five years of service. For all eligible Tier 1 and Tier 2 members, the accidental disability benefit is a pension of 75 percent of final average salary, with an offset for any Workers' Compensation benefits received. The benefit for eligible Tier 3, 4, 5 and 6 members is the ordinary disability benefit with the years-of-service eligibility requirement dropped.

Ordinary Death Benefits — Death benefits are payable upon the death, before retirement, of a member who meets eligibility requirements as set forth by law. The first \$50,000 (whole dollars) of an ordinary death benefit is paid in the form of group term life insurance. The benefit is generally three times the member's annual salary. For most members, there is also a reduced post-retirement ordinary death benefit available.

Post-Retirement Benefit Increases — A cost-of-living adjustment is provided annually to: (i) all pensioners who have attained age 62 and have been retired for five years; (ii) all pensioners who have attained age 55 and have been retired for ten years; (iii) all disability pensioners, regardless of age, who have been retired for five years; (iv) recipients of an accidental death benefit, regardless of age, who have been receiving such benefit for five years and (v) the spouse of a deceased retiree receiving a lifetime benefit under an option elected by the retiree at retirement. An eligible spouse is entitled to one-half the cost-of-living adjustment amount that would have been paid to the retiree when the retiree would have met the eligibility criteria. This cost-of-living adjustment is a percentage of the annual retirement benefit of the eligible member as computed on a base benefit amount not to exceed \$18,000 (whole dollars) of the annual retirement benefit. The cost-of-living percentage shall be 50 percent of the annual Consumer Price Index as published by the U.S. Bureau of Labor, but cannot be less than 1 percent or exceed 3 percent.

#### **Membership**

Membership at:

As of January 1, 2018, January 1, 2017 and January 1, 2016, the dates of the most recent actuarial valuations, membership data for the following pension plans are as follows:

January 1 2017

January 1 2018

Membership at:	January 1, 2018	January 1, 2017			
	MNR Cash Balance Plan	Additional Plan	MaBSTOA Plan	MTA Defined Benefit Plan	TOTAL
Active Plan Members	2	146	8,739	18,048	26,935
Retirees and beneficiaries receiving benefits	26	5,833	5,523	10,861	22,243
C	20	3,833	3,323	10,801	22,243
Vested formerly active members not yet receiving benefits	15	28	1,006	1,433	2,482
Total	43	6,007	15,268	30,342	51,660
		January 1, 2016			
Membership at:	January 1, 2017	J	anuary 1, 2016	)	
Membership at:	MNR Cash	Additional	MaBSTOA	MTA Defined	ТОТАІ
•	MNR Cash Balance Plan	Additional Plan	MaBSTOA Plan	MTA Defined Benefit Plan	TOTAL
Active Plan Members	MNR Cash	Additional	MaBSTOA	MTA Defined	TOTAL 26,507
•	MNR Cash Balance Plan	Additional Plan	MaBSTOA Plan	MTA Defined Benefit Plan	
Active Plan Members Retirees and beneficiaries	MNR Cash Balance Plan	Additional Plan 216	MaBSTOA Plan 8,617	MTA Defined Benefit Plan 17,670	26,507
Active Plan Members Retirees and beneficiaries receiving benefits	MNR Cash Balance Plan	Additional Plan 216	MaBSTOA Plan 8,617	MTA Defined Benefit Plan 17,670	26,507
Active Plan Members Retirees and beneficiaries receiving benefits Vested formerly active members	MNR Cash Balance Plan 4	Additional Plan 216 5,900	MaBSTOA Plan 8,617 5,468	MTA Defined Benefit Plan 17,670	26,507 22,096



# Contributions and Funding Policy

#### 1. Additional Plan —

Employer contributions are actuarially determined on an annual basis and are recognized when due. The Additional Plan is a defined benefit plan administered by the Board of Pension Managers and is a governmental plan and accordingly, is not subject to the funding and other requirements of ERISA.

Upon termination of employment before retirement, vested participants who have been required to contribute must choose to: (1) receive a refund of their own contributions, including accumulated interest at rates established by the MTA Long Island Rail Road's Board of Managers of Pensions (1.5% in 2017 and 2016), or (2) leave their contributions in the Additional Plan until they retire and become entitled to the pension benefits. Non-vested participants who have been required to contribute will receive a refund of their own contributions, including accumulated interest at rates established by the MTA Long Island Rail Road's Board of Managers of Pensions (1.5% in 2017 and 2016).

Funding for the Additional Plan by the MTA Long Island Rail Road is provided by MTA. Certain funding by MTA is made to the MTA Long Island Rail Road on a discretionary basis. The continuance of the MTA Long Island Rail Road's funding for the Additional Plan has been, and will continue to be, dependent upon the receipt of adequate funds.

# 2. MaBSTOA Plan —

The contribution requirements of MaBSTOA Plan members are established and may be amended only by the MaBSTOA Board in accordance with Article 10.01 of the MaBSTOA Plan. MaBSTOA's funding policy for periodic employer contributions is to provide for actuarially determined amounts that are designed to accumulate sufficient assets to pay benefits when due. It is MaBSTOA's policy to fund, at a minimum, the current year's normal pension cost plus amortization of the unfunded actuarial accrued liability.

The MaBSTOA Pension Plan includes the following plans, including the 2000 amendments which are all under the same terms and conditions as NYCERS:

- i. Tier 1 and 2 Basic Plans;
- ii. Tier 3 and 4 55 and 25 Plan;
- iii. Tier 3 and 4 Regular 62 and 5 Plan;
- iv. Tier 4 57 and 5 Plan
- v. Tier 6 55 and 25 Special Plan
- vi. Tier 6 Basic 63 and 10 Plan

For employees, the MaBSTOA Plan has both contributory and noncontributory requirements depending on the date of entry into service. Employees entering qualifying service on or before July 26, 1976, are non contributing (Tiers 1 and 2). Certain employees entering qualifying service on or after July 27, 1976, are required to contribute 3% of their salary (Tiers 3 and 4).

In March 2012, pursuant to Chapter 18 of the Laws of 2012, individuals joining NYCERS or the MaBSTOA Pension Plan on or after April 1, 2012 are subject to the provisions of Tier 6. The highlights of Tier 6 include:

- Increases in employee contribution rates. The rate varies depending on salary, ranging from 3% to 6% of gross wages. Contributions are made until retirement or separation from service.
- The retirement age increases to 63 and includes early retirement penalties, which reduce pension allowances by 6.5 percent for each year of retirement prior to age 63.
- Vesting after 10 years of credited service; increased from 5 years of credited service under Tier 3 and Tier 4.
- Adjustments of the Pension Multiplier for calculating pension benefits (excluding Transit Operating Employees): the multiplier will be 1.75% for the first 20 years of service, and 2% starting in the 21st year; for an employee who works 30 years, their pension will be 55% of Final Average Salary under Tier 4, instead of 60% percent under Tier 4.
- Adjustments to the Final Average Salary Calculation; the computation changed from an average of the final 3 years to an average of the final 5 years. Pensionable overtime will be capped at \$15,000 dollars per year plus an inflation factor.
- Pension buyback in Tier 6 will be at a rate of 6% of the wages earned during the period of buyback, plus 5% compounded annually from the date of service until date of payment.



Pursuant to Section 7.03 of the MaBSTOA Plan, active plan members are permitted to borrow up to 75% of their contributions with interest. Their total contributions and interest remain intact and interest continues to accrue on the full balance. The participant's accumulated contribution account is used as collateral against the loan.

## 3. MNR Cash Balance Plan —

Funding for the MNR Cash Balance Plan is provided by MTA Metro-North Railroad, a public benefit corporation that receives funding for its operations and capital needs from the MTA and the Connecticut Department of Transportation ("CDOT"). Certain funding by MTA is made to the MTA Metro-North Railroad on a discretionary basis. The continuance of funding for the MNR Cash Balance Plan has been, and will continue to be, dependent upon the receipt of adequate funds.

MTA Metro-North Railroad's funding policy with respect to the MNR Cash Balance Plan was to contribute the full amount of the pension benefit obligation ("PBO") of approximately \$2,977 (in thousands) to the trust fund in 1989. As participants retire, the Trustee has made distributions from the MNR Cash Balance Plan. MTA Metro-North Railroad anticipated that no further contributions would be made to the MNR Cash Balance Plan. However, due to changes in actuarial assumptions and market performance, additional contributions were made to the MNR Cash Balance Plan in several subsequent years.

# 4. MTA Defined Benefit Plan —

Employer contributions are actuarially determined on an annual basis. Amounts recognized as receivables for contributions include only those due pursuant to legal requirements. Employee contributions to the MTA Defined Benefit Plan are recognized in the period in which the contributions are due. There are no contributions required under the Metropolitan Suburban Bus Authority Employee's Pension Plan.

The following summarizes the employee contributions made to the MTA Defined Benefit Plan:

Effective January 1, 1994, covered MTA Metro-North Railroad and MTA Long Island Rail Road non-represented employees are required to contribute to the MTA Plan to the extent that their Railroad Retirement Tier II employee contribution is less than the pre-tax cost of the 3% employee contributions. Effective October 1, 2000, employee contributions, if any, were eliminated after ten years of making contributions to the MTA Plan. MTA Metro-North Railroad employees may purchase prior service from January 1, 1983 through December 31, 1993 and MTA Long Island Rail Road employees may purchase prior service from January 1, 1988 through December 31, 1993 by paying the contributions that would have been required of that employee for the years in question, calculated as described in the first sentence, had the MTA Plan been in effect for those years.

Police Officers who become participants of the MTA Police Program prior to January 9, 2010 contribute to that program at various rates. Police Officers who become participants on or after January 9, 2010, but before April 1, 2012 contribute 3% up to the completion of 30 years of service, the maximum amount of service credit allowed. Police Officers who become participants on or after April 1, 2012 contribute 3%, with additional new rates starting April 2013, ranging from 3.5%, 4.5%, 5.75%, to 6%, depending on salary level, for their remaining years of service.

Covered MTA Metro-North Railroad represented employees and MTA Long Island Rail Road represented employees who first became eligible to be MTA Plan participants prior to January 30, 2008 contribute 3% of salary. MTA Staten Island Railway employees contribute 3% of salary except for represented employees hired on or after June 1, 2010 who contribute 4%. MTA Long Island Rail Road represented employees who became participants after January 30, 2008 contribute 4% of salary. For the MTA Staten Island Railway employees, contributions are not required after the completion of ten years of credited service. MTA Long Island Rail Road represented employees are required to make the employee contributions for ten years, or fifteen years if hired after certain dates in 2014 as per collective bargaining agreements. Certain Metro-North represented employees, depending on their collective bargaining agreements, are required to make the employee contributions until January 1, 2014, January 1, 2017, June 30, 2017, or the completion of required years of credited service as per the relevant collective bargaining agreements.

Covered MTA Bus represented employees and certain non-represented employees are required to contribute a fixed dollar amount, which varies, by depot. Currently, non-represented employees at certain Depots, contribute \$21.50 (whole dollars) per week. Non-represented employees at Eastchester hired prior to 2007 contribute \$25 (whole dollars) per week. Represented employees at Baisley Park, College Point, Eastchester, Far Rockaway, JFK, LaGuardia and Yonkers Depots contribute \$29.06 (whole dollars) per week; Spring Creek represented employees contribute \$32.00 (whole dollars) per week. Certain limited number of represented employees promoted prior to the resolution of a bargaining impasse continue to participate in the MTA Defined Benefit Plan that was in effect before their promotion. Certain MTA Bus non-represented employees who are formerly employed by the private bus companies (Jamaica, Green, Triboro and Command) at Baisley Park, Far Rockaway, JFK, LaGuardia and Spring Creek Depots who are in the pension program covering only such employees make no contributions to the program. (Note: the dollar figures



in this paragraph are in dollars, not in millions of dollars).

#### 5. NYCERS—

NYCERS funding policy is to contribute statutorily-required contributions ("Statutory Contributions"), determined by the Chief Actuary for the New York City Retirement Systems, in accordance with State statutes and City laws, and are generally funded by employers within the appropriate Fiscal Year. The Statutory Contributions are determined under the One-Year Lag Methodology ("OYLM"). Under OYLM, the actuarial valuation date is used for calculating the Employer Contributions for the second following Fiscal Year. Statutory Contributions are determined annually to be an amount that, together with member contributions and investment income, provides for NYCERS' assets to be sufficient to pay benefits when due.

Member contributions are established by law. NYCERS has both contributory and noncontributory requirements, with retirement age varying from 55 to 70 depending upon when an employee last entered qualifying service.

In general, Tier 1 and Tier 2 member contribution rates are dependent upon the employee's age at membership and retirement plan election. In general, Tier 3 and Tier 4 members make basic contributions of 3.0% of salary, regardless of age at membership. Effective October 1, 2000, in accordance with Chapter 126 of the Laws of 2000, these members, except for certain Transit Authority employees enrolled in the Transit 20-Year Plan, are not required to make basic contributions after the 10th anniversary of their membership date or completion of ten years of credited service, whichever is earlier. In addition, members who meet certain eligibility requirements will receive one month's additional service credit for each completed year of service up to a maximum of two additional years of service credit. Effective December 2000, certain Transit Authority Tier 3 and Tier 4 members make basic member contributions of 2.0% of salary, in accordance with Chapter 10 of the Laws of 2000. Certain Tier 2, Tier 3 and Tier 4 members who are participants in special retirement plans are required to make additional member contributions of 1.85%, in addition to their base membership contribution. Tier 6 members are mandated to contribute between 3.0% and 6.0% of salary, depending on salary level, until they separate from City service or until they retire.

NYCERS established a "special program" for employees hired on or after July 26, 1976. A plan for employees, who have worked 20 years, and reached age 50, is provided to Bridge and Tunnel Officers, Sergeants and Lieutenants and Maintainers. Also, an age 57 retirement plan is available for all other such MTA Bridges and Tunnels employees. Both these plans required increased employee contributions.

Certain retirees also receive supplemental benefits from MTA Bridges and Tunnels. Certain participants are permitted to borrow up to 75% of their own contributions including accumulated interest. These loans are accounted for as reductions in such participants' contribution accounts. Upon termination of employment before retirement, certain members are entitled to refunds of their own contributions, including accumulated interest, less any outstanding loan balances.

MTA New York City Transit and MTA Bridges and Tunnels are required to contribute at an actuarially determined rate. The contribution requirements of plans members, MTA New York City Transit and MTA Bridges and Tunnels are established and amended by law.

#### 6. NYSLERS—

*Employer Contributions* - Under the authority of the RSSL, the Comptroller annually certifies the actuarially determined rates expressly used in computing the employers' contributions based on salaries paid during the NYSLERS fiscal year ending June 30.

Member Contributions - NYSLERS is noncontributory except for employers who joined the plan after July 27, 1976. Generally, Tier 3, 4, and 5 members must contribute 3% of their salary to NYSLERS. As a result of Article 19 of the RSSL, eligible Tier 3 and 4 employees, with a membership date on or after July 27, 1976, who have ten or more years of membership or credited service with NYSLERS, are not required to contribute. Members cannot be required to begin making contributions or to make increased contributions beyond what was required when membership began. For Tier 6 members, the contribution rate varies from 3% to 6% depending on salary. Generally, Tier 5 and 6 members are required to contribute for all years of service.

MTAHQ, MTA Capital Construction and MTA Long Island Bus are required to contribute at an actuarially determined rate.



A summary of the aggregate actual contributions made to each pension plan for the years ended December 31, 2018 and 2017 are as follows:

Year-ended December 31,	2	2018		2017
(\$ in millions)		Actual Employer Contributions		Employer ributions
Additional Plan	\$	59.5	\$	221.5
MaBSTOA Plan		205.4		202.7
MNR Cash Balance Plan		- *		_ *
MTA Defined Benefit Plan		339.8		321.9
NYCERS		807.1		800.9
NYSLERS		14.5		14.0
Total	\$	1,426.3	\$	1,561.0

<sup>\*</sup>MNR Cash Balance Plan's actual employer contribution for the years ended December 31, 2018 and 2017 was \$5 thousand and \$0 thousand, respectively.

# **Net Pension Liability**

The MTA's net pension liabilities for each of the pension plans reported at December 31, 2018 and 2017 were measured as of the fiscal year-end dates for each respective pension plan. The total pension liabilities used to calculate those net pension liabilities were determined by actuarial valuations as of each pension plan's valuation date, and rolled forward to the respective year-ends for each pension plan. Information about the fiduciary net position of each qualified pension plan's fiduciary net position has been determined on the same basis as reported by each respective qualified pension plan. For this purpose, benefits and refunds are recognized when due and payable in accordance with the terms of the respective qualified pension plan, and investments are reported at fair value. The following table provides the measurement and valuation dates used by each pension plan to calculate the MTA's aggregate net pension liability.

Pension Plan	Plan Measurement Date	Plan Valuation Date	Plan Measurement Date	Plan Valuation Date
Additional Plan	December 31, 2017	January 1, 2017	December 31, 2016	January 1, 2016
MaBSTOA Plan	December 31, 2017	January 1, 2017	December 31, 2016	January 1, 2016
MNR Cash Balance Plan	December 31, 2017	January 1, 2018	December 31, 2016	January 1, 2017
MTA Defined Benefit Plan	December 31, 2017	January 1, 2017	December 31, 2016	January 1, 2016
NYCERS	June 30, 2018	June 30, 2016	June 30, 2017	June 30, 2015
NYSLERS	March 31, 2018	April 1, 2017	March 31, 2017	April 1, 2016

# Pension Plan Fiduciary Net Position

Detailed information about the fiduciary net position of the Additional Plan, MaBSTOA Plan, MNR Cash Balance Plan, MTA Defined Benefit Plan, NYCERS plan and the NYSLERS plan is available in the separately issued pension plan financial reports for each respective plan.



# **Actuarial Assumptions**

The total pension liabilities in each pension plan's actuarial valuation dates were determined using the following actuarial assumptions for each pension plan, applied to all periods included in the measurement date:

	Additio	onal Plan	MaBST	OA Plan	MNR Cash	Balance Plan
Valuation Date:	January 1, 2017	January 1, 2016	January 1, 2017	January 1, 2016	January 1, 2018	January 1, 2017
Investment Rate of Return	7.00% per annum, net of investment expenses.	7.00% per annum, net of investment expenses.	7.00% per annum, net of investment expenses.	7.00% per annum, net of investment expenses.	4.00% per annum, net of investment expenses.	4.00% per annum, net of investment expenses.
Salary Increases	3.00%	3.00%	Reflecting general wage, merit and promotion increases of 3.5% for operating employees and 4.0% for non- operating employees per year. Larger increases are assumed in the first 5 years of a member's career.	Reflecting general wage, merit and promotion increases of 3.5% for operating employees and 4.0% for non- operating employees per year. Larger increases are assumed in the first 5 years of a member's career.	Not applicable	Not applicable
Inflation	2.50%; 3.50% for Railroad Retirement Wage Base.	2.50%; 3.50% for Railroad Retirement Wage Base.	2.50%.	2.50%.	2.50%	2.30%
Cost-of Living Adjustments	Not applicable	Not applicable	1.375% per annum.	1.375% per annum.	Not applicable	Not applicable
	MTA Define	d Benefit Plan	NYO	CERS	NYS	LERS
Valuation Date:	January 1, 2017	January 1, 2016	June 30, 2016	June 30, 2015	April 1, 2017	April 1, 2016
Investment Rate of Return	7.00% per annum, net of investment expenses.	7.00% per annum, net of investment expenses.	7.00% per annum, net of expenses.	7.00% per annum, net of expenses.	7.00% per annum, including inflation, net of investment expenses.	7.00% per annum, including inflation, net of investment expenses.
Salary Increases	Varies by years of employment, and employee group; 3.0% General Wage Increases for TWU Local 100 MTA Bus hourly employees.	Varies by years of employment, and employee group; 3.0% General Wage Increases for TWU Local 100 MTA Bus hourly employees.	In general, merit and promotion increases plus assumed General Wage increases of 3.0% per year.	In general, merit and promotion increases plus assumed General Wage increases of 3.0% per year.	3.8% in ERS, 4.5% in PFRS	3.8% in ERS, 4.5% in PFRS
Inflation	2.50%; 3.50% for Railroad Retirement Wage Base.	2.50%; 3.00% for Railroad Retirement Wage Base.	2.50%	2.50%	2.50%	2.50%
Cost-of Living Adjustments	55% of inflation assumption or 1.375%, if applicable.	55% of inflation assumption or 1.375%, if applicable.	1.5% per annum for Tiers 1, 2, 4 and certain Tier 3 and Tier 6 retirees. 2.5% per annum for certain Tier 3 and Tier 6 retirees.	1.5% per annum for Tiers 1, 2, 4 and certain Tier 3 and Tier 6 retirees. 2.5% per annum for certain Tier 3 and Tier 6 retirees.	1.30% per annum.	1.30% per annum.



## **Mortality**

#### Additional Plan / MaBSTOA Plan/ MNR Cash Balance Plan and MTA Defined Benefit Plan:

The actuarial assumptions used in the January 1, 2018, 2017, and 2016 valuations for the MTA plans are based on an experience study covering the period from January 1, 2006 to December 31, 2011. The mortality assumption used in the January 1, 2018 and January 1, 2017 valuations are based on an experience study for all MTA plans covering the period from January 1, 2011 to December 1, 2015. The mortality assumption used in the January 1, 2016 valuation is based on a 2012 experience study for all MTA plans. The pre-retirement and post-retirement healthy annuitant rates are projected on a generational basis using Scale AA, as recommended by the Society of Actuaries Retirement Plans Experience Committee. As generational tables, they reflect mortality improvements both before and after the measurement date.

<u>Pre-retirement</u>: The MTA plans utilized RP-2000 Employee Mortality Table for Males and Females with Blue collar adjustments.

<u>Post-retirement Healthy Lives</u>: Assumption utilized 95% of RP-2000 Healthy Annuitant mortality table for males with Blue Collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.

<u>Post-retirement Disabled Lives</u>: Assumption utilized in the January 1, 2017 valuation was the RP-2014 Disabled Annuitant mortality table for males and females. Assumption utilized in the January 1, 2016 valuation was the RP-2000 Disabled Annuitant mortality table for males and females. This assumption was not applicable for the Additional Plan and the MNR Cash Balance Plan.

#### **NYCERS:**

Pursuant to Section 96 of the New York City Charter, an independent actuarial firm conducts studies of the actuarial assumptions used to value liabilities of the NYCERS pension plan every two years. In accordance, with the Administrative Code of the City of New York ("ACNY"), the Board of Trustees of NYCERS are to periodically review and adopt actuarial assumptions as proposed by the Actuary for use in the determination of Employer Contributions.

Mortality tables for service and disability pensioners were developed from experience studies of the NYCERS Plan. The mortality tables for beneficiaries were developed from an experience review.

The actuarial assumptions used in the June 30, 2016 and June 30, 2015 valuations are based, in part, on the Gabriel, Roeder, Smith & Company ("GRS") report, on published studies of mortality improvement, and on input from the NYC's outside consultants and auditors, the Actuary proposed, and the Board of Trustees of NYCERS adopted, new post-retirement mortality tables for use in determining employer contributions beginning in Fiscal Year 2016. The new tables of post-retirement are based primarily on the experience of NYCERS and the application of the Mortality Improvement Scale MP-2015, published by the Society of Actuaries in October 2015. Scale MP-2015 replaced Mortality Improvement Scale AA.

#### **NYSLERS:**

The actuarial assumptions used in the April 1, 2017 and April 1, 2016 valuations are based on the results of an actuarial experience study for the period April 1, 2010 through March 31, 2015. The annuitant mortality rates are based on the results of the 2015 experience study of the period April 1, 2010 through March 31, 2015, with adjustments for mortality improvement based on the Society of Actuaries' Scale MP-2014.

# Expected Rate of Return on Investments

The long-term expected rate of return on pension plan investments for each pension plan is presented in the following table.

Pension Plan	<b>Plan Measurement Date</b>	Rate
Additional Plan	December 31, 2017	7.00%
MaBSTOA Plan	December 31, 2017	7.00%
MNR Cash Balance Plan	December 31, 2017	4.00%
MTA Defined Benefit Plan	December 31, 2017	7.00%
NYCERS	June 30, 2018	7.00%
NYSLERS	March 31, 2018	7.00%



For the Additional Plan, MaBSTOA Plan, MNR Cash Balance Plan, MTA Defined Benefit Plan, NYCERS plan and NYSLERS plan, the long-term expected rate of return on investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation.

The target asset allocation of each of the funds and the expected real rate of returns ("RROR") for each of the asset classes are summarized in the following tables for each of the pension plans:

	Additional Plan		MaBSTOA Plan		
		Long - Term Expected		Long - Term Expected	
	Target Asset	Real Rate of	Target Asset	Real Rate of	
Asset Class	Allocation	Return	Allocation	Return	
US Core Fixed Income	10.00%	1.96%	10.00%	1.96%	
US High Yield Bonds	8.00%	4.62%	8.00%	4.62%	
Global Bonds	10.00%	0.34%	10.00%	0.34%	
Emerging Markets Bonds	3.00%	3.30%	3.00%	3.30%	
US Large Caps	10.00%	4.31%	10.00%	4.31%	
US Small Caps	5.50%	5.57%	5.50%	5.57%	
Global Equity	10.00%	4.99%	10.00%	4.99%	
Foreign Developed Equity	10.00%	5.57%	10.00%	5.57%	
Emerging Markets Equity	3.50%	7.91%	3.50%	7.91%	
Global REITs	5.00%	5.62%	5.00%	5.62%	
Private Real Estate Property	3.00%	3.64%	3.00%	3.64%	
Private Equity	7.00%	8.99%	7.00%	8.99%	
Hedge Funds - MultiStrategy	15.00%	3.35%	15.00%	3.35%	
	100.00%		100.00%		
Assumed Inflation - Mean		2.50%		2.50%	
Assumed Inflation - Standard Deviation		1.85%		1.85%	
Portfolio Nominal Mean Return		6.80%		6.80%	
Portfolio Standard Deviation		11.54%		11.54%	
Long Term Expected Rate of Return selected by MTA		7.00%		7.00%	

	MTA Defined Benefit Plan		MNR Cash Balance Plan		
Asset Class	Target Asset Allocation	Long - Term Expected Real Rate of Return	Target Asset Allocation	Long - Term Expected Real Rate of Return	
US Core Fixed Income	10.00%	1.96%	100.00%	1.41%	
US High Yield Bonds	8.00%	4.62%			
Global Bonds	10.00%	0.34%			
Emerging Markets Bonds	3.00%	3.30%			
US Large Caps	10.00%	4.31%			
US Small Caps	5.50%	5.57%			
Global Equity	10.00%	4.99%			
Foreign Developed Equity	10.00%	5.57%			
Emerging Markets Equity	3.50%	7.91%			
Global REITs	5.00%	5.62%			
Private Real Estate Property	3.00%	3.64%			
Private Equity	7.00%	8.99%			
Hedge Funds - MultiStrategy	15.00%	3.35%			
	100.00%		100.00%		
Assumed Inflation - Mean		2.50%		2.50%	
Assumed Inflation - Standard Deviation		1.85%		1.85%	
Portfolio Nominal Mean Return		6.80%		3.92%	
Portfolio Standard Deviation		11.54%		4.55%	
Long Term Expected Rate of Return selected by MTA		7.00%		4.00%	



	NYC	ERS	NYSLERS					
	Target Asset	Long - Term Expected Real	Target Asset	Long - Term Expected Real				
Asset Class	Allocation	Rate of Return	Allocation	Rate of Return				
U.S. Public Market Equities	29.00%	6.30%	36.00%	4.55%				
International Public Market Equities	13.00%	7.00%	14.00%	6.35%				
Emerging Public Market Equities	7.00%	9.50%	0.00%	0.00%				
Private Market Equities	7.00%	10.40%	10.00%	7.50%				
Fixed Income	33.00%	2.20%	17.00%	1.31%				
Alternatives (Real Assets, Hedge Funds)	11.00%	5.50%	3.00%	5.29%				
Real Estate			10.00%	5.55%				
Absolute Return Strategies			2.00%	3.75%				
Opportunistic Portfolio			3.00%	5.68%				
Cash			1.00%	-0.25%				
Inflation-indexed Bonds			4.00%	1.25%				
	100.00%		100.00%					
Assumed Inflation - Mean		2.50%		2.50%				
Long Term Expected Rate of Return		7.00%		7.00%				

# Discount rate

The discount rate used to measure the total pension liability of each pension plan is presented in the following table:

		Discou	ınt Rate	
Year ended December 31,	2018		2017	
	Plan Measurement	_	Plan Measurement	_
Pension Plan	Date	Rate	Date	Rate
Additional Plan	December 31, 2017	7.00%	December 31, 2016	7.00%
MaBSTOA Plan	December 31, 2017	7.00%	December 31, 2016	7.00%
MNR Cash Balance Plan	December 31, 2017	4.00%	December 31, 2016	4.00%
MTA Defined Benefit Plan	December 31, 2017	7.00%	December 31, 2016	7.00%
NYCERS	June 30, 2018	7.00%	June 30, 2017	7.00%
NYSLERS	March 31, 2018	7.00%	March 31, 2017	7.00%

The projection of cash flows used to determine the discount rate assumed that employee contributions will be made at the rates applicable for each pension plan and that employer contributions will be made at the rates determined by each pension plan's actuary. Based on those assumptions, each pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current and inactive plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.



# Changes in Net Pension Liability – Additional Plan, MaBSTOA Plan, MNR Cash Balance Plan and the MTA Defined Benefit Plan

Changes in the MTA's net pension liability for the Additional Plan, MaBSTOA Plan, MNR Cash Balance Plan and the MTA Defined Benefit Plan for the year ended December 31, 2018, based on the December 31, 2017 measurement date, and for the year ended December 31, 2017, based on the December 31, 2016 measurement date, were as follows:

	A	dditional Pla	n	MaBSTOA Plan					
	Total	Plan	Net	Total	Plan	Net			
	Pension	Fiduciary	Pension	Pension	Fiduciary	Pension			
		Net			Net				
	Liability	Position	Liability	Liability	Position	Liability			
			(in tho	usands)					
Balance as of December 31, 2016	\$ 1,526,304	\$ 777,217	\$ 749,087	\$ 3,536,747	\$ 2,555,735	\$ 981,012			
Changes for fiscal year 2017:									
Service Cost	1,874	-	1,874	84,394	-	84,394			
Interest on total pension liability	101,477	-	101,477	246,284	-	246,284			
Effect of economic /demographic									
(gains) or losses	1,890	-	1,890	11,826	-	11,826			
Effect of assumption changes or									
inputs	-			6,347	-	6,347			
Benefit payments	(159,717)	(159,717)	-	(209,122)	(209,122)	-			
Administrative expense	-	(1,070)	1,070	-	(207)	207			
Member contributions	-	760	(760)	-	19,713	(19,713)			
Net investment income	-	112,614	(112,614)	-	350,186	(350,186)			
Nonemployer contributions	-	145,000	(145,000)	-	-	-			
Employer contributions		76,523	(76,523)		202,684	(202,684)			
Balance as of December 31, 2017	\$ 1,471,828	\$ 951,327	\$ 520,501	\$ 3,676,476	\$ 2,918,989	\$ 757,487			

	A	ddi	itional Plai	n		MaBSTOA Plan					
	Total		Plan		Net	Total	Plan	Net			
	Pension	Pension Fiduciary			Pension	Pension	Fiduciary	Pension			
			Net				Net				
	_Liability	I	Position	_I	Liability	_Liability	Position	_Liability_			
					(in thou	isands)					
Balance as of December 31, 2015	\$ 1,562,251	\$	726,198	\$	836,053	\$ 3,391,989	\$ 2,292,316	\$ 1,099,673			
Changes for fiscal year 2016:											
Service Cost	2,752		-		2,752	82,075	-	82,075			
Interest on total pension liability	104,093		-		104,093	236,722	-	236,722			
Effect of economic /demographic											
(gains) or losses	15,801		-		15,801	13,784	-	13,784			
Benefit payments	(158,593)		(158,593)		-	(187,823)	(187,823)	-			
Administrative expense	-		(611)		611	-	(186)	186			
Member contributions	-		884		(884)	-	18,472	(18,472)			
Net investment income	-		58,239		(58,239)	-	212,259	(212,259)			
Nonemployer contributions	-		70,000		(70,000)	-	-	-			
Employer contributions			81,100		(81,100)		220,697	(220,697)			
Balance as of December 31, 2016	\$ 1,526,304	\$	777,217	\$	749,087	\$ 3,536,747	\$ 2,555,735	\$ 981,012			



		MNR	Cash Ba	lance	Plan		MTA Defined Benefit Plan					
	To	tal	Plan Net			Net	Total	Plan	Net			
	Pen	sion	Fiducia	ary	Per	nsion	Pension	Fiduciary	Pension			
			Net					Net				
	Lial	<u>bility</u>	Positio	on	_Lia	bility	_Liability	Position	_Liability			
						(in thou	sands)					
Balance as of December 31, 2016	\$	566	\$	574	\$	(8)	\$ 4,761,877	\$ 3,419,971	\$ 1,341,906			
Changes for fiscal year 2017:												
Service Cost		-		-		-	148,051	-	148,051			
Interest on total pension liability		21		-		21	335,679	-	335,679			
Effect of plan changes		-		-		-	76,511	-	76,511			
Effect of economic / demographic												
(gains) or losses		12		-		12	(27,059)	-	(27,059)			
Effect of assumption changes or												
inputs		-		-		-	10,731	-	10,731			
Benefit payments		(71)		(71)		-	(232,976)	(232,976)	-			
Administrative expense		-		-		-	-	(4,502)	4,502			
Member contributions		-		-		-	-	31,027	(31,027)			
Net investment income		-		20		(20)	-	516,153	(516,153)			
Employer contributions				_				321,861	(321,861)			
Balance as of December 31, 2017	\$	528	\$	523	\$	5	\$ 5,072,814	\$ 4,051,534	\$ 1,021,280			

		MNR	Ca	sh Balance	ŀ	Plan	MTA Defined Benefit Plan						
	Т	otal	Plan Net				Total		Plan		Net		
	Pe	Pension 1		iduciary		Pension		Pension	F	iduciary		Pension	
			Net Position			Liability				Net			
	_Lia	bility						Liability	Position			Liability	
						(in thou	ısaı	nds)					
Balance as of December 31, 2015	\$	634	\$	612	\$	5 22	\$	4,364,946	\$	3,074,777	\$	1,290,169	
Changes for fiscal year 2016:													
Service Cost		-		-		-		138,215		-		138,215	
Interest on total pension liability		24		-		24		308,009		-		308,009	
Effect of plan changes		-		-		-		73,521		-		73,521	
Effect of economic / demographic													
(gains) or losses		(15)		-		(15)		86,809		-		86,809	
Benefit payments		(77)		(77)		-		(209,623)		(209,623)		-	
Administrative expense		-		-		-		-		(3,051)		3,051	
Member contributions		-		-		-		-		29,392		(29,392)	
Net investment income		-		16		(16)		-		247,708		(247,708)	
Employer contributions		-		23		(23)		-		280,768		(280,768)	
Balance as of December 31, 2016	\$	566	\$	574	\$	(8)	\$	4,761,877	\$	3,419,971	\$	1,341,906	



# Sensitivity of the Net Pension Liability to Changes in the Discount Rate

The following presents the MTA's net pension liability calculated for the Additional Plan, MaBSTOA Plan, MNR Cash Balance Plan and the MTA Defined Benefit Plan using the discount rate as of each measurement date, as well as what the net pension liability would be if it were calculated using a discount rate that is 1-percentage point lower or 1-percentage point higher than the actual discount rate used for each measurement date:

<b>Measurement Date:</b>	D	ecember 31, 20	17	De	016			
	1% Decrease (6.0%)	Discount Rate (7.0%)	1% Increase (8.0%)	1% Decrease (6.0%)	Discount Rate (7.0%)	1% Increase (8.0%)		
		(in thou	ısands)		(in thousands)			
Additional Plan	\$ 636,71	3 \$ 520,501	\$ 419,474	\$ 871,350	\$ 749,087	\$ 642,973		
MaBSTOA Plan	1,166,47	757,487	409,121	1,376,916	981,012	643,826		
MTA Defined Benefit Plan	1,648,21	5 1,021,280	492,284	1,936,639	1,341,906	840,176		
	1%	Discount		1%	Discount			
	Decrease	Rate	1% Increase	Decrease	Rate	1% Increase		
	(3.0%)	(4.0%)	(5.0%)	(3.0%)	(4.0%)	(5.0%)		
		(in whole	e dollars)		(in whol	le dollars)		
MNR Cash Balance Plan	\$ 35,10	\$ 5,235	\$ (21,154)	\$ 25,200	\$ (7,899)	\$ (37,092)		

# The MTA's Proportion of Net Pension Liability – NYCERS and NYSLERS

The following table presents the MTA's proportionate share of the net pension liability of NYCERS based on the June 30, 2016 and June 30, 2015 actuarial valuations, rolled forward to June 30, 2018 and June 30, 2017, respectively, and the proportion percentage of the aggregate net pension liability allocated to the MTA:

	N	NYCERS						
	June 30, 2018	June 30, 2018 June 30, 20						
	(\$ in thousands)							
MTA's proportion of the net pension liability	23.682	%	24.096%					
MTA's proportionate share of the net pension liability	\$ 4,176,941	\$	5,003,811					

The following table presents the MTA's proportionate share of the net pension liability of NYSLERS based on the April 1, 2017 and April 1, 2016 actuarial valuations, rolled forward to March 31, 2018 and March 31, 2017, respectively, and the proportion percentage of the aggregate net pension liability allocated to the MTA:

		NYSLERS					
	March 31,	March 31, 2018 March 3					
	(\$ in thousands)						
MTA's proportion of the net pension liability	0	.327%	0.311%				
MTA's proportionate share of the net pension liability	\$ 10	,553 \$	29,239				

The MTA's proportion of each respective Plan's net pension liability was based on the MTA's actual required contributions made to NYCERS for the plan's fiscal year-end June 30, 2018 and 2017 and to NYSLERS for the plan's fiscal year-end March 31, 2018 and 2017, relative to the contributions of all employers in each plan.



# Sensitivity of the MTA's Proportionate Share of the Net Pension Liability to Changes in the Discount Rate

The following presents the MTA's proportionate share of the net pension liability for NYCERS and NYSLERS calculated using the discount rate as of each measurement date, as well as what the proportionate share of the net pension liability would be if it were calculated using a discount rate that is 1-percentage point lower or 1-percentage point higher than the actual discount rate used as of each measurement date (\$ in thousands):

<b>Measurement Date:</b>	June 30, 2018							June 30, 2017						
	1% Decrease		Discount Rate			1% Increase		1% Decrease		Discount Rate		% Increase		
		(6.0%)	(7.0%) $(8.0%)$			(6.0%)	(7.0%)			(8.0%)				
NYCERS	\$	6,402,891	\$	4,176,941	\$	2,298,962	\$	7,231,780	\$	5,003,811	\$	3,046,531		
Measurement Date:			Ma	arch 31, 2018			March 31, 2017							
	1%	6 Decrease	D	iscount Rate	1	% Increase	19	6 Decrease	D	iscount Rate	1	% Increase		
		(6.0%)		(7.0%)		(8.0%)	(6.0%)		(7.0%)			(8.0%)		
NYSLERS	\$	79,847	\$	10,553	\$	(48,067)	\$	93,385	\$	29,239	\$	(24,995)		

# Pension Expense, Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

For the nine-month period ended September 30, 2019 and year ended December 31, 2018, the MTA recognized pension expense related to each pension plan as follows (in \$ thousands):

	S	eptember 30,	December 31,				
Pension Plan		2019		2018			
	J)	Jnaudited)					
Additional Plan	\$	44,775	\$	47,936			
MaBSTOA Plan		146,413		116,967			
MNR Cash Balance plan		-		16			
MTA Defined Benefit Plan		238,212		316,900			
NYCERS		594,456		510,157			
NYSLERS		10,876		13,885			
Total	\$	1,034,732	\$	1,005,861			



For the nine-month period ended September 30, 2019 and year ended December 31, 2018, the MTA reported deferred outflow of resources and deferred inflow of resources for each pension plan as follows (in \$ thousands):

For the Period Ended	Additional Plan				MaBSTO	ΟA	Plan	MNR Cash Ba	lance Plan		MTA Defined Benefit Plan			
<b>September 30, 2019</b>	De	ferred	Deferred		Deferred		Deferred	Deferred	Deferred		Deferred	Deferred		
(Unaudited)	Out	lows of	Inflows of	(	Outflows of		Inflows of	Outflows of	Inflows of		Outflows of	Inflows of		
	Res	ources	Resources	_	Resources		Resources	Resources	Resources		Resources	Resources		
Differences between expected and														
actual experience	\$	-	\$	- \$	19,549	\$	36,673	\$ - :	\$	- \$	141,294	\$ 23,748		
Changes in assumptions		-		-	5,370		-	-		-	9,406	46,880		
Net difference between projected and actual														
earnings on pension plan investments		-	22,499	)	-		83,734	16	:	2	-	112,897		
Changes in proportion and differences														
between contributions and proportionate														
share of contributions		-		-	-		-	-		-	50,989	50,989		
Employer contributions to the plan														
subsequent to the measurement														
of net pension liability		59,500			204,689	_		5			343,344			
Total	\$	59,500	\$ 22,499	<u>\$</u>	229,608	\$	120,407	\$ 21	\$	2 \$	545,033	\$ 234,514		

For the Period Ended	NYCERS				NYSLERS				TOTAL			
September 30, 2019	Deferre	ed	Deferre	d		Deferred	Ι	Deferred		Deferred	I	Deferred
(Unaudited)	Outflows	s of	Inflows	of	Outflows of		Inflows of		Outflows of		Inflows of	
	Resourc	ces	Resource	es	F	Resources	R	esources	F	Resources	R	esources
Differences between expected and												
actual experience	\$	-	\$ 403	3,424	\$	3,763	\$	3,110	\$	164,606	\$	466,955
Changes in assumptions	6	3,653		-		6,998		-		85,427		46,880
Net difference between projected and actual												
earnings on pension plan investments		-	234	1,268		-		14,927		16		468,327
Changes in proportion and differences												
between contributions and proportionate												
share of contributions	4	6,817	36	5,998		3,363		66		101,169		88,053
Employer contributions to the plan												
subsequent to the measurement												
of net pension liability	51	2,824				14,501				1,134,863		
Total	\$ 62	23,294	\$ 674	<del>1,690</del>	\$	28,625	\$	18,103	\$	1,486,081	\$	1,070,215



For the Year Ended		Addition	nal Plan		MaBSTO	)A	Plan	MNR Cash B	Balance Plan		MTA Defin	ed I	Benefit Plan
December 31, 2018	De	ferred	Deferred		Deferred		Deferred	Deferred	Deferred		Deferred		Deferred
	Out	lows of	Inflows of	(	Outflows of		Inflows of	Outflows of	Inflows of		Outflows of		Inflows of
	Res	ources	Resources		Resources	_	Resources	Resources	Resources		Resources		Resources
Differences between expected and													
actual experience	\$	-	\$ -	\$	19,549	\$	36,673	\$ -	\$	-	\$ 141,29	94	\$ 23,748
Changes in assumptions		-	-		5,370		-	-		-	9,40	)6	46,880
Net difference between projected and actual													
earnings on pension plan investments		-	22,499		-		83,734	16	:	2		-	112,897
Changes in proportion and differences													
between contributions and proportionate													
share of contributions		-	-		-		-	-		-	50,98	39	50,989
Employer contributions to the plan													
subsequent to the measurement													
of net pension liability		59,500			205,433		<u> </u>	5		_	339,80	00	_
Total	\$	59,500	\$ 22,499	\$	230,352	\$	120,407	\$ 21	\$	2	\$ 541,48	39	\$ 234,514

For the Year Ended		NYCERS			NYSLERS				TOTAL			
December 31, 2018	D	Deferred		Deferred		Deferred Deferr		Deferred	erred Deferred		Deferred	
	Ou	tflows of	Inflows of			Outflows of Inflows		Inflows of	Outflows of		Inflows of	
	Re	esources	F	Resources		Resources		Resources	F	Resources		Resources
Differences between expected and												
actual experience	\$	-	\$	403,424	\$	3,763	\$	3,110	\$	164,606	\$	466,955
Changes in assumptions		63,653		-		6,998		-		85,427		46,880
Net difference between projected and actual												
earnings on pension plan investments		-		234,268		-		14,927		16		468,327
Changes in proportion and differences												
between contributions and proportionate												
share of contributions		46,817		36,998		3,363		66		101,169		88,053
Employer contributions to the plan												
subsequent to the measurement												
of net pension liability		426,474		-		14,501		-		1,045,713		-
Total	\$	536,944	\$	674,690	\$	28,625	\$	18,103	\$	1,396,931	\$	1,070,215

The annual differences between the projected and actual earnings on investments are amortized over a five-year closed period beginning the year in which the difference occurs.

Changes in proportion



The following table presents the recognition periods used by each pension plan to amortize the annual differences between expected and actual experience, changes in proportion and differences between employer contributions and proportionate share of contributions, and changes in actuarial assumptions, beginning the year in which the deferred amount occurs.

Recognition Period (in years)	and differences between								
Pension Plan	Differences between expected and actual experience	employer contributions and proportionate share of contributions	Changes in actuarial assumptions						
Additional Plan	1.00	N/A	N/A						
MaBSTOA Plan	6.50	N/A	6.30						
MNR Cash Balance Plan	1.00	N/A	1.00						
MTA Defined Benefit Plan	8.10	8.10	8.10						
NYCERS	6.01	6.01	6.01						
NYSLERS	5.00	5.00	5.00						

For the nine-month period ended September 30, 2019 and year ended December 31, 2018, \$1,134.9 and \$1,045.7 were reported as deferred outflows of resources related to pensions resulting from the MTA's contributions subsequent to the measurement date which will be recognized as a reduction of the net pension liability in the year ending December 31, 2019 and December 31, 2018, respectively. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions at December 31, 2018 will be recognized as pension expense as follows:

	Ac	lditional Plan	M	aBSTOA Plan	INR Cash Balance plan		MTA Defined Benefit Plan	N	YCERS	NY	YSLERS	_	Total
Year Ending December 31:					(i	n t	housands)						
2019	\$	1,989	\$	(4,711)	\$ 5	\$	25,730	\$	29,753	\$	3,386	\$	56,152
2020		(1,713)		(13,424)	7		6,224		(133,502)		2,884		(139,524)
2021		(12,173)		(50,126)	2		(45,688)		(259,448)		(7,083)		(374,516)
2022		(10,602)		(32,481)	-		(39,989)		(116,871)		(3,166)		(203,109)
2023		-		3,856	-		13,351		(83,319)		-		(66,112)
Thereafter				1,398			7,547		(833)				8,112
	\$	(22,499)	\$	(95,488)	\$ 14	\$	(32,825)	\$	(564,220)	\$	(3,979)	\$	(718,997)

## **Deferred Compensation Program**

Description - The Deferred Compensation Program consists of two defined contribution plans that provide benefits based solely on the amount contributed to each participant's account(s), plus or minus any income, expenses and gains/losses. The Deferred Compensation Program is comprised of the Deferred Compensation Plan For Employees of the Metropolitan Transportation Authority ("MTA"), its Subsidiaries and Affiliates ("457 Plan") and the Thrift Plan For Employees of the Metropolitan Transportation Authority, its Subsidiaries and Affiliates ("401(k) Plan"). Certain MTA Related Groups employees are eligible to participate in both deferred compensation plans. Both Plans are designed to have participant charges, including investment and other fees, cover the costs of administering the Deferred Compensation Program.

Participation in the 401(k) Plan is now available to non-represented employees and, after collective bargaining, most represented employees. All amounts of compensation deferred under the 401(k) Plan, and all income attributable to such compensation, less expenses and fees, are held in trust for the exclusive benefit of the participants and their beneficiaries. Accordingly, the 401(k) Plan is not reflected in the accompanying consolidated statements of net position.

The Deferred Compensation Program is administered and may be amended by the Deferred Compensation Committee.

As the Deferred Compensation Program's asset base and contribution flow increased, participants' investment options were expanded by the Deferred Compensation Committee with the advice of its Financial Advisor to provide greater diversification and flexibility. In 1988, after receiving an IRS determination letter for the 401(k) Plan, the MTA offered its managers the choice of either participating in the 457 Plan or the 401(k) Plan. By 1993, the MTA offered eight investment funds: a Guaranteed Interest Account Fund, a Money Market Fund, a Common Stock Fund, a Managed Fund, a Stock Index Fund, a Government Income Fund, an International Fund and a Growth Fund.



In 1998, the Deferred Compensation Committee approved the unbundling of the Plans. In 2008, the Plans' investment choices were restructured to set up a four-tier strategy:

- Tier 1 The MTA Asset Allocation Programs offer two options for those participants who would like to make retirement investing easy the MTA Target Year Funds and Goal maker. Investments will be automatically diversified among a range of investment options.
- Tier 2 The MTA Index Funds offer a tier of index funds, which invest in the securities of companies that are included in a selected index, such as the Standard & Poor's 500 (large cap) Index or Barclays Capital U.S. Aggregate (bond) index. The typical objective of an index fund is to achieve approximately the same return as that specific market index. Index funds provide investors with lower-cost investments because they are less expensive to administer than actively managed funds.
- Tier 3 The MTA Actively Managed Portfolios, which are comprised of actively managed portfolios that are directed by one or a team of professional managers who buy and sell a variety of holdings in an effort to outperform selected indices. The funds provide a diversified array of distinct asset classes, with a single option in each class. They combine the value and growth disciplines to create a "core" portfolio for the mid-cap and international categories.
- Tier 4 The Self-Directed Mutual Fund Option is designed for the more experienced investors. The fund offers access to an expanded universe of mutual funds from hundreds of well-known mutual fund families. Participants may invest only a portion of their account balances in this Tier.

In 2011, the Deferred Compensation Program began offering Roth contributions. Employees can elect after-tax Roth contributions and before-tax contributions in both the 401(k) Plan and the 457 Plan. The total combination of Roth after-tax contributions and regular before-tax contributions cannot exceed the IRS maximum of \$18,500 dollars or \$24,500 dollars for those over age 50 for the year ended December 31, 2018.

The two Plans offer the same array of investment options to participants. Eligible participants in the Deferred Compensation Program include employees (and in the case of MTA Long Island Bus, former employees) of:

- MTA
- MTA Long Island Rail Road
- MTA Bridges and Tunnels
- MTA Long Island Bus
- MTA Metro-North Railroad
- MTA New York City Transit
- MTA Staten Island Rapid Transit
- MTA Capital Construction
- MTA Bus

**Matching Contributions** - MTA Bus on behalf of certain MTA Bus employees, MTA Metro-North Railroad on behalf of certain MNR employees who opted-out of participation in the MTA Defined Benefit Pension Plan and MTA on behalf of certain represented MTA Business Service Center employees and on behalf of certain MTA Police Officers, make contributions to the 401(k) Plan. The rate for the employer contribution varies.

MTA Bus - Certain members who were employed by Queens Surface Corporation on February 26, 2005, and who became employees of MTA Bus on February 27, 2005, receive a matching contribution equal to 50% of member's before-tax contributions provided that the maximum matching contribution shall not exceed 3% of the member's base pay. MTA Bus also makes a basic contribution equal to 2% of the member's compensation. These members shall vest in the amount in the member's account attributable to the matching contributions and basic contributions as follows:

Years of Service	Vested Percentage					
Less than 2	0%					
2	20%					
3	40%					
4	60%					
5	80%					
6 or more	100%					



MTA Metro-North Railroad – MNR employees represented by certain unions and who elected to opt-out of participation in the MTA Defined Benefit Pension Plan receive an annual employer contribution equal to 4% of the member's compensation. Effective on the first full pay period following the nineteenth anniversary date of an eligible MNR member's continuous employment, MTA Metro-North Railroad contributes an amount equal to 7% of the member's compensation. Eligible MNR members vest in these employer contributions as set forth below:

Years of Service	Vested Percentage
Less than 5	0%
5 or more	100%

MTA Headquarters - Police - For each plan year, the MTA shall make contributions to the account of each eligible MTA Police Benevolent Association member in the amounts required by the collective bargaining agreement ("CBA") and subject to the contribution limits set forth in the CBA. These contributions shall be made monthly and shall be considered MTA Police contributions. Members are immediately 100% vested in these employer contributions.

MTA Headquarters – Commanding Officers - In addition, for each plan year, the MTA shall make contributions to the account of each eligible MTA Police Department Commanding Officers Benevolent Association member in the amounts required by the CBA and subject to the contribution limits set forth in the CBA. These contributions shall be made monthly and shall be considered MTA Police contributions. These members are immediately 100% vested in these employer contributions.

MTA Headquarters – Business Services - Effective January 1, 2011, all newly hired MTA Business Services Center employees represented by the Transportation Communications Union are eligible to receive a matching contribution up to a maximum of 3% of the participant's compensation. A participant's right to the balance in his or her matching contributions shall vest upon the first of the following to occur:

- i. Completing 5 years of service,
- ii. Attaining the Normal Retirement Age of 62 while in continuous employment, or
- iii. Death while in continuous employment.

Additional Deposits (Incoming Rollover or Transfers) - Participants in the Deferred Compensation Program are eligible to roll over both their before-tax and after-tax assets from other eligible retirement plans into the 401(k) and 457 Plans. Under certain conditions, both Plans accept rollovers from all eligible retirement plans (as defined by the Code), including 401(a), 457, 401(k), 403(b), and rollover IRAs.

**Forfeitures** – Non vested contributions are forfeited upon termination of employment. Such forfeitures are used to cover a portion of the pension plan's administrative expenses.

December 31,	December 31,						
2018	2017						
(In tho	usands)						
\$ 4,392	\$ 4,109						

Employer 401K contributions

# 5. OTHER POSTEMPLOYMENT BENEFITS

The MTA participates in a defined benefit other postemployment benefits ("OPEB") plan for its employees, the Metropolitan Transportation Authority Retiree Welfare Benefits Plan ("OPEB Plan"). A description of the Plan follows:

# (1) Plan Description

The MTA Retiree Welfare Benefits Plan ("OPEB Plan") and the related Trust Fund ("Trust") was established on January 1, 2009 for the exclusive benefit of MTA retired employees and their eligible spouses and dependents, to fund some of the OPEB provided in accordance with the MTA's various collective bargaining agreements. Postemployment benefits are part of an exchange of salaries and benefits for employee services rendered. Amounts contributed to the OPEB Plan are held in an irrevocable trust and may not be used for any other purpose than to fund the costs of health and welfare benefits of its eligible participants.

The OPEB Plan and the Trust are exempt from federal income taxation under Section 115(1) of the Internal Revenue Code. The OPEB Plan is classified as a single-employer plan.

The OPEB Plan Board of Managers, comprised of the MTA Chairman, MTA Chief Financial Officer and MTA Director of Labor Relations, are the administrators of the OPEB Plan. The MTA Board has the right to amend, suspend or terminate the OPEB Plan.



The separate annual financial statements of the OPEB Plan may be obtained by writing to MTA Comptroller, 2 Broadway, 16th Floor, New York, New York, 10004 or at www.mta.info.

Benefits Provided — The benefits provided by the OPEB Plan include medical, pharmacy, dental, vision, life insurance and a Medicare supplemental plan. The different types of benefits provided vary by agency, employee type (represented employees versus non-represented) and the relevant collective bargaining agreements. Certain benefits are provided upon retirement as defined in the applicable pension plan. Certain agencies provide benefits to certain former employees if separated from service within 5 years of attaining retirement eligibility. Employees of the MTA are members of the following pension plans: the MTA Defined Benefit Plan, the Additional Plan, the MNR Cash Balance Plan, the MaBSTOA Plan, NYCERS, and NYSLERS. Certain represented employees of MTA Metro-North Railroad participate in the 401(k) Plan. Eligible employees of the MTA may elect to join the New York State Voluntary Defined Contribution Plan ("VDC").

The MTA participates in the New York State Health Insurance Program ("NYSHIP") and provides medical and prescription drug benefits, including Medicare Part B reimbursements, to many of its retirees. NYSHIP offers a Preferred Provider Organization ("PPO") plan and several Health Maintenance Organization ("HMO") plans. Represented MTA New York City Transit employees, other MTA New York City Transit former employees who retired prior to January 1, 1996 or January 1, 2001, MTA Staten Island Railway represented employees as of March 1, 2010, June 1, 2010 or January 1, 2013 depending on the union and MTA Bus retirees do not participate in NYSHIP. These benefits are provided either through a self-insured health plan, a fully insured health plan or an HMO.

The MTA is a participating employer in NYSHIP. The NYSHIP financial report can be obtained by writing to NYS Department of Civil Service, Employee Benefits Division, Alfred E. Smith Office Building, 805 Swan Street, Albany, NY 12239.

**OPEB Plan Eligibility** — To qualify for benefits under the OPEB Plan, a former employee of the MTA must:

- i. have retired;
- ii. be receiving a pension (except in the case of the 401(k) Plan);
- iii. have at least 10 years of credited service as a member of NYCERS, NYSLERS, the MTA Defined Benefit Plan, the Additional Plan, the MaBSTOA Plan, the MNR Cash Balance Plan, the 401(k) Plan or the VDC; and
- iv. have attained the minimum age requirement (unless within 5 years of commencing retirement for certain members). A represented retired employee may be eligible only pursuant to the relevant collective bargaining agreement.

Surviving Spouse and Other Dependents —

- Lifetime coverage is provided to the surviving spouse (not remarried) or domestic partner and surviving dependent children to age 26 of retired managers and certain non-represented retired employees.
- Represented retired employees must follow the guidelines of their collective bargaining agreements regarding continued health coverage for a surviving spouse or domestic partner and surviving dependents. The surviving spouse coverage continues until spouse is eligible for Medicare for represented employees of MTA New York City Transit and MTA Staten Island Railway, retiring on or after:
  - o May 21, 2014 for Transport Workers Union ("TWU") Local 100;
  - o September 24, 2014 for Amalgamated Transit Union ("ATU") Local 726;
  - o October 29, 2014 for ATU Local 1056;
  - o March 25, 2015 for Transportation Communication Union ("TCU"); and
  - December 16, 2015 for United Transportation Union ("UTU") and American Train Dispatchers Association ("ATDA").
- Lifetime coverage is provided to the surviving spouse (not remarried) or domestic partner and surviving dependents of retired uniform members of the MTA Police Department.
- Lifetime coverage is provided to the surviving spouse (not remarried) or domestic partner and surviving dependent children to age 26 of uniformed members of the MTA Police Department whose death was sustained while in performance of duty.



The OPEB Plan Board of Managers has the authority to establish and amend the benefits that will be covered under the OPEB Plan, except to the extent that they have been established by collective bargaining agreement.

**Employees Covered by Benefit Terms** — As of July 1, 2017, the date of the most recent actuarial valuation, the following classes of employees were covered by the benefit terms:

	Number of Participants
Active plan members	72,047
Inactive plan members currently receiving benefit payments Inactive plan members entitled to but not yet receiving	45,330
benefit payments	254
Total	117,631

**Contributions** — The MTA is not required by law or contractual agreement to provide funding for the OPEB Plan, other than the "pay-as-you-go" ("PAYGO") amounts. PAYGO is the cost of benefits necessary to provide the current benefits to retirees and eligible beneficiaries and dependents. Employees are not required to contribute to the OPEB Plan. The OPEB Plan Board has the authority for establishing and amending the funding policy. For the year-ended December 31, 2018, the MTA paid \$696.1 of PAYGO to the OPEB Plan.

During 2012, the MTA funded \$250 into the Trust an additional \$50 during 2013. There have been no further contributions made to the Trust. The discount rate estimates investment earnings for assets earmarked to cover retiree health benefits. Under GASB Statement No. 75, the discount rate depends on the nature of underlying assets for funded plans. Since the amount of benefits paid in 2017 exceeded the current market value of the assets, a depletion date is assumed to occur immediately. Therefore, the discount rate is set equal to the municipal bond index. The MTA elected the Bond Buyer General Obligation 20-Bond Municipal Bond Index. As a result, the discount rates as of December 31, 2017 and December 31, 2016, the measurement dates, are 3.44% and 3.78%, respectively.

Employer contributions include the implicit subsidy, or age-related subsidy inherent in the healthcare premiums structure. The implicit subsidy arises when an employer allows a retiree and their dependents to continue on the active plans and pay the active premiums. Retirees are not paying the true cost of their benefits because they have higher utilization rates than actives and therefore, are partially subsidized by the active employees. As shown in the following table, for the year ended December 31, 2017, the employer made a cash payment for retiree healthcare of \$71,101 as part of the employer's payment for active-employee healthcare benefits. For purposes of GASB Statement No. 75, this payment made on behalf of the active employees should be reclassified as benefit payments for retiree health care to reflect the retirees' underlying age-adjusted, retiree benefit costs.

Blended and Age-adjusted Premium	2017 Retirees
(in thousands)	
Total blended premiums Employment payment for retiree	\$579,893
healthcare	71,101
Net Payments	\$650,994

# (2) Actuarial Assumptions

Actuarial valuation involve estimates of the value of reported amounts and assumptions about the probability of occurrence of events far into the future, such as future employment, mortality and health care cost trend. Actuarially determined amounts are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future.

Projections of benefits for financial reporting purposes are based on the substantive plan, which refers to the plan terms as understood by the employer and the plan members at the time of the valuation, including only changes to plan terms that have been made and communicated to employees. The projections include the types of benefits provided at the time of each valuation and the historical pattern of sharing benefit costs between the employer and plan members at that time. The MTA may not be obligated to provide the same types or levels of benefits to retirees in the future.



The total OPEB liability was determined by an actuarial valuation performed on July 1, 2017. Update procedures were used to roll forward the total OPEB liability to December 31, 2017, the measurement date. The actuarial valuations were performed using the following actuarial assumptions, applied to all periods included in the measurement, unless specified:

Valuation date July 1, 2017 Measurement date December 31, 2017 Discount rate 3.44%, net of expenses Inflation 2.50% Actuarial cost method Entry Age Normal Amortization method Level percentage of payroll Normal cost increase factor 4.50% 6.50% Investment rate of return 3%. Varies by years of service and differs for Salary increases members of the various pension plans

Healthcare Cost Trend — The healthcare trend assumption is based on the Society of Actuaries-Getzen Model version 2017 utilizing the baseline assumptions included in the model, except inflation of 2.5% for medical and pharmacy benefits. Additional adjustments apply based on percentage of costs associated with administrative expenses, aging factors, potential excise taxes due to healthcare reform, and other healthcare reform provisions, separately for NYSHIP and self-insured benefits administered by MTA New York City Transit. The NYSHIP trend reflects actual increases in premiums to participating agencies through 2018. These assumptions are combined with long-term assumptions for dental and vision benefits of an annual trend of 4.0% plus Medicare Part B reimbursements of an annual trend of 4.5%, but not more than projected medical and pharmacy trends excluding any excise tax adjustments. The self-insured trend is applied directly for represented employees of MTA New York City Transit, MTA Staten Island Railway and MTA Bus. For purposes of estimating the impact of the excise tax, the NYSHIP trend for MTA Bridges and Tunnels reflects that certain represented members do not receive prescription drug coverage through NYSHIP.

**Healthcare Cost Trend Rates** — The following lists illustrative rates for the NYSHIP and self-insured trend assumptions (all amounts are in percentages).

	NY	SHIP	TI	ВТА	Self-I	nsured		
Fiscal Year	< 65	> = 65	< 65	>=65	< 65	> = 65		
2018	8.5	8.2	7.5	4.9	6.8	9.1		
2019	6.2	5.5	5.8	3.1	6.2	5.3		
2020	5.8	5.3	5.6	3.9	5.8	5.2		
2021	5.5	5.2	5.3	4.4	5.5	5.2		
2022	7.2	5.1	5.1	5.1	11.1	5.1		
2023	6.1	5.1	5.1	5.1	6.0	5.1		
2024	6.1	5.0	5.0	5.0	5.9	5.0		
2025	5.9	5.0	5.0	5.0	5.8	5.0		
2026	5.9	5.0	5.0	5.0	5.8	5.0		
2027	5.8	4.9	5.0	4.9	5.7	4.9		
2037	5.6	5.0	5.9	5.0	5.5	5.0		
2047	5.4	5.9	5.6	4.9	5.3	4.9		
2057	5.1	5.4	5.2	4.8	5.1	5.2		
2067	4.8	5.0	4.9	4.6	4.8	4.8		
2077	4.2	4.3	4.2	4.0	4.1	4.5		
2087	4.1	4.2	4.2	4.0	4.1	4.4		
2097	4.1	4.2	4.2	4.7	4.1	4.4		



For purposes of applying the Entry Age Normal Cost method, the healthcare trend prior to the valuation date are based on the ultimate rates, which are 4.1% for medical and pharmacy costs prior to age 65, 4.2% for NYSHIP costs at age 65 and later (4.6% for certain MTA Bridges and Tunnels represented members), and 4.3% for self-insured medical and pharmacy costs at age 65 and later.

Mortality — Preretirement and postretirement healthy annuitant rates are projected on a generational basis using Scale AA. As a generational table, it reflects mortality improvements both before and after the measurement date. The postretirement mortality assumption is based on an experience analysis covering the period from January 1, 2011 to December 31, 2015 for the MTA-sponsored pension plans.

*Preretirement* — RP-2000 Employee Mortality Table for Males and Females with blue-collar adjustments. No blue-collar adjustments were used for management members of MTAHQ.

*Postretirement Healthy Lives* — 95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females. No blue collar or percentage adjustments were used for management members of MTAHQ.

Postretirement Disabled Lives — RP-2014 Disabled Annuitant mortality table for males and females.

# (3) Net OPEB Liability

At December 31, 2018, the MTA reported a net OPEB liability of \$20,335. The MTA's net OPEB liability was measured as of the OPEB Plan's fiscal year-end of December 31, 2017. The total OPEB liability used to calculate the net OPEB liability was determined by an actuarial valuation date of July 1, 2017, and rolled forward to December 31, 2017.

**OPEB Plan Fiduciary Net Position** — The fiduciary net position has been determined on the same basis used by the OPEB plan. The OPEB plan uses the accrual basis of accounting under which contributions from the employer are recognized when paid. Benefits and refunds are recognized when due and payable in accordance with the terms of the Plan. Investments are reported are fair value based on quoted market prices or Net Asset Value. Detailed information about the OPEB plan's fiduciary net position is available in the separately issued financial report or at www.mta.info.

**Expected Rate of Return on Investments** — The long-term expected rate of return on OPEB plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of OPEB plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target allocation and best estimates of arithmetic real rates of return for each major asset class are summarized in the following table:

Asset Class	Target Allocation	Long-Term Expected Arithmetic Real Rate of Return
U.S core fixed income	13.0%	1.96%
Global bonds	15.0%	0.34%
Emerging markets bonds	5.0%	3.30%
Global equity	35.0%	4.99%
Non-U.S. equity	15.0%	5.84%
Global REITs	5.0%	5.62%
Hedge funds - multistrategy	12.0%	3.35%
Total	100%	
Assumed Inflation - Mean		2.50%
Assumed Inflation - Standard Deviation		1.85%
Portfolio Nominal Mean return Portfolio Standard Deviation		6.29% 11.37%
Long Term Expected Rate of Return	6.50%	



**Discount Rate** — The discount rate used in this valuation to measure the total OPEB liability was updated to incorporate GASB Statement No. 75 guidance.

The plan's fiduciary net position was not projected to be available to make all projected future benefit payments of current active and inactive employees. Therefore, the discount rate for calculating the total OPEB liability is equal to the single equivalent rate that results in the same actuarial present value as the long-term expected rate of return applied to benefit payments, to the extent that the plan's fiduciary net position is projected to be sufficient to make projected benefit payments, and the municipal bond rate applied to benefit payments, to the extent that the plan's fiduciary net position is not projected to be sufficient. Therefore, the discount rate is set equal to the Bond Buyer General Obligation 20-Bond Municipal Bond Index as of December 31, 2017 of 3.44%.

Changes in Net OPEB Liability — Changes in the MTA's net OPEB liability for the year ended December 31, 2018, based on the December 31, 2017 measurement date, are as follows:

	Total OPEB Liability	Plan Fiduciary Net Position (in thousands)	Net OPEB Liability
Balance as of December 31, 2016	\$18,787,254	\$322,982	\$18,464,272
Changes for the year:			
Service Cost	884,548	-	884,548
Interest on total OPEB liability	731,405	-	731,405
Effect of plan changes	27,785	-	27,785
Effect of economic/demographic gains or losses	13,605	-	13,605
Effect of assumptions changes or inputs	911,465	-	911,465
Benefit payments	(650,994)	(650,994)	-
Employer contributions	-	650,994	(650,994)
Net investment income	-	47,370	(47,370)
Administrative expenses		0	0
Net changes	1,917,814	47,370	1,870,444
Balance as of December 31, 2017	\$20,705,068	\$370,352	\$20,334,716

Sensitivity of the Net OPEB Liability to Changes in the Discount Rate — The following presents the net OPEB liability of the MTA, calculated using the discount rate of 3.44%, as well as what the MTA's net OPEB liability would be if it were calculated using a discount rate that is 1-percentage point lower or 1-percentage point higher than the actual discount rate used for the measurement date:

	1% Decrease	Discount Rate	1% Increase
	(2.44%)	(3.44%)	(4.44%)
	(in thousands)		
Net OPEB liability	\$23,407,072	\$20,334,716	\$17,817,307

Sensitivity of the Net OPEB Liability to Changes in the Healthcare Cost Trend Rates — The following presents the net OPEB liability of the MTA, calculated using the current healthcare cost trend rates, as well as what the MTA's net OPEB liability would be if it were calculated using trend rates that are 1-percentage point lower or 1-percentage point higher than the actual healthcare trend rate used for the measurement date:

		Current Trend	
	1% Decrease	Rate*	1% Increase
		(in thousands)	
Net OPEB liability	\$17,394,102	\$20,334,716	\$24,043,932

<sup>\*</sup>For further details, refer to the Health Care Cost Trend Rates tables in the Actuarial Assumptions section of this Note Disclosure



## (4) OPEB Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB

For the nine-month period ended September 30, 2019 and year ended December 31, 2018, the MTA recognized OPEB expense of \$483 and \$1.75 billion, respectively.

At September 30, 2019 and December 31, 2018, the MTA reported deferred outflows of resources and deferred inflows of resources related to OPEB as follows (\$ in thousands):

	September 30, 2019		<b>December 31, 2018</b>	
	Deferred Outflows of Resources	Deferred Inflows of Resources	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$11,767	\$-	\$11,767	\$-
Changes of assumptions	788,294	-	788,294	-
Net difference between projected and actual earnings on OPEB plan investments	-	21,101	-	21,101
Employer contributions to the plan subsequent to the measurement of net OPEB liability	720,627	-	696,065	-
Total	\$1,520,688	\$21,101	\$1,496,126	\$21,101

The annual differences between the projected and actual earnings on investments are amortized over a 5-year closed period beginning the year in which the difference occurs. The annual differences between expected and actual experience and changes in assumptions are amortized over a 7.4-year closed period, beginning the year in which the deferred amount occurs.

For the nine-month period ended September 30, 2019 and year ended December 31, 2018, \$720.6 and \$696.1 were reported as deferred outflows of resources related to OPEB. This amount includes both MTA's contributions subsequent to the measurement date and an implicit rate subsidy adjustment that will be recognized as a reduction of the net OPEB liability in the year ended December 31, 2019. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to OPEB at December 31, 2018 will be recognized in OPEB expense as follows (in thousands):

# Year ended December 31,:

2019	\$119,734
2020	119,734
2021	119,734
2022	119,734
2023	125,010
Thereafter	175,014
	\$778,960

# 6. CAPITAL ASSETS

Capital assets and improvements include all land, buildings, equipment, and infrastructure of the MTA having a minimum useful life of two years and having a cost of more than \$25 thousand.

Capital assets are stated at historical cost, or at estimated historical cost based on appraisals, or on other acceptable methods when historical cost is not available. Capital leases are classified as capital assets in amounts equal to the lesser of the fair market value or the present value of net minimum lease payments at the inception of the lease.



Accumulated depreciation and amortization are reported as reductions of fixed assets. Depreciation is computed using the straight-line method based upon estimated useful lives of 25 to 50 years for buildings, 2 to 40 years for equipment, and 25 to 100 years for infrastructure. Capital lease assets and leasehold improvements are amortized over the term of the lease or the life of the asset whichever is less. Capital assets consist of the following at December 31, 2017, December 31, 2018 and September 30, 2019 (in millions):

		Balance			В	alance					Balance
	De	ecember 31, 2017	Additions /	Deletions / lassifications	De	ecember 31, 2018		Additions / classifications	Deletions / Reclassifications	Se	eptember 30, 2019
							(	(Unaudited)	(Unaudited)	(U	naudited)
Capital assets not being depreciated:											
Land	\$	217	\$ -	\$ -	\$	217	\$	3	\$ -	\$	220
Construction work-in-progress		16,978	7,528	6,454		18,052		5,179	3,351		19,880
Total capital assets not being depreciated		17,195	7,528	6,454		18,269		5,182	3,351		20,100
Capital assets being depreciated:											
Buildings and structures		17,716	746	5		18,457		284	-		18,741
Bridges and tunnels		3,604	550	-		4,154		30	-		4,184
Equipment:											
Passenger cars and locomotives		13,860	303	785		13,378		322	-		13,700
Buses		3,613	321	126		3,808		413	575		3,646
Infrastructure		23,834	2,438	14		26,258		864	-		27,122
Other		22,706	 1,825	12		24,519		1,205	9		25,715
Total capital assets being depreciated		85,333	 6,183	942		90,574		3,118	584		93,108
Less accumulated depreciation:											
Buildings and structures		6,923	495	4		7,414		388	-		7,802
Bridges and tunnels		783	23	-		806		18	-		824
Equipment:											
Passenger cars and locomotives		7,206	397	660		6,943		322	-		7,265
Buses		2,216	233	126		2,323		166	575		1,914
Infrastructure		9,286	803	17		10,072		573	-		10,645
Other		8,054	728	 8		8,774		668	8		9,434
Total accumulated depreciation		34,468	 2,679	 815		36,332		2,135	583		37,884
Total capital assets being depreciated - net		50,865	3,504	127		54,242		983	1		55,224
Capital assets - net	\$	68,060	\$ 11,032	\$ 6,581	\$	72,511	\$	6,165	\$ 3,352	\$	75,324



Interest capitalized in conjunction with the construction of capital assets for the periods ended September 30, 2019 and December 31, 2018 was \$28.5 and \$49.3, respectively.

Capital assets acquired prior to April 1982 for MTA New York City Transit were funded primarily by NYC with capital grants made available to MTA New York City Transit. NYC has title to a substantial portion of such assets and, accordingly, these assets are not recorded on the books of the MTA. Subsequent acquisitions, which are part of the MTA Capital Program, are recorded at cost by MTA New York City Transit. In certain instances, title to MTA Bridges and Tunnels' real property may revert to NYC in the event the MTA determines such property is unnecessary for its corporate purpose. With respect to MTA Metro-North Railroad, capital assets completely funded by CDOT are not reflected in MTA's financial statements, as ownership is retained by CDOT.

For certain construction projects, the MTA holds in a trust account marketable securities pledged by third-party contractors in lieu of cash retainages. At September 30, 2019 and December 31, 2018, these securities, which are not included in these financial statements, totaled \$97.4 and \$81.7, respectively, and had a market value of \$72.8 and \$53.2, respectively.

#### 7. LONG-TERM DEBT

(In millions)		Original Issuance	De	cember 31, 2018		Issued	Retired	Se	eptember 30, 2019
MTA:	_	Issuance		2010		(Unaud		(I.I	(naudited)
Transportation Revenue Bonds						(Ollaud	ned)	(0	naudited)
1.37%–6.68% due through 2057	\$	37,300	\$	20,923	\$	1,354	\$ -	\$	22,277
Bond Anticipation Notes*	Ψ	37,300	Ψ	20,723	Ψ	1,551	Ψ	Ψ	22,277
2.3% due through 2022		12,261		4,007		4,655	1,954		6,708
State Service Contract Bonds		,		1,00.		,,,,,	-,,		2,1.00
4.125%–5.70% due through 2031		2,395		_		_	_		_
Dedicated Tax Fund Bonds		,							
2.05%-5.00% due through 2057		11,039		5,184		_	-		5,184
č		62,995		30,114		6,009	1,954		34,169
Net unamortized bond premium		-		1,559		457	273		1,743
•		62,995		31,673		6,466	2,227		35,912
TBTA:									
General Revenue Bonds									
1.81%-4.18% due through 2047		16,932		7,663		252	144		7,771
Bond Anticipation Notes									
5.77% due through 2032		400		-		-	-		-
Subordinate Revenue Bonds									
3.13%-5.34% due through 2032		4,066		1,022		-	19		1,003
		21,398		8,685		252	163		8,774
Net unamortized bond premium		-		626		31	57		600
		21,398		9,311		283	220		9,374
MTA Hudson Rail Yards Trust:									
MTA Hudson Rail Yards Trust Obligations									
1.88%–2.65% due through 2056		1,057		1,057		-	173		884
Net unamortized bond premium				128			19		109
		1,057		1,185		-	192		993
Total	\$	85,450	\$	42,169	\$	6,749	\$ 2,639	\$	46,279
Current portion			\$	2,552				\$	1,071
Long-term portion			\$	39,617				\$	45,208

<sup>\*</sup> Includes draws on a \$800 taxable revolving credit agreement with JPMorgan Chase Bank, National Association, which is active through August 24, 2022. Draws under the JPMorgan Chase Agreement will be evidenced by revenue anticipation notes ("RANs"). As of September 30, 2019 and December 31, 2018, the outstanding RAN was \$8 and \$7, respectively.



(In millions)		Original Issuance	De	cember 31, 2017	Issued	Retired	De	cember 31, 2018
MTA:	_	Issuance		2017	Issueu	Ketireu		2010
Transportation Revenue Bonds								
1.37%–6.68% due through 2057	\$	36,369	\$	21,028	\$ 680	785	\$	20,923
Bond Anticipation Notes								
5.0% due through 2021*		7,607		1,516	3,003	512		4,007
State Service Contract Bonds								
4.125%-5.70% due through 2031		2,395		68	_	68		-
Dedicated Tax Fund Bonds								
2.05%-5.00% due through 2057		11,039		5,371	-	187		5,184
		57,410		27,983	3,683	1,552		30,114
Net unamortized bond premium		-		1,578	279	298		1,559
		57,410		29,561	3,962	1,850		31,673
TBTA:								
General Revenue Bonds								
4.00%-5.77% due through 2050		16,680		7,218	1,055	610		7,663
Bond Anticipation Notes								
5.77% due through 2032		400		165	-	165		-
Subordinate Revenue Bonds								
4.00%-5.77% due through 2032		4,066		1,386	-	364		1,022
		21,146		8,769	1,055	1,139		8,685
Net unamortized bond premium		-		581	129	84		626
		21,146		9,350	1,184	1,223		9,311
MTA Hudson Rail Yards Trust:								
MTA Hudson Rail Yards Trust Obligations								
1.88%-2.65% due through 2056		1,057		1,057	-	-		1,057
Net unamortized bond premium		-		130	-	2		128
	_	1,057		1,187		2		1,185
Total	\$	79,613	\$	40,098	\$ 5,146	3,075	\$	42,169
Current portion			\$	1,806			\$	2,552
Long-term portion			\$	38,292			\$	39,617

<sup>\*</sup> Includes draws on a \$700 taxable revolving credit agreement with JPMorgan Chase Bank, National Association, which is active through August 24, 2022. Draws under the JPMorgan Chase Agreement will be evidenced by revenue anticipation notes ("RANs"). As of December 31, 2018 and 2017, the outstanding RAN was \$17 and \$7, respectively.

MTA Transportation Revenue Bonds — Prior to 2019, MTA issued sixty-two Series of Transportation Revenue Bonds secured under its General Resolution Authorizing Transportation Revenue Obligations adopted on March 26, 2002 in the aggregate principal amount of \$31,891. The Transportation Revenue Bonds are MTA's special obligations payable solely from transit and commuter systems revenues and certain state and local operating subsidies.

On February 6, 2019, MTA issued \$454 Transportation Revenue Green Bonds, Series 2019A. Proceeds from the transaction were used to pay off the existing outstanding 2017C-1 Transportation Revenue Bond Anticipation Notes in the amount of \$500. The Series 2019A bonds were issued through a competitive bidding process as \$191 Subseries 2019A-1, \$163 Subseries 2019A-2, and \$100 Subseries 2019A-3. The Subseries 2019A-1 bonds were issued as mandatory tender bonds with an initial purchase date of November 15, 2024. The Subseries 2019A-2 and 2019A-3 bonds were issued as fixed rate tax-exempt bonds with final maturities of November 15, 2045, and November 15, 2046, respectively.

On March 28, 2019, MTA effectuated a mandatory tender and remarketed \$50 MTA Transportation Revenue Bonds, Subseries 2012A-3 because its current interest rate period expired by its terms. The Series 2012A-3 Bonds were remarketed in Term Rate Mode as Floating Rate Tender Notes ("FRNs") with a purchase date of March 1, 2022 and with an interest rate of SIFMA plus 0.50%.

On May 1, 2019, MTA drew \$300 on the Railroad Rehabilitation and Improvement Financing loan ("RRIF Loan") to finance the positive train control project for MTA Long Island Railroad and MTA Metro-North Railroad. The current principal amount outstanding on the Transportation Revenue Bond, Series 2015X is \$441 as the first draw on the RRIF Loan (Series 2015X-1) was on September 20, 2016 in the amount of \$146. MTA originally entered into a Financing Agreement with the Federal Railroad Administrator, acting on behalf of the United States Secretary of Transportation, on May 5, 2015 to establish the RRIF Loan which is not to exceed \$967.



On May 14, 2019, MTA issued \$177.185 Transportation Revenue Green Bonds, Series 2019B (Climate Bond Certified). Proceeds from the transaction were used to retire the existing outstanding \$200 Transportation Revenue Bond Anticipation Notes, Series 2017C-2. The Series 2019B bonds were issued as fixed rate tax-exempt bonds with a final maturity of November 15, 2052.

On June 3, 2019, MTA effectuated a mandatory tender and remarketed \$50 MTA Transportation Revenue Variable Rate Bonds, Subseries 2012A-2 because its current interest rate period was set to expire by its terms. The Subseries 2012A-2 bonds were remarketed as Variable Interest Rate Obligations in Weekly Mode supported by an irrevocable direct-pay Letter of Credit (LOC) issued by Bank of Montreal. The LOC will expire on June 2, 2022.

On August 14, 2019, MTA issued \$422 Transportation Revenue Green Bonds, Series 2019C (Climate Bond Certified). Proceeds from the transaction were used to retire the existing outstanding MTA Transportation Revenue Bond Anticipation Notes, Series 2018A. The Series 2019C bonds were issued as fixed rate tax-exempt bonds with a final maturity of November 15, 2049.

MTA Bond Anticipation Notes — From time to time, MTA issues Transportation Revenue Bond Anticipation Notes in accordance with the terms and provisions of the General Resolution described above in the form of commercial paper to fund its transit and commuter capital needs. The interest rate payable on the notes depends on the maturity and market conditions at the time of issuance. The MTA Act requires MTAHQ to periodically (at least each five years) refund its bond anticipation notes with bonds.

On February 6, 2019, MTA issued \$750 MTA Transportation Revenue Bond Anticipation Notes, Series 2019A to generate new money proceeds to finance existing approved transit and commuter projects and to retire the outstanding Taxable Revenue Anticipation Note. The Series 2019A Notes were priced through a competitive method of sale. The Series 2019A Notes were issued as fixed rate tax-exempt notes with a final maturity of February 3, 2020.

On May 22, 2019, MTA issued \$1,200 MTA Transportation Revenue Bond Anticipation Notes, Series 2019B to generate new money proceeds to finance existing approved transit and commuter projects. The Series 2019B Notes were priced through a competitive method of sale. The Series 2019B Notes were issued as fixed rate tax-exempt notes with a final maturity of May 15, 2022.

On July 12, 2019, MTA issued \$300 MTA Transportation Revenue Bond Anticipation Notes, Series 2019C to generate new money proceeds to finance existing approved transit and commuter projects related to the State funding commitment for the 2015-2019 Capital Program. The Series 2019C Notes were issued as fixed rate tax-exempt notes with a final maturity of July 1, 2020.

On September 6, 2019, MTA issued \$1,200 MTA Transportation Revenue Bond Anticipation Notes, Series 2019D to generate new money proceeds to finance existing approved transit and commuter projects, \$200 which is related to the State funding commitment for the 2015-2019 Capital Program. The Series 2019D Notes were issued as fixed rate tax-exempt notes with a final maturity of September 1, 2022. The Series 2019D Notes were issued as \$1,000 Subseries 2019D-1 and \$200 Subseries 2019D-2.

MTA Revenue Anticipation Notes — On January 9, 2014, MTA closed a \$350 revolving working capital liquidity facility with the Royal Bank of Canada which is expected to remain in place until July 7, 2017. Draws on the facility will be taxable, as such this facility is intended to be used only for operating needs of MTA and the related entities. On January 31, 2017, MTA drew down \$200 of its \$350 Revolving Credit Agreement with the Royal Bank of Canada, which was entered into on January 1, 2014. The purpose of the draw was to retire Transportation Revenue Bond Anticipation Notes, Subseries 2016A-2. The \$200 draw-down plus accrued interest was repaid on March 31, 2017.

On August 24, 2017, MTA entered into a \$350 taxable Revenue Anticipation Note facility, (the "2017A RAN"), with J.P.Morgan Chase Bank, National Association. An initial draw of \$3.5 was made at closing. This balance will remain throughout the duration of the agreement. The 2017A RAN is available to be used by MTA for any corporate purpose as needed and is structured as a revolving loan facility. The RAN expires on August 24, 2022.

On August 14, 2018, MTA amended the 2017A RAN to (1) correct the designation of the facility to Transportation Revenue Anticipation Notes, Series 2017 (the "Series 2017 RANs") and (2) increase the maximum amount of the Series 2017 RANs authorized to be issued by \$350, for a maximum principal amount of \$700 at any one-time outstanding. To maintain the 1% draw on the line of credit throughout the duration of the agreement, an additional \$3.5 draw was made on August 14, 2018.

On August 16, 2019, the Revenue Anticipation Note facility with JPMorgan Chase was amended, increasing the line of credit to \$800. To maintain the 1% draw on the line of credit throughout the duration of the agreement, an additional \$1 draw was made on August 16, 2019.



On August 16, 2019, MTA entered into a \$200 taxable revolving credit agreement with Bank of America, National Association ("BANA") that is active through August 24, 2022. Draws under the BANA Agreement will be evidenced by RANs. Funds may be used for operational or capital purposes.

MTA State Service Contract Bonds — Prior to 2019, MTA issued two Series of State Service Contract Bonds secured under its State Service Contract Obligation Resolution adopted on March 26, 2002, in the aggregate principal amount of \$2,395. Currently, there are no outstanding bonds. The State Service Contract Bonds are MTA's special obligations payable solely from certain payments from the State of New York under a service contract.

MTA Dedicated Tax Fund Bonds — Prior to 2019, MTA issued twenty-two Series of Dedicated Tax Fund Bonds secured under its Dedicated Tax Fund Obligation Resolution adopted on March 26, 2002, in the aggregate principal amount of \$9,769. The Dedicated Tax Fund Bonds are MTA's special obligations payable solely from monies held in the Pledged Amounts Account of the MTA Dedicated Tax Fund. State law requires that the MTTF revenues and MMTOA revenues (described above in Note 2 under "Nonoperating Revenues") be deposited, subject to appropriation by the State Legislature, into the MTA Dedicated Tax Fund.

On March 19, 2019, MTA issued \$750 MTA Dedicated Tax Fund Bond Anticipation Notes, Series 2019A to generate new money proceeds to finance existing approved transit and commuter projects. The Series 2019A Notes were priced through a competitive method of sale. The Series 2019A Notes were issued as fixed rate tax-exempt notes with a final maturity of March 1, 2022...

MTA Certificates of Participation — Prior to 2019, MTA (solely on behalf of MTA Long Island Rail Road and MTA Metro-North Railroad), MTA New York City Transit and MTA Bridges and Tunnels executed and delivered three Series of Certificates of Participation in the aggregate principal amount of \$807 to finance certain building and leasehold improvements to an office building at Two Broadway in Manhattan occupied principally by MTA New York City Transit, MTA Bridges and Tunnels, MTA Capital Construction, and MTAHQ. The Certificates of Participation represented proportionate interests in the principal and interest components of Base Rent paid severally, but not jointly, in their respective proportionate shares by MTA New York City Transit, MTA, and MTA Bridges and Tunnels, pursuant to a Leasehold Improvement Sublease Agreement.

MTA Bridges and Tunnels General Revenue Bonds — Prior to 2019, MTA Bridges and Tunnels issued thirty- one Series of General Revenue Bonds secured under its General Resolution Authorizing General Revenue Obligations adopted on March 26, 2002, in the aggregate principal amount of \$12,899. The General Revenue Bonds are MTA Bridges and Tunnels' general obligations payable generally from the net revenues collected on the bridges and tunnels operated by MTA Bridges and Tunnels.

On May 23, 2019, MTA issued \$150 Triborough Bridge and Tunnel Authority General Revenue Bonds, Series 2019A to finance bridge and tunnel capital projects. The Series 2019A bonds were issued as tax-exempt fixed rate bonds with a final maturity of November 15, 2049.

On September 30, 2019, MTA issued \$102 Triborough Bridge and Tunnel Authority General Revenue Refunding Bonds, Series 2019B. The Series 2019B bonds were issued as taxable fixed rate bonds with a final maturity of November 15, 2044. Proceeds from the transaction were used to refund \$101 Triborough Bridge and Tunnel Authority General Revenue Variable Rate Bonds, Series 2001B.

MTA Bridges and Tunnels Subordinate Revenue Bonds — Prior to 2019, MTA Bridges and Tunnels issued twelve Series of Subordinate Revenue Bonds secured under its 2001 Subordinate Revenue Resolution Authorizing Subordinate Revenue Obligations adopted on March 26, 2002, in the aggregate principal amount of \$3,871. The Subordinate Revenue Bonds are MTA Bridges and Tunnels' special obligations payable generally from the net revenues collected on the bridges and tunnels operated by MTA Bridges and Tunnels after the payment of debt service on the MTA Bridges and Tunnels General Revenue Bonds described in the preceding paragraph.

MTA Hudson Rail Yards Trust Obligations — The MTA Hudson Rail Yards Trust Obligations, Series 2016A ("Series 2016A Obligations") were executed and delivered on September 22, 2016 by Wells Fargo Bank National Association, as Trustee ("Trustee"), to (i) retire the outstanding Transportation Revenue Bond Anticipation Notes, Series 2016A of the MTA, which were issued to provide interim financing of approved capital program transit and commuter projects, (ii) finance approved capital program transit and commuter projects of the affiliates and subsidiaries of the MTA, (iii) fund an Interest Reserve Requirement in an amount equal to one-sixth (1/6) of the greatest amount of Interest Components (as hereinafter defined) in the current or any future year, (iv) fund a portion of the Capitalized Interest Fund requirement, and (v) finance certain costs of issuance.

Pursuant to the Financing Agreement (as hereinafter defined), the MTA has agreed to pay to, or for the benefit of, the Trustee the "MTA Financing Agreement Amount," consisting of principal and interest components. The Series 2016A Obligations evidence the interest of the Owners thereof in such MTA Financing Agreement Amount payable by the MTA pursuant to



the Financing Agreement. The principal amount of the Series 2016A Obligations represent the principal components of the MTA Financing Agreement Amount ("Principal Components") and the interest represent the interest components of the MTA Financing Agreement Amount ("Interest Components"). The Series 2016A Obligations (and the related Principal Components and Interest Components) are special limited obligations payable solely from the Trust Estate established under the MTA Hudson Rail Yards Trust Agreement, dated as of September 1, 2016 ("Trust Agreement"), by and between the MTA and the Trustee.

The Trust Estate consists principally of (i) the regularly scheduled rent, delinquent rent or prepaid rent ("Monthly Ground Rent") to be paid by Ground Lease Tenants (the tenants under the Western Rail Yard Original Ground Lease and each Severed Parcel Ground Lease of the Eastern Rail Yard) of certain parcels being developed on and above the Eastern Rail Yard and Western Rail Yard portions of the John D. Caemmerer West Side Yards ("Hudson Rail Yards") currently operated by The Long Island Rail Road Company ("LIRR"), (ii) monthly scheduled transfers from the Capitalized Interest Fund during the limited period that the Monthly Ground Rent is abated under the applicable Ground Lease, (iii) payments made by the Ground Lease Tenants if they elect to exercise their option to purchase the fee interest in such parcels ("Fee Purchase Payments"), (iv) Interest Reserve Advances and Direct Cost Rent Credit Payments (collectively "Contingent Support Payments") made by the MTA, (v) rights of the MTA to exercise certain remedies under the Ground Leases and (vi) rights of the Trustee to exercise certain remedies under the Fee Mortgages.

Pursuant to the Interagency Financing Agreement, dated as of September 1, 2016 ("Financing Agreement"), by and among the MTA, New York City Transit Authority, Manhattan and Bronx Surface Transit Operating Authority, LIRR, Metro-North Commuter Railroad Company, and MTA Bus Company (collectively, the "Related Transportation Entities"), and the Trustee, the MTA has agreed to pay to the Trustee the MTA Financing Agreement Amount with moneys provided by the Financing Agreement Payments (which are principally the revenues within the Trust Estate) and Interest Reserve Advances. The MTA has established a deposit account with Wells Fargo Bank, National Association, as depositary ("Depositary"), and the MTA will direct all Ground Lease Tenants to make Monthly Ground Rent and Fee Purchase Payments (payments made by the Ground Lease Tenants if they elect to exercise their option to purchase the fee interest in such parcels) directly to the Depositary, which deposits will be transferred daily to the Trustee. In addition, in the event the MTA elects to exercise certain Authority Cure Rights upon the occurrence of a Ground Lease Payment Event of Default or is required to make certain Direct Cost Rent Credit Payments, the MTA will make all payments relating to defaulted and future Monthly Ground Rent directly to the Depositary.

On May 15, 2019 and July 15, 2019, MTA effectuated early mandatory redemptions of a portion of the MTA Hudson Rail Yards Trust Obligations, Series 2016A maturing on November 15, 2046, in the Principal Component of \$105 and \$68, respectively. These early mandatory redemptions were due to the receipt of Fee Purchase Payments in connection with commercial condominium units to be owned and occupied by several companies.

Refer to Note 8 for further information on Leases.

**Debt Limitation** — The New York State Legislature has imposed limitations on the aggregate amount of debt that the MTA and MTA Bridges and Tunnels can issue to fund the approved transit and commuter capital programs. The current aggregate ceiling, subject to certain exclusions, is \$55,497 compared with issuances totaling approximately \$34,849. The MTA expects that the current statutory ceiling will allow it to fulfill the bonding requirements of the approved Capital Programs.

**Bond Refundings** — From time to time, the MTA and MTA Bridges and Tunnels issue refunding bonds to achieve debt service savings or other benefits. The proceeds of refunding bonds are generally used to purchase U.S. Treasury obligations that are placed in irrevocable trusts. The principal and interest within the trusts will be used to repay the refunded debt. The trust account assets and the refunded debt are excluded from the consolidated statements of net position.

At September 30, 2019 and December 31, 2018, the following amounts of MTA bonds, which have been refunded, remain valid debt instruments and are secured solely by and payable solely from their respective irrevocable trusts.

(In millions)	-	nber 30, 019	December 31, 2018		
	(Unai	udited)			
MTA Transit and Commuter Facilities:					
Transit Facilities Revenue Bonds	\$	148	\$	169	
Commuter Facilities Revenue Bonds		150		172	
Dedicated Tax Fund Bonds		22		42	
MTA Bridges and Tunnels:					
General Purpose Revenue Bonds		628		674	
Special Obligation Subordinate Bonds		89		102	
Total	\$	1,037	\$	1,159	



For the nine months ended September 30, 2019, MTA did not have any refunding transactions. For the nine months ended September 30, 2018, MTA refunding transactions decreased aggregate debt service payments by \$25 and provided an economic gain of \$49. Details of bond refunding savings as of December 31, 2018 are as follows:

Refunding Bonds issued in 2018	(In millions)	Series	Date issued	value inded	Debt Service Savings	Value of Savings
Transportation Revenue Bonds		TRB 2018B	08/23/2018	\$ 207	\$ 30	\$ 28
MTA Bridges and Tunnels General Rev	venue Bonds	TBTA 2018B	08/30/2018	270	80	62
		TBTA 2018C	08/30/2018	159 429	(5) 75	<u>21</u> <u>83</u>
<b>Total Bond Refunding Savings</b>				\$ 636	<u>\$ 105</u>	<u>\$ 111</u>

For the nine-month periods ended September 30, 2019 and 2018, the accounting loss on bond refundings totaled \$0 and the accounting loss on bond refundings totaled \$2, respectively.

Unamortized losses related to bond refundings were as follows:

(In millions)	December 31, 2017		Gain)/loss refunding	ar	2017 mortization	December 31, 2018	(Gain)/loss on refunding (Unaudited)	_	Current year amortization (Unaudited)	3(	otember 0, 2019 naudited)
MTA:											
Transportation Revenue											
Bonds	\$ 728	\$	(2)	\$	(56)	\$ 670	\$	-	\$ (60)	\$	610
State Service Contract Bonds	(10	))	-		(2)	(12)		-	-		(12)
Dedicated Tax Fund Bonds	254		-		(16)	238		-	(12)		226
	972	: -	(2)		(74)	896		-	(72)		824
TBTA:											
General Revenue Bonds	233	;	1		(25)	209		-	(12)		197
Subordinate Revenue Bonds	30	)	-		3	33		-	(3)		30
	263		1		(22)	242		-	(15)		227
Total	\$ 1,235	\$	(1)	\$	(96)	\$ 1,138	\$	_	\$ (87)	\$	1,051

**Debt Service Payments** — Future principal and interest debt service payments at September 30, 2019 are as follows (in millions):

(Unaudited)	MTA		MTA BRIDGES	A١	ND TUNNELS	Debt Service			
	Principal	]	Interest	Principal		Interest	Principal		Interest
2019	\$ 767	\$	1,471	\$ 304	\$	157	\$ 1,071	\$	1,628
2020	3,397		1,407	266		333	3,663		1,740
2021	1,992		1,296	317		318	2,309		1,614
2022	3,562		1,230	329		304	3,891		1,534
2023	975		1,148	355		289	1,330		1,437
2024-2028	5,284		4,355	2,100		1,167	7,384		5,522
2029-2033	6,332		3,219	2,314		698	8,646		3,917
2034-2038	5,479		2,211	1,346		399	6,825		2,610
2039-2043	3,579		1,160	711		135	4,290		1,295
2044-2048	2,073		477	687		30	2,760		507
2049-2053	987		160	45		1	1,032		161
2054-2058	626		29	-		-	626		29
Thereafter	-		-	-		-	-		-
Total	\$ 35,053	\$	18,163	\$ 8,774	\$	3,831	\$ 43,827	\$	21,994



The above interest amounts include both fixed-rate and variable-rate calculations. The interest rate assumptions for variable rate bonds are as follows:

- Transportation Revenue Refunding Bonds, Series 2002D 4.45% per annum taking into account the interest rate swap plus the current fixed floating rate note spread.
- Transportation Revenue Refunding Bonds, Series 2002G 3.542% per annum taking into account the interest rate swap plus the current fixed floating rate note spread; and 4.00% per annum plus the current fixed floating rate note spread on the unhedged portion.
- Transportation Revenue Bonds, Series 2005D 3.561% per annum taking into account the interest rate swaps.
- *Transportation Revenue Bonds*, *Series* 2005E 3.561% per annum taking into account the interest rate swaps and 4.00% per annum on the unhedged portion.
- Transportation Revenue Bonds, Series 2011B 3.542% per annum taking into account the interest rate swaps plus the current fixed floating rate note spread; and 4.00% per annum plus the current fixed floating rate note spread on the unhedged portion.
- Transportation Revenue Bonds, Series 2012A 4.00% per annum plus the current fixed floating rate note spread.
- Transportation Revenue Bonds, Series 2012G 3.563% per annum taking into account the interest rate swaps plus the current fixed floating rate note spread.
- Transportation Revenue Bonds, Series 2014D-2 4.00% per annum plus the current fixed floating rate note spread.
- Transportation Revenue Bonds, Series 2015A-2—4.00% per annum plus the current fixed floating rate note spread.
- Transportation Revenue Bonds, Series 2015E 4.00% per annum.
- *Dedicated Tax Fund Bonds, Series 2002B* 4.00% per annum on SubSeries 2002B-1; and 4.00% per annum plus the current fixed floating rate note spread.
- Dedicated Tax Fund Variable Rate Refunding Bonds, Series 2008A 3.316% per annum taking into account the interest rate swaps plus the current fixed floating rate note spread; and 4.00% per annum plus the current fixed floating rate note spread on the unhedged portion.
- Dedicated Tax Fund Refunding Bonds, SubSeries 2008B-3a and 2008B-3c— 4.00% per annum plus the current fixed floating rate note spread.
- MTA Bridges and Tunnels Subordinate Refunding Bonds, Series 2000ABCD 6.08% per annum taking into account the interest rate swap plus the current fixed floating rate note spread; and 4.00% per annum plus the current fixed floating rate note spread on the unhedged portion.
- MTA Bridges and Tunnels General Revenue Refunding Bonds, Series 2001C 4.00% per annum.
- MTA Bridges and Tunnels General Revenue Refunding Bonds, Series 2001B 4.00% per annum plus the current fixed floating rate note spread.
- MTA Bridges and Tunnels General Revenue Refunding Bonds, Series 2002F 5.404% and 3.076% per annum taking into account the interest rate swaps and 4.00% per annum on portions not covered by the interest rate swaps.
- MTA Bridges and Tunnels General Revenue Bonds, Series 2003B 4.00% per annum; and 4.00% per annum plus the current fixed floating rate note spread on SubSeries 2003B-2.
- MTA Bridges and Tunnels General Revenue Bonds, Series 2005A 4.00% per annum except from November 1, 2027 through November 1, 2030, 3.076% per annum taking into account the interest rate swap.
- MTA Bridges and Tunnels General Revenue Refunding Bonds, Series 2005B 3.076% per annum based on the Initial Interest Rate Swaps plus the current fixed floating rate note spread.
- MTA Bridges and Tunnels General Revenue Bonds, Series 2008B-2 4.00% per annum plus the current fixed floating rate note spread.
- MTA Bridges and Tunnels General Revenue Bonds, Series 2018D 4.00% per annum plus the current fixed floating rate note spread.
- MTA Bridges and Tunnels General Revenue Bonds, Series 2018E 4.00% per annum.



**Loans Payable** – The MTA and the New York Power Authority ("NYPA") entered into an updated Energy Services Program Agreement ("ESP Agreement"). The ESP Agreement authorized MTA affiliates and subsidiaries to enter into a Customer Installation Commitment ("CIC") with NYPA for turn-key, energy efficiency projects, which would usually be long-term funded and constructed by NYPA. The repayment period for the NYPA loan can be up to 20 years, but can be repaid at any time without penalty.

The Loans Payable debt service requirements at September 30, 2019 are as follows (in millions):

Year	(Unaudited)	Principal	Interest	Total
2019		\$ 1	1 \$ 1	\$ 12
2020		1	5 2	17
2021		1	5 2	17
2022		1	3 2	15
2023		1	1 2	13
2024-2028		3	7 3	40
2029-2033		2	1 1	22
2034-2038			3 0	3
Total		<u>\$ 12</u>	<u>\$</u> <u>\$</u> 13	\$ 139
Current portion		\$ 1	3	
Long-term portion		11	3	
Total NYPA Loans Payable		\$ 12	<u>6</u>	

The above interest amounts include both fixed and variable rate calculations. Interest on the variable-rate loan is paid at the Securities Industry and Financial Markets Association Municipal Swap Index ("SIFMA") rate and is reset annually.

**Tax Rebate Liability** — Under the Internal Revenue Code of 1986, the MTA may accrue a liability for an amount of rebateable arbitrage resulting from investing low-yielding, tax-exempt bond proceeds in higher-yielding, taxable securities. The arbitrage liability is payable to the federal government every five years. No accruals or payments were made during the periods ended September 30, 2019 and December 31, 2018.

**Liquidity Facility** — MTA and MTA Bridges and Tunnels have entered into several Standby Bond Purchase Agreements ("SBPA") and Letter of Credit Agreements ("LOC") as listed on the table below.

				Type of	
Resolution	Series	Swap	Provider (Insurer)	Facility	Exp. Date
Transportation Revenue	2002G-1g	Y	TD Bank, N.A.	LOC	11/1/2021
Transportation Revenue	2005D-2	Y	Helaba	LOC	11/10/2022
Transportation Revenue	2005E-1	Y	PNC Bank, National Association	LOC	8/20/2021
Transportation Revenue	2005E-2	Y	Bank of America, N.A.	LOC	12/10/2021
Transportation Revenue	2005E-1	Y	PNC Bank, National Association	LOC	8/20/2021
Transportation Revenue	2012A-2	N	Bank of Montreal	LOC	6/2/2022
Transportation Revenue	2012G-2	Y	TD Bank, N.A.	LOC	11/1/2021
Transportation Revenue	2015E-1	N	U.S. Bank National Association	LOC	8/20/2021
Transportation Revenue	2015E-3	N	Bank of America, N.A.	LOC	9/2/2022
Transportation Revenue	2015E-4	N	PNC Bank, National Association	LOC	9/3/2021
Dedicated Tax Fund	2002B-1	N	Bank of Tokyo Mitsbishi	LOC	3/22/2021
Dedicated Tax Fund	2008A-1	Y	TD Bank, N.A.	LOC	6/13/2022
MTA Bridges and Tunnels General Revenue	2001C	Y	State Street	LOC	6/26/2023
MTA Bridges and Tunnels General Revenue	2002F	Y	Citibank, N.A.	LOC	10/29/2021
MTA Bridges and Tunnels General Revenue	2003B-1	N	Bank of America, N.A.	LOC	1/21/2022
MTA Bridges and Tunnels General Revenue	2005A	Y	TD Bank, N.A.	LOC	1/28/2020
MTA Bridges and Tunnels General Revenue	2005B-2	Y	Citibank, N.A.	LOC	1/23/2021
MTA Bridges and Tunnels General Revenue	2005B-3	Y	State Street	LOC	6/26/2023
MTA Bridges and Tunnels General Revenue	2005B-4c	Y	U.S. Bank National Association	LOC	5/26/2022
MTA Bridges and Tunnels General Revenue	2018E	N	Bank of America, N.A.	LOC	12/12/2022



**Derivative Instruments** — Fair value for the swaps is calculated in accordance with GASB Statement No. 72, utilizing the income approach and Level 2 inputs. It incorporates the mid-market valuation, nonperformance risk of either MTA/ MTA Bridges and Tunnels or the counterparty, as well as bid/offer. The fair values were estimated using the zero-coupon method. This method calculates the future net settlement payments required by the swap, assuming that the current forward rates implied by the yield curve correctly anticipate future spot interest rates. These payments are then discounted using the spot rates implied by the current yield curve for hypothetical zero-coupon bonds due on the date of each future net settlement on the swap.

The fair value balances and notional amounts of derivative instruments outstanding at September 30, 2019 and December 31, 2018, classified by type, and the changes in fair value of such derivative instruments from the year ended December 31, 2018 are as follows (in \$ millions):

#### Derivative Instruments - Summary Information as of September 30, 2019

Bond Resolution Credit	Underlying Bond Series	Type of Derivative	Cash Flow or Fair Value Hedge	Effective Methodology	Trade/Hedge Association Date		ional ount F	air Value
Cashflow Hedges				9,			(Unaudite	ed)
MTA Bridges and Tunnels Senior Revenue Bonds	$2005B^{-2,3,4}$	Libor Fixed Payer	Cash Flow	Synthetic Instrument	6/2/2005		567.900	(111.574)
MTA Bridges and Tunnels Senior Revenue Bonds	2002F & 2003B-2 (Citi 2005B)	Libor Fixed Payer	Cash Flow	Synthetic Instrument	6/2/2005	\$	189.300 \$	(37.191)
MTA Bridges and Tunnels Senior Revenue Bonds	2005A (COPS 2004A)	Libor Fixed Payer	Cash Flow	Synthetic Instrument	4/1/2016		22.650	(3.023)
MTA Bridges and Tunnels Senior Revenue Bonds	2001C (COPS 2004A)	Libor Fixed Payer	Cash Flow	Synthetic Instrument	12/5/2016		21.275	(1.490)
MTA Dedicated Tax Fund Bonds	2008A	Libor Fixed Payer	Cash Flow	Synthetic Instrument	3/8/2005		324.670	(50.206)
MTA Transportation Revenue Bonds	2002D-2	Libor Fixed Payer	Cash Flow	Synthetic Instrument	7/11/2002		200.000	(74.485)
MTA Transportation Revenue Bonds	2005D & 2005E	Libor Fixed Payer	Cash Flow	Synthetic Instrument	9/10/2004		365.860	(76.203)
MTA Transportation Revenue Bonds	2012G	Libor Fixed Payer	Cash Flow	Synthetic Instrument	12/12/2007		356.775	(97.833)
MTA Transportation Revenue Bonds	2002G-1 (COPS 2004A)	Libor Fixed Payer	Cash Flow	Synthetic Instrument	4/1/2016		112.730	(9.018)
MTA Transportation Revenue Bonds	2011B (COPS 2004A)	Libor Fixed Payer	Cash Flow	Synthetic Instrument	4/1/2016		84.520	(17.304)
					Total	<b>\$</b> 2,	245.680 \$	(478.327)

#### **Derivative Instruments - Summary Information as of December 31, 2018**

Bond Resolution Credit	Underlying Bond Series	Type of Derivative	Cash Flow or Fair Value Hedge	Effective Methodology	Trade/Hedge Association Date	Notional Amount I	Fair Value
Cashflow Hedges						-	
MTA Bridges and Tunnels Senior Revenue Bonds	2002F & 2003B-2 (Citi 2005B)	Libor Fixed Payer	Cash Flow	Synthetic Instrument	6/2/2005	\$ 190.300 \$	(24.025)
MTA Bridges and Tunnels Senior Revenue Bonds	2005B-2,3,4	Libor Fixed Payer	Cash Flow	Synthetic Instrument	6/2/2005	570.900	(72.074)
MTA Bridges and Tunnels Senior Revenue Bonds	2005A (COPS 2004A)	Libor Fixed Payer	Cash Flow	Synthetic Instrument	4/1/2016	22.650	(2.339)
MTA Bridges and Tunnels Senior Revenue Bonds	2001C (COPS 2004A)	Libor Fixed Payer	Cash Flow	Synthetic Instrument	12/5/2016	40.275	(1.326)
MTA Bridges and Tunnels Subordinate Revenue Bonds	2000ABCD	SIFMA Fixed Payer	Cash Flow	Synthetic Instrument	8/12/1998	11.150	(0.264)
MTA Dedicated Tax Fund Bonds	2008A	Libor Fixed Payer	Cash Flow	Synthetic Instrument	3/8/2005	324.670	(36.330)
MTA Transportation Revenue Bonds	2002D-2	Libor Fixed Payer	Cash Flow	Synthetic Instrument	7/11/2002	200.000	(55.474)
MTA Transportation Revenue Bonds	2005D & 2005E	Libor Fixed Payer	Cash Flow	Synthetic Instrument	9/10/2004	365.860	(53.882)
MTA Transportation Revenue Bonds	2012G	Libor Fixed Payer	Cash Flow	Synthetic Instrument	12/12/2007	356.775	(66.854)
MTA Transportation Revenue Bonds	2002G-1 (COPS 2004A)	Libor Fixed Payer	Cash Flow	Synthetic Instrument	4/1/2016	127.660	(7.869)
MTA Transportation Revenue Bonds	2011B (COPS 2004A)	Libor Fixed Payer	Cash Flow	Synthetic Instrument	4/1/2016	69.590	(12.498)
					Total	\$ 2,279.830 \$	(332.935)



	Changes In	Fair Value	Fair Value at Sep	otember 30, 2019	
	Amount			Amount	Notional
	Classification	(in millions)	Classification	(in millions)	(in millions)
Government activities		(Unaudited)		(Unaudited)	(Unaudited)
Cash Flow hedges:					
Pay-fixed interest rate swaps	Deferred outflow of resources	\$(145.393)	Debt	\$(478.327)	\$2,245.680

# Swap Agreements Relating to Synthetic Fixed Rate Debt

Board-adopted Guidelines. The Related Entities adopted guidelines governing the use of swap contracts on March 26, 2002. The guidelines were amended and approved by the MTA Board on March 13, 2013. The guidelines establish limits on the amount of interest rate derivatives that may be outstanding and specific requirements that must be satisfied for a Related Entity to enter into a swap contract, such as suggested swap terms and objectives, retention of a swap advisor, credit ratings of the counterparties, collateralization requirements and reporting requirements.

Objectives of synthetic fixed rate debt. To achieve cash flow savings through a synthetic fixed rate, MTA and MTA Bridges and Tunnels have entered into separate pay-fixed, receive-variable interest rate swaps at a cost anticipated to be less than what MTA and MTA Bridges and Tunnels would have paid to issue fixed-rate debt, and in some cases where Federal tax law prohibits an advance refunding to synthetically refund debt on a forward basis.

*Terms and Fair Values.* The terms, fair values and counterparties of the outstanding swaps of MTA and MTA Bridges and Tunnels are reflected in the following tables (as of September 30, 2019).

Metropolitan Transportation Authority						
Related Bonds	Notional Amount as of 9/30/19 (Unaudited)	Effective Date	Maturity Date	Terms	Counterparty and Ratings(S&P / Moody's / Fitch)	Fair Value as of 9/30/19 (Unaudited)
TRB 2002D-2	\$ 200.000	01/01/07	11/01/32	Pay 4.45%; receive 69% 1M LIBOR	JPMorgan Chase Bank, NA (A+ / Aa2 / AA)	\$ (74.485)
TRB 2005D & 2005E	274.395	11/02/05	11/01/35	Pay 3.561%; receive 67% 1M LIBOR	UBS AG (A+ / Aa3 / AA-)	(57.152)
TRB 2005E	91.465	11/02/05	11/01/35	Pay 3.561%; receive 67% 1M LIBOR	AIG Financial Products (1) (BBB+ / Baa1 / BBB+)	(19.051)
TRB 2012G	356.775	11/15/12	11/01/32	Pay 3.563%; receive 67% 1M LIBOR	JPMorgan Chase Bank, NA (A+ / Aa2 / AA)	(97.833)
DTF 2008A	324.670	03/24/05	11/01/31	Pay 3.3156%; receive 67% 1M LIBOR	Bank of New York Mellon (AA-/Aa2/AA)	(50.206)
Total	\$ 1,247.305		•			\$ (298.727)

1 Guarantor: American International Group, Inc., parent of AIG Financial Products.



MTA Bridges and Tunnels						
Related Bonds	Notional Amount as of 9/30/19 (Unaudited)	Effective Date	Maturity Date	Terms	Counterparty and Ratings (S&P / Moody's / Fitch)	Fair Value as of 9/30/19 (Unaudited)
TBTA 2002F & 2003B-2	\$ 189.300	07/07/05	01/01/32	Pay 3.076%; receive 67% 1M LIBOR	Citibank, N.A. (A+/Aa3/A+)	\$ (37.191)
TBTA 2005B-2	189.300	07/07/05	01/01/32	Pay 3.076%; receive 67% 1M LIBOR	JPMorgan Chase Bank, NA (A+/Aa2/AA)	(37.191)
TBTA 2005B-3	189.300	07/07/05	01/01/32	Pay 3.076%; receive 67% 1M LIBOR	BNP Paribas US Wholesale Holdings, Corp. (1) (A+/Aa3/A+)	(37.192)
TBTA 2005B-4	189.300	07/07/05	01/01/32	Pay 3.076%; receive 67% 1M LIBOR	UBS AG (A+/Aa3/AA-)	(37.191)
TRB 2002G-1 & 2011B TBTA 2005A & 2001C <sup>2</sup>	120.588 <sup>3</sup>	04/01/16	01/01/30	Pay 3.52%; receive 67% 1M LIBOR	U.S. Bank N.A. (AA- / A1 / AA-)	(15.418) 3
TRB 2002G-1 & 2011B TBTA 2005A & 2001C 2	120.587 <sup>3</sup>	04/01/16	01/01/30	Pay 3.52%; receive 67% 1M LIBOR	Wells Fargo Bank, N.A. (A+ / Aa2 / AA-)	(15.417) 3
Total	\$ 998.375					\$ (179.600)

<sup>1</sup> Guarantor: BNP Paribas.

LIBOR: London Interbank Offered Rate TRB: Transportation Revenue Bonds DTF: Dedicated Tax Fund Bonds

#### Risks Associated with the Swap Agreements

From MTA's and MTA Bridges and Tunnels' perspective, the following risks are generally associated with swap agreements:

Credit Risk. The risk that a counterparty becomes insolvent or is otherwise not able to perform its financial obligations. To mitigate the exposure to credit risk, the swap agreements include collateral provisions in the event of downgrades to the swap counterparties' credit ratings. Generally, MTA and MTA Bridges and Tunnels' swap agreements contain netting provisions under which transactions executed with a single counterparty are netted to determine collateral amounts. Collateral may be posted with a third-party custodian in the form of cash, U.S. Treasury securities, or certain Federal agency securities. MTA and MTA Bridges and Tunnels require its counterparties to fully collateralize if ratings fall below certain levels (in general, at the Baa1/BBB+ or Baa2/BBB levels), with partial posting requirements at higher rating levels (details on collateral posting discussed further under "Collateralization/Contingencies"). As of September 30, 2019, all of the valuations were in liability positions to MTA and MTA Bridges and Tunnels; accordingly, no collateral was posted by any of the counterparties.

The following table shows, as of September 30, 2019, the diversification, by percentage of notional amount, among the various counterparties that have entered into ISDA Master Agreements with MTA and/or MTA Bridges and Tunnels. The notional amount totals below include all swaps.

Counterparty	S&P	Moody's	Fitch	Notional Amount (in thousands) (Unaudited)	% of Total Notional Amount (Unaudited)
JPMorgan Chase Bank, NA	A+	Aa2	AA	\$746,075	33.22%
UBS AG	A+	Aa3	AA-	463,695	20.65
The Bank of New York Mellon	AA-	Aa2	AA	324,670	14.46
Citibank, N.A.	A+	Aa3	A+	189,300	8.43
BNP Paribas US Wholesale Hodings,					
Corp	A+	Aa3	A+	189,300	8.43
U.S. Bank National Association	AA-	A1	AA-	120,588	5.37
Wells Fargo Bank, N.A.	A+	Aa2	AA-	120,587	5.37
AIG Financial Products Corp.	BBB+	Baa1	BBB+	91,465	4.07
Total				\$2,245,680	100.00%

<sup>2</sup> Between November 22, 2016 and December 5, 2016, the Variable Rate Certificates of Participation, Series 2004A were redeemed. Corresponding notional amounts from the Series 2004A COPs were reassigned to MTA Bridges and Tunnels General Revenue Variable Rate Bonds, Series 2001C.

<sup>3</sup> Pursuant to an Interagency Agreement (following novations from UBS in April 2016), MTA New York City Transit is responsible for 68.7%, MTA is responsible for 21.0%, and TBTA is responsible for 10.3% of the transaction.



*Interest Rate Risk*. MTA and MTA Bridges and Tunnels are exposed to interest rate risk on the interest rate swaps. On the pay-fixed, receive variable interest rate swaps, as LIBOR decreases, MTA and MTA Bridges and Tunnels' net payments on the swaps increase.

Basis Risk. The risk that the variable rate of interest paid by the counterparty under the swap and the variable interest rate paid by MTA or MTA Bridges and Tunnels on the associated bonds may not be the same. If the counterparty's rate under the swap is lower than the bond interest rate, then the counterparty's payment under the swap agreement does not fully reimburse MTA or MTA Bridges and Tunnels for its interest payment on the associated bonds. Conversely, if the bond interest rate is lower than the counterparty's rate on the swap, there is a net benefit to MTA or MTA Bridges and Tunnels.

Termination Risk. The risk that a swap agreement will be terminated and MTA or MTA Bridges and Tunnels will be required to make a swap termination payment to the counterparty and, in the case of a swap agreement which was entered into for the purpose of creating a synthetic fixed rate for an advance refunding transaction may also be required to take action to protect the tax-exempt status of the related refunding bonds.

The ISDA Master Agreement sets forth certain termination events applicable to all swaps entered into by the parties to that ISDA Master Agreement. MTA and MTA Bridges and Tunnels have entered into separate ISDA Master Agreements with each counterparty that govern the terms of each swap with that counterparty, subject to individual terms negotiated in a confirmation. MTA and MTA Bridges and Tunnels are subject to termination risk if its credit ratings fall below certain specified thresholds or if MTA/MTA Bridges and Tunnels commits a specified event of default or other specified event of termination. If, at the time of termination, a swap were in a liability position to MTA or MTA Bridges and Tunnels, a termination payment would be owed by MTA or MTA Bridges and Tunnels to the counterparty, subject to applicable netting arrangements.

The following tables set forth the Additional Termination Events for MTA/MTA Bridges and Tunnels and its counterparties.

MTA Transportation Revenue				
Counterparty Name	MTA	Counterparty		
AIG Financial Products Corp.; JPMorgan Chase Bank, NA; UBS AG	Below Baa3 (Moody's) or BBB- (S&P)*	Below Baa3 (Moody's) or BBB- (S&P)*		

<sup>\*</sup>Note: Equivalent Fitch rating is replacement for Moody's or S&P.

MTA Dedicated Tax Fund				
Counterparty Name MTA Counterparty				
Bank of New York Mellon	Below BBB (S&P) or BBB (Fitch)*	Below A3 (Moody's) or A- (S&P)**		

<sup>\*</sup>Note: Equivalent Moody's rating is replacement for S&P or Fitch.

<sup>\*\*</sup>Note: Equivalent Fitch rating is replacement for Moody's or S&P.

MTA Bridges and Tunnels Senior Lien				
Counterparty Name	MTA Bridges and Tunnels	Counterparty		
BNP Paribas US Wholesale Holdings, Corp.; Citibank, N.A.; JPMorgan Chase Bank, NA; UBS AG	Below Baa2 (Moody's) or BBB (S&P)*	Below Baa1 (Moody's) or BBB+ (S&P)*		

<sup>\*</sup>Note: Equivalent Fitch rating is replacement for Moody's or S&P.

MTA Bridges and Tunnels Subordinate Lien			
Counterparty Name MTA Bridges and Tunnels Counterparty			
U.S. Bank National Association; Wells Fargo Bank, N.A.	BelowBaa2 (Moody's) or BBB (S&P)*	Below Baa2 (Moody's) or BBB (S&P)**	

<sup>\*</sup>Note: Equivalent Fitch rating is replacement for Moody's or S&P. If not below Investment Grade, MTA Bridges and Tunnels may cure such Termination Event by posting collateral at a Zero threshold.

<sup>\*\*</sup>Note: Equivalent Fitch rating is replacement for Moody's or S&P.



MTA and MTA Bridges and Tunnels' ISDA Master Agreements provide that the payments under one transaction will be netted against other transactions entered into under the same ISDA Master Agreement. Under the terms of these agreements, should one party become insolvent or otherwise default on its obligations, close-out netting provisions permit the non-defaulting party to accelerate and terminate all outstanding transactions and net the amounts so that a single sum will be owed by, or owed to, the non-defaulting party.

*Rollover Risk.* The risk that the swap agreement matures or may be terminated prior to the final maturity of the associated bonds on a variable rate bond issuance, and MTA or MTA Bridges and Tunnels may be exposed to then market rates and cease to receive the benefit of the synthetic fixed rate for the duration of the bond issue. The following debt is exposed to rollover risk:

Associated Bond Issue	<b>Bond Maturity Date</b>	Swap Termination Date
MTA Bridges and Tunnels General Revenue Variable Rate Bonds, Series 2001C (swaps with U.S. Bank/Wells Fargo)	January 1, 2032	January 1, 2030
MTA Bridges and Tunnels General Revenue Variable Rate Refunding Bonds, Series 2002F (swap with Citibank, N.A.)	November 1, 2032	January 1, 2032
MTA Bridges and Tunnels General Revenue Variable Rate Bonds, Series 2003B (swap with Citibank, N.A.)	January 1, 2033	January 1, 2032
MTA Bridges and Tunnels General Revenue Variable Rate Bonds, Series 2005A (swaps with U.S. Bank/Wells Fargo and Citibank, N.A.)	November 1, 2035	January 1, 2030 (U.S. Bank/Wells Fargo) January 1, 2032 (Citibank)
MTA Transportation Revenue Variable Rate Bonds, Series 2011B (swaps with U.S. Bank/Wells Fargo)	November 1, 2041	January 1, 2030

Collateralization/Contingencies. Under the majority of the swap agreements, MTA and/or MTA Bridges and Tunnels is required to post collateral in the event its credit rating falls below certain specified levels. The collateral posted is to be in the form of cash, U.S. Treasury securities, or certain Federal agency securities, based on the valuations of the swap agreements in liability positions and net of the effect of applicable netting arrangements. If MTA and/or MTA Bridges and Tunnels do not post collateral, the swap(s) may be terminated by the counterparty(ies).

As of September 30, 2019, the aggregate mid-market valuation of the MTA's swaps subject to collateral posting agreements was (\$256.505); as of this date, the MTA was not subject to collateral posting based on its credit ratings (see further details below).

As of September 30, 2019, the aggregate mid-market valuation of MTA Bridges and Tunnels' swaps subject to collateral posting agreements was (\$180.529); as of this date, MTA Bridges and Tunnels was not subject to collateral posting based on its credit ratings (see further details below).

The following tables set forth the ratings criteria and threshold amounts applicable to MTA/MTA Bridges and Tunnels and its counterparties.

MTA Transportation Revenue				
Counterparty	MTA Collateral Thresholds (based on highest rating)	Counterparty Collateral Thresholds (based on highest rating)		
AIG Financial Products Corp.; JPMorgan Chase Bank, NA; UBS AG	Baa1/BBB+: \$10 million Baa2/BBB & below: Zero	Baa1/BBB+: \$10 million Baa2/BBB & below: Zero		

Note: Based on Moody's and S&P ratings. In all cases except JPMorgan counterparty thresholds, Fitch rating is replacement for either Moody's or S&P, at which point threshold is based on lowest rating.

MTA Dedicated Tax Fund			
Counterparty	MTA Collateral Thresholds	Counterparty Collateral Thresholds (based on lowest rating)	
Bank of New York Mellon	N/A–MTA does not post collateral	Aa3/AA- & above: \$10 million A1/A+: \$5 million A2/A: \$2 million A3/A-: \$1 million Baa1/BBB+ & below: Zero	

Note: Counterparty thresholds based on Moody's and S&P ratings. Fitch rating is replacement for either Moody's or S&P.



MTA Bridges and Tunnels Senior Lien				
Counterparty	MTA Bridges and Tunnels Collateral Thresholds (based on highest rating)	Counterparty Collateral Thresholds (based on highest rating)		
BNP Paribas US Wholesale Holdings, Corp.; Citibank, N.A.; JPMorgan Chase Bank, NA; UBS AG	Baa1/BBB+: \$30 million Baa2/BBB: \$15 million Baa3/BBB- & below: Zero	A3/A-: \$10 million Baa1/BBB+ & below: Zero		

Note: MTA Bridges and Tunnels thresholds based on Moody's, S&P, and Fitch ratings. Counterparty thresholds based on Moody's and S&P ratings; Fitch rating is replacement for Moody's or S&P.

MTA Bridges and Tunnels Subordinate Lien				
Counterparty	MTA Bridges and Tunnels Collateral Thresholds (based on lowest rating)	Counterparty Collateral Thresholds (based on lowest rating)		
U.S. Bank National Association; Wells Fargo Bank, N.A.	Baa3/BBB- & below: Zero (note: only applicable as cure for Termination Event)	Aa3/AA- & above: \$15 million A1/A+ to A3/A-: \$5 million Baa1/BBB+ & below: Zero		

Note: Thresholds based on Moody's and S&P ratings. Fitch rating is replacement for Moody's or S&P.

Swap payments and Associated Debt. The following tables contain the aggregate amount of estimated variable- rate bond debt service and net swap payments during certain years that such swaps were entered into in order to: protect against the potential of rising interest rates; achieve a lower net cost of borrowing; reduce exposure to changing interest rates on a related bond issue; or, in some cases where Federal tax law prohibits an advance refunding, achieve debt service savings through a synthetic fixed rate. As rates vary, variable-rate bond interest payments and net swap payments will vary. Using the following assumptions, debt service requirements of MTA's and MTA Bridges and Tunnels' outstanding variable-rate debt and net swap payments are estimated to be as follows:

- It is assumed that the variable-rate bonds would bear interest at a rate of 4.0% per annum.
- The net swap payments were calculated using the actual fixed interest rate on the swap agreements.

		MTA									
(in millions)											
Period Ended	Variable-l	Rate Bonds									
<b>September 30, 2019</b>	Principal	Interest	Net Swap Payments	Total							
2019	55.6	48.6	(5.2)	99.0							
2020	38.4	46.5	(4.9)	80.0							
2021	58.3	44.9	(4.7)	98.5							
2022	63.3	42.6	(4.4)	101.4							
2023	65.7	40.1	(4.1)	101.6							
2024-2028	328.7	173.3	(15.5)	486.6							
2029-2033	790.8	423.2	(6.5)	1,207.6							
2034-2038	108.4	22.7	(1.1)	130.1							

	M	TA Bridges and Tunn	els							
(in millions)										
Period Ended	Variable-R	ate Bonds								
September 30, 2019	Principal	Interest	Net Swap Payments	Total						
2019	43.4	38.0	(6.9)	74.5						
2020	25.4	37.0	(6.9)	55.6						
2021	26.6	36.0	(6.8)	55.8						
2022	27.6	34.9	(6.8)	55.7						
2023	28.6	33.8	(6.8)	55.6						
2024-2028	201.9	144.5	(32.0)	314.4						
2029-2033	644.2	43.2	(10.1)	677.3						
2034-2038	-	2.5	-	2.5						



#### 8. LEASE TRANSACTIONS

Leveraged Lease Transactions: Qualified Technological Equipment — On December 19, 2002, the MTA entered into four sale/leaseback transactions whereby MTA New York City Transit transferred ownership of certain MTA New York City Transit qualified technological equipment ("QTE") relating to the MTA New York City Transit automated fare collection system to the MTA. The MTA sold that equipment to third parties and the MTA leased that equipment back from such third parties. Three of those four leases were terminated early and are no longer outstanding. The fourth lease expires in 2022, at which point the MTA has the option of either exercising a fixed-price purchase option for the equipment or returning the equipment to the third-party owner.

Under the terms of the outstanding sale/leaseback agreement the MTA initially received \$74.9, which was utilized as follows: The MTA paid \$52.1 to an affiliate of the lender to the third party, which affiliate has the obligation to pay to MTA an amount equal to the rent obligations under the lease attributable to the debt service on the loan from the third party's lender. The MTA also purchased U.S. Treasury debt securities in amounts and with maturities, which are expected to be sufficient to pay the remainder of the regularly scheduled lease rent payments under the lease and the purchase price due upon exercise by the MTA of the related purchase option if exercised.

Leveraged Lease Transaction: Subway Cars — On September 3, 2003, the MTA entered into a sale/leaseback transaction whereby MTA New York City Transit transferred ownership of certain MTA New York City Transit subway cars to the MTA, the MTA sold those cars to a third party, and the MTA leased those cars back from such third party. The MTA subleased the cars to MTA New York City Transit. The lease expires in 2033. At the lease expiration, the MTA has the option of either exercising a fixed-price purchase option for the cars or returning the cars to the third-party owner.

Under the terms of the sale/leaseback agreement, the MTA initially received \$168.1, which was utilized as follows: The MTA paid \$126.3 to an affiliate of one of the lenders to the third party, which affiliate has the obligation to pay to the MTA an amount equal to the rent obligations under the lease attributable to the debt service on such loan from such third party's lender. The obligations of the affiliate of the third party's lender are guaranteed by American International Group, Inc. The MTA also purchased the Federal National Mortgage Association ("FNMA") and U.S. Treasury securities in amounts and with maturities which are sufficient to make the lease rent payments equal to the debt service on the loans from the other lender to the third party and to pay the remainder of the regularly scheduled rent due under that lease and the purchase price due upon exercise by the MTA of the fixed price purchase option if exercised. The amount remaining after payment of transaction expenses, \$7.4, was the MTA's benefit from the transaction.

Leveraged Lease Transactions: Subway Cars — On September 25, 2003 and September 29, 2003, the MTA entered into two sale/leaseback transactions whereby MTA New York City Transit transferred ownership of certain MTA New York City Transit subway cars to the MTA, the MTA sold those cars to third parties, and the MTA leased those cars back from such third parties. The MTA subleased the cars to MTA New York City Transit. Both leases expire in 2033. At the lease expiration, MTAHQ has the option of either exercising a fixed-price purchase option for the cars or returning the cars to the third-party owner.

Under the terms of the sale/leaseback agreements, the MTA initially received \$294, which was utilized as follows: In the case of one of the leases, the MTA paid \$97 to an affiliate of one of the lenders to the third party, which affiliate has the obligation to pay to the MTA an amount equal to the rent obligations under the lease attributable to the debt service on the loan from such third party's lender. The obligations of the affiliate of such third party's lender are guaranteed by American International Group, Inc. In the case of the other lease, the MTA purchased U.S. Treasury debt securities in amounts and with maturities, which are sufficient for the MTA to make the lease rent payments equal to the debt service on the loan from the lender to that third party. In the case of both of the leases, the MTA also purchased Resolution Funding Corporation ("REF-CO") debt securities that mature in 2030. Under an agreement with AIG Matched Funding Corp. (guaranteed by American International Group, Inc.), AIG Matched Funding Corp. receives the proceeds from the REFCO debt securities at maturity and is obligated to pay to the MTA amounts sufficient for the MTA to pay the remainder of the regularly scheduled lease rent payments under those leases and the purchase price due upon exercise by the MTA of the purchase options if exercised. The amount remaining after payment of transaction expenses, \$24, was the MTA's net benefit from these two transactions.

On September 16, 2008, the MTA learned that American International Group, Inc. was downgraded to a level that under the terms of the transaction documents for the sale/leaseback transaction that closed on September 29, 2003, the MTA was required to replace or restructure the applicable Equity Payment Undertaking Agreement provided by AIG Financial Products Corp. and guaranteed by American International Group, Inc. On December 17, 2008, MTA terminated the Equity Payment Undertaking Agreement provided by AIG Financial Products Corp. and guaranteed by American International Group, Inc. and provided replacement collateral in the form of U.S. Treasury strips. REFCO debt security that was being held in pledge was released to MTA. On November 6, 2008, the MTA learned that Ambac Assurance Corp., the provider of the credit enhancement that insures the MTA's contingent obligation to pay a portion of the termination values upon an early termination in both the September 25, 2003 and September 29, 2003 transactions, was downgraded to a level that required the provision of new credit enhancement facilities for each lease by December 21, 2008.



On December 17, 2008, MTA terminated the Ambac Assurance Corp. surety bond for the lease transaction that closed on September 25, 2003 and since then MTA has provided short-term U.S. Treasury debt obligations as replacement collateral. As of September 30, 2019, the market value of total collateral funds was \$38.5.

On January 12, 2009, MTA provided a short-term U.S.Treasury debt obligation as additional collateral in addition to the Ambac Assurance Corp. surety bond for the lease transaction that closed on September 29, 2003. From time to time, additional collateral has been required to be added such that the total market value of the securities being held as additional collateral are expected to be sufficient to pay the remainder of the regularly scheduled lease rent payments under the lease. As of September 30, 2019, the market value of total collateral funds was \$54.3.

MTA Hudson Rail Yards Ground Leases – In the 1980's, the MTA developed a portion of the Hudson Rail Yards as a storage yard, car wash and repair facility for the Long Island Railroad Company ("LIRR") rail cars entering Manhattan.It was anticipated that, eventually, the air rights above the Hudson Rail Yards would be developed to meet the evolving needs for high-quality commercial, retail, residential and public space in Manhattan.The Hudson Rail Yards is a rectangular area of approximately 26-acres bounded by 10th Avenue on the east, 12th Avenue on the west, 30th Street on the south and 33rd Street on the North.The Hudson Rail Yards is divided into the Eastern Rail Yards ("ERY") and the Western Rail Yards ("WRY").In 2008, the MTA selected a development team led by the Related Companies, L.P to develop a commercial, residential and retail development on the ERY and the WRY.

To undertake the development of the Hudson Rail Yards, the MTA entered into 99-year ground leases ("Balance Leases") for the airspace above a limiting plane above the tracks (from 31st to 33rd Streets) and the area where there are no rail tracks (from 30th to 31st Streets) within the boundary of the Hudson Rail Yards ("Ground Leased Property"). The Balance Leases do not encumber the railroad tracks, which will continue to be used for transportation purposes.

The following ground leases, each with a 99-year term (beginning December 3, 2012), entered into between the MTA, as landlord, and a special purpose entity controlled by Related-Oxford, as Ground Lease tenants, all of which Ground Leases demise the Eastern Rail Yards ("ERY") and were severed from the ERY Balance Lease, dated as of April 10, 2013:

- the Ground Lease demising the Tower A Severed Parcel, also known as 30 Hudson Yards.
- the Ground Lease demising the Tower D Severed Parcel, also known as 15 Hudson Yards.
- the Ground Lease demising the Tower E Severed Parcel, also known as 35 Hudson Yards.
- the Ground Lease demising the Retail Podium Severed Parcel.
- the Ground Lease demising the Retail Pavilion Parcel.

The 99-year West Side Rail Yard ("WRY") Balance Lease (beginning December 3, 2013) between the MTA and a special purpose entity controlled by Related-Oxford demising the WRY and the Severed Parcel Leases to be entered into upon the creation of Severed Parcels that may be severed from the WRY, at the option of the applicable Ground Lease Tenant, upon satisfaction of certain conditions, in order to construct improvements thereon in accordance with the terms of the applicable Severed Parcel Lease.

Both the ERY and WRY Ground Leases were pledged as security for the Series 2016A Hudson Yards Trust Obligations.

The MTA has also entered into the following ground leases which do not provide a source of payment or security for the Series 2016A Hudson Yards Trust Obligations:

- the now-terminated ground lease demising Tower C, also known as 10 Hudson Yards, as to which the Ground Lease tenant closed on its exercise of its Fee Conversion Option on August 1, 2016 for which MTA received \$120.
- the ground lease demising the Culture Shed, which does not pay any Monthly Ground Rent, and
- the ground lease demising the Open Space Severed Parcel which does not pay any Monthly Ground Rent.

The Severed Parcel Ground Leases required Ground Lease Tenants, at their sole cost and expense, to construct the Long Island Railroad Roof ("LIRR Roof") over the Long Island Railroad tracks in the Hudson Rail Yards, which LIRR Roof will serve as the foundation for substantial portions of the buildings and other improvements being constructed pursuant to each Severed Parcel Ground Lease. Each Ground Lease tenant has the option to purchase fee title to the Ground Leased Property at any time following completion of construction of the building on the Ground Leased Property.



The MTA has classified the ERY and WRY Ground Leases as operating leases. If at the inception of the ground leases, the leases meet one or more of the following four criteria, the lease should be classified as a capital lease. Otherwise, it should be classified as an operating lease. The ERY and WRY Ground Leases did not meet one or more of the following criteria:

- i. The lease transfers ownership of the property to the lessee by the end of the lease term.
- ii. The lease contains a bargain purchase option.
- iii. The lease term is equal to 75 percent or more of the estimated economic life of the leased property.
- iv. The present value at the beginning of the lease term of the minimum lease payments, equals or exceeds 90 percent of the excess of the fair value of the leased property to the lessor at the inception of the lease over any related investment tax credit retained by and expected to be realized by the lessor.

Minimum rent receipts for ERY and WRY Ground Leases are as follows as of September 30, 2019 (unaudited):

Year	ERY	WRY	Total
2019	\$ 5	\$ 4	\$ 9
2020	19	16	35
2021	19	32	51
2022	19	33	52
2023	19	33	52
Thereafter	868	1,525	2,393
Total	\$ 949	\$ 1,643	\$ 2,592

Other Lease Transactions — On July 29, 1998 the MTA, (solely on behalf of MTA Long Island Rail Road and MTA Metro-North Railroad, MTA New York City Transit, and MTA Bridges and Tunnels) entered into a lease and related agreements whereby each agency, as sublessee, will rent, an office building at Two Broadway in lower Manhattan. The triple-net-lease has an initial stated term of approximately 50 years, with the right to extend the lease for two successive 15-year periods at a rental of at least 95% of fair market rent. Remaining payments under the lease approximate \$1.1 billion. Under the subleases, the lease is apportioned as follows: MTA New York City Transit, 68.7%, MTA, 21%; and MTA Bridges and Tunnels, 10.3%. However, the involved agencies have agreed to sub-sublease space from one another as necessary to satisfy actual occupancy needs. The agencies will be responsible for obligations under the lease based on such actual occupancy percentages. Actual occupancy percentages at September 30, 2019, for the MTA New York City Transit, MTA Bridges and Tunnels and MTA (including MTA Bus, MTA Capital Construction Company and MTA Business Service Center) were 57.6%, 7.5% and 34.9%, respectively. MTAs' sublease is for a year-to-year term, automatically extended, except upon the giving of a non-extension notice by MTA. The lease is comprised of both operating and capital elements, with the portion of the lease attributable to the land recorded as an operating lease, and the portion of the lease attributable to the building recorded as a capital lease. The total annual rental payments over the initial lease term are \$1,602 with rent being abated from the commencement date through June 30, 1999. The office building at 2 Broadway, is principally occupied by MTA New York City Transit, MTA Bridges and Tunnels, MTA Capital Construction, and MTAHQ.

MTA reflected a capital lease obligation as of September 30, 2019 and December 31, 2018 of \$234 and \$234, respectively. The MTA made rent payments of \$21 and \$25 for the period ended September 30, 2019 and December 31, 2018, respectively. MTA pays the lease payments on behalf of MTA New York City Transit and MTA Bridges and Tunnels and subsequently makes monthly chargebacks in the form of rental payments. During 2018, the total of the rental payments charged to MTA New York City Transit and MTA Bridges and Tunnels was \$4.52 and \$1.84 less, respectively, than the lease payment made by MTA on behalf of MTA New York City Transit and MTA Bridges and Tunnels.

The adjusted capital lease for the aforementioned building is being amortized over the remaining life of the lease. The cost of the building and related accumulated amortization at September 30, 2019 and December 31, 2018, is as follows (in millions):

	September 30,	December 31,
	2019	2018
	(Unaudited)	
Capital lease - building	\$196	\$196
Less accumulated amortization	(95)	(92)
Capital lease - building - net	\$101	\$104

On April 8, 1994, the MTA amended its lease for the Harlem/Hudson line properties, including Grand Central Terminal. This amendment initially extends the lease term, previously expiring in 2031, an additional 110 years and, pursuant to several other provisions, an additional 133 years. In addition, the amendment grants the MTA an option to purchase the



leased property after the 25th anniversary of the amended lease, subject to the owner's right to postpone such purchase option exercise date for up to an additional 15 years if the owner has not yet closed the sale, transfer or conveyance of an aggregate amount of 1,000,000 square feet or more of development rights appurtenant to Grand Central Terminal and the associated zoning lots. The amended lease comprises both operating (for the lease of land) and capital (for the lease of buildings and track structure) elements.

In August 1988, the MTA entered into a 99-year lease agreement with Amtrak for Pennsylvania Station. This agreement, with an option to renew, is for rights to the lower concourse level and certain platforms.

The \$45 paid to Amtrak by the MTA under this agreement is included in other assets. This amount is being amortized over 30 years.

Total rent expense under operating leases approximated \$52.6 and \$52.8 for the periods ended September 30, 2019 and 2018, respectively.

At September 30, 2019, the future minimum lease payments under non-cancelable leases are as follows (in millions):

Years	 Operating	Capital
	(Unaudited	d)
2019	\$ 41 \$	24
2020	77	33
2021	75	24
2022	80	75
2023	80	19
2024–2028	416	107
2029–2033	446	557
2034–2038	313	158
2039–2043	275	175
2044–2048	264	174
Thereafter	 261	200
Future minimum lease payments	\$ 2,328	1,546
Amount representing interest		(1,099)
Total present value of capital lease obligations		447
Less current present value of capital lease obligations		16
Noncurrent present value of capital lease obligations	<u>\$</u>	431

#### **Capital Leases Schedule**

For the Nine-Month Period Ended

	Decen	ıber 31,			September 30,		
Description	20	018	Increase	Decrease	2	2019	
			(Unaud	ited)	(Una	audited)	
Sumitomo	\$	15 \$	-	\$	- \$	15	
Met Life		6	-		-	6	
Met Life Equity		19	-		-	19	
Bank of New York		22	-		-	22	
Bank of America		39	-		-	39	
Bank of America Equity		16	-		-	16	
Sumitomo		27	1		-	28	
Met Life Equity		55	-		-	55	
Grand Central Terminal & Harlem Hudson Railroad Lines		14	-		1	13	
2 Broadway Lease Improvement		177	-		-	177	
2 Broadway		57	-		-	57	
Total MTA Capital Lease	\$	447 \$	1	\$	1 \$	447	
Current Portion Obligations under Capital Lease		4				16	
Long Term Portion Obligations under Capital Lease	\$	443			\$	431	



#### **Capital Leases Schedule**

For the Year Ended December 31, 2018

	Decem	ber 31,			December 31,
Description	20	17	Increase	Decrease	2018
Sumitomo	\$	15 \$	- \$	-	\$ 15
Met Life		6	-	-	6
Met Life Equity		19	-	-	19
Bank of New York		22	-	-	22
Bank of America		37	2	-	39
Bank of America Equity		16	-	-	16
Sumitomo		31	1	5	27
Met Life Equity		52	3	-	55
Grand Central Terminal & Harlem Hudson Railroad Lines		14	-	-	14
2 Broadway Lease Improvement		173	4	-	177
2 Broadway		55	2	-	57
Total MTA Capital Lease	\$	440 \$	12 \$	5	\$ 447
Current Portion Obligations under Capital Lease		4			4
Long Term Portion Obligations under Capital Lease	\$	436			\$ 443

#### 9. FUTURE OPTION

In 2010, MTA and MTA Long Island Railroad entered into an Air Space Parcel Purchase and Sale Agreement ("Agreement") with Atlantic Yards Development Company, LLC ("AADC") pursuant to which AADC has obtained an exclusive right to purchase fee title to a parcel (subdivided into six sub-parcels) of air space above the MTA Long Island Railroad Vanderbilt Yard in Brooklyn, New York. Initial annual payments of \$2 (covering all six sub-parcels) commenced on June 1, 2012 and were paid on the following three anniversaries of that date. Starting on June 1, 2016, and continuing on each anniversary thereof through and including June 1, 2031, an annual option payment in the amount of \$11 is due. The Agreement provides that all such payments are (i) fully earned by MTA as of the date due in consideration of the continuing grant to AADC of the rights to purchase the air space sub-parcels, (ii) are non-refundable except under certain limited circumstances and (iii) shall be deemed to be payments on account of successive annual options granted to AADC.

After AADC and its affiliates have completed the new yard and transit improvements to be constructed by them at and in the vicinity of the site, AADC has the right from time to time until June 1, 2031, to close on the purchase of any or all of the six air rights sub-parcels. The purchase price for the six sub-parcels is an amount, when discounted at 6.5% per annum from the date of each applicable payment that equals a present value of \$80 as of January 1, 2010. The purchase price of any particular air space sub-parcel is equal to a net present value as of January 1, 2010 (calculated based on each applicable payment) of the product of that sub-parcel's percentage of the total gross square footage of permissible development on all six air space sub-parcels multiplied by \$80.

# 10. ESTIMATED LIABILITY ARISING FROM INJURIES TO PERSONS

A summary of activity in estimated liability as computed by actuaries arising from injuries to persons, including employees, and damage to third-party property for the period ended September 30, 2019 and year ended December 31, 2018 is presented below (in millions):

		nber 30, 019	2018
	(Una	udited)	
Balance - beginning of year	\$	4,254	\$ 3,851
Activity during the year:			
Current year claims and changes in estimates		604	870
Claims paid		(401)	(467)
Balance - end of year		4,457	4,254
Less current portion		(451)	 (454)
Long-term liability	\$	4,006	\$ 3,800

See Note 2 for additional information on MTA's liability and property disclosures.



#### 11. COMMITMENTS AND CONTINGENCIES

The MTA Group monitors its properties for the presence of pollutants and/or hazardous wastes and evaluates its exposure with respect to such matters. When the expense, if any, to clean up pollutants and/or hazardous wastes is estimable it is accrued by the MTA (see Note 12).

Management has reviewed with counsel all actions and proceedings pending against or involving the MTA Group, including personal injury claims. Although the ultimate outcome of such actions and proceedings cannot be predicted with certainty at this time, management believes that losses, if any, in excess of amounts accrued resulting from those actions will not be material to the financial position, results of operations, or cash flows of the MTA.

Under the terms of federal and state grants, periodic audits are required and certain costs may be questioned as not being appropriate expenditures under the terms of the grants. Such audits could lead to reimbursements to the grantor agencies. While there have been some questioned costs in recent years, ultimate repayments required of the MTA have been infrequent.

**Financial Guarantee** — *Moynihan Station Development Project* - On May 22, 2017, the MTA Board approved entering into various agreements, including a Joint Services Agreement ("JSA"), necessary to effectuate Phase 2 of the Moynihan Station Development Project (the "Project"), which will entail the redevelopment of the James A. Farley Post Office Building to include a new world-class train hall to be shared by National Railroad Passenger Corporation ("Amtrak"), the Long Island Rail Road and Metro-North Commuter Railroad (the "Train Hall"), as well as retail and commercial space (Retail and Commercial Space).

On July 21, 2017, New York State Urban Development Corporation d/b/a Empire State Development ("ESD") executed a TIFIA Loan Agreement with the United States Department of Transportation (the "TIFIA Lender") in an amount of up to \$526 (the "TIFIA Loan"), with a final maturity date of the earlier of (1) October 30, 2055 and (2) the last semi-annual payment date occurring no later than the date that is thirty-five (35) years following the date on which the Train Hall is substantially completed. The proceeds of the TIFIA Loan are being used to pay for costs of the construction of the Train Hall. The TIFIA Loan is secured by a mortgage on the Train Hall property. The principal and interest on the TIFIA Loan is payable from a pledged revenue stream that primarily consists of PILOT payments to be paid by certain tenants in the Retail and Commercial Space. The amount of the PILOT payments is fixed through September, 2030 and is thereafter calculated based upon the assessed value of the properties as determined by New York City. The TIFIA Loan is further supported by a TIFIA Debt Service Reserve Account, which is funded in an amount equal to the sum of the highest aggregate TIFIA debt service amounts that will become due and payable on any two consecutive semi-annual payment dates in a five-year prospective period.

Simultaneously with the execution of the TIFIA Loan Agreement, the JSA was entered into by and among the MTA, the TIFIA Lender, ESD, and Manufacturers and Traders Trust Company (as Pilot trustee). Under the JSA, MTA is obligated to satisfy semi-annual deficiencies in the TIFIA Debt Service Reserve Account. MTA's obligations under the JSA are secured by the same moneys available to MTA for the payment of the operating and maintenance expenses of the operating agencies.

MTA's obligation under the JSA remains in effect until the earliest to occur of (a) the MTA JSA Release Date (as defined in the JSA and generally summarized below), (b) the date on which the TIFIA Loan has been paid in full and (c) foreclosure by the TIFIA Lender under the Mortgage (as defined in the TIFIA Loan Agreement).

The obligations of the MTA under the JSA will be terminated and released on the date (the "MTA JSA Release Date") on which each of the following conditions have been satisfied: (a) substantial completion of (1) the Train Hall Project and initiation by LIRR and Amtrak of transportation operations therein, and (2) the Retail and Commercial Space; (b) all material construction claims have been discharged or settled; (c) the PILOT payments have been calculated based upon assessed value for at least three years (i.e., 2033); (d) certain designated defaults or events of default under the TIFIA Loan Agreement have not occurred and are continuing; and (e) either of the following release tests shall have been satisfied:

- Release Test A: (a) certain debt service coverage ratios have equaled or exceeded levels set forth in the JSA, taking into consideration assessment appeals; (b) occupancy levels have equaled or exceeded levels set forth in the JSA; and (c) the TIFIA Loan is rated no lower than "BBB-" or "Baa3" by one rating agency, all as more fully described in the JSA; or
- Release Test B: the TIFIA Loan is rated no lower than "A-" or "A3" by two rating agencies, all as more fully described in the JSA.

On the date the JSA was executed and delivered, MTA deposited \$20 into an account, which MTA invests, to be used in accordance with the JSA to reimburse MTA in the event it is obligated under the JSA to make semi-annual deficiency payments to the TIFIA Debt Service Reserve Account.

On June 12, 2017, the MTA entered into a Memorandum of Understanding with ESD and the New York State Division of the Budget (the "Division") whereby the Division agreed that in the event in any given year during the term of the JSA (i) the MTA is required to make a semi-annual deficiency payment to the TIFIA Debt Service Reserve Account, and (ii)



the Division has determined that the MTA has incurred an expense that would otherwise have been incurred by the State of New York (the "State Expense"), the Division will consider entering into a cost recovery agreement with the MTA pursuant to subdivision 4 of Section 2975 of the Public Authorities Law (the "PAL") for such year that will provide that in lieu of paying the full assessment pursuant to subdivisions 2 and 3 of Section 2975 of the PAL in any such year, any such assessment shall be reduced by the State Expense.

#### 12. POLLUTION REMEDIATION COST

In accordance with GASB Statement No. 49, Accounting and Financial Reporting for Pollution Remediation Obligations, an operating expense provision and corresponding liability measured at its current value using the expected cash flow method is recognized when an obligatory event occurs. Pollution remediation obligations are estimates and subject to changes resulting from price increase or reductions, technology, or changes in applicable laws or regulations. The MTA does not expect any recoveries of cost that would have a material effect on the recorded obligations.

The MTA recognized pollution remediation expenses of \$6 and \$4 for the periods ended September 30, 2019 and 2018, respectively. A summary of the activity in pollution remediation liability at September 30, 2019 and December 31, 2018 were as follows:

	2	019	018
	(Una	udited)	
Balance at beginning of year	\$	139	\$ 79
Current year expenses/changes in estimates		6	106
Current year payments		(5)	(46)
Balance at end of year		140	139
Less current portion		30	31
Long-term liability	\$	110	\$ 108

The MTA's pollution remediation liability primarily consists of future remediation activities associated with asbestos removal, lead abatement, ground water contamination, arsenic contamination and soil remediation.

# 13. CURRENT AND NON-CURRENT LIABILITIES

Changes in the activity of current and non-current liabilities for the periods ended September 30, 2019 and December 31, 2018 are presented below:

	]	Balance					Balance					Balance
	Dec	ember 31,				D	ecember 31,				S	eptember 30,
		2017	Addition	S	Reductions		2018	Add	itions	Reductions		2019
									(Unat	idited)		(Unaudited)
Current liabilities:												
Accounts payable	\$	607	\$	-	\$ (137)	\$	470	\$	56	\$ -	\$	526
Interest		204		6	-		210		420	-		630
Salaries, wages and payroll taxes		307		20	-		327		31	-		358
Vacation and sick pay benefits		988		32	-		1,020		22	-		1,042
Current portion — retirement												
and death benefits		14		2	-		16		21	-		37
Capital accrual		412	3	25	-		737		-	(344)	)	393
Unearned premiums		255		9	-		264		-	(49)	)	215
Other accrued expenses		606		87	-		693		10	-		703
Unearned revenues		594	2	10		_	804			(18)	_	786
Total current liabilities	\$	3,987	\$ 6	91	<u>\$ (137)</u>	\$	4,541	\$	560	\$ (411)	\$	4,690
Non-current liabilities:												
Contract retainage payable	\$	376	\$	30	\$ -		406	\$	20	\$ -	\$	426
Other long-term liabilities		347		29		_	376			(26)	) _	350
Total non-current liabilities	\$	723	\$	<u>59</u>	<u>\$ -</u>	\$	782	\$	20	\$ (26)	\$	776



#### 14. FUEL HEDGE

MTA partially hedges its fuel cost exposure using financial hedges. All MTA fuel hedges provide for up to 24 monthly settlements. The table below summarizes twenty-four (24) active ultra-low sulfur diesel ("ULSD") hedges in whole dollars:

							Macquarie	
	Goldman	Goldman	Goldman	Goldman	Goldman	Goldman	Energy	Goldman
Counterparty	Sachs	Sachs	Sachs	Sachs	Sachs	Sachs	LLC	Sachs
Trade Date	10/26/2017	11/29/2017	12/27/2017	1/31/2018	2/28/2018	3/28/2018	4/24/2018	5/29/2018
Effective Date	10/1/2018	11/1/2018	12/1/2018	1/1/2019	2/1/2019	3/1/2019	4/1/2019	5/1/2019
Termination Date	9/30/2019	10/31/2019	11/30/2019	12/31/2019	1/31/2020	2/29/2020	3/31/2020	4/30/2020
Price/Gal	\$1.7635	\$1.8520	\$1.9050	\$1.9570	\$1.8815	\$1.9805	\$2.0795	\$2.1590
Original Notional								
Quantity	2,612,515	2,870,561	2,870,574	2,870,565	2,786,237	2,853,500	2,799,258	2,841,090

	Goldman	BOA_	Goldman	Goldman		BOA_	BOA_	
Counterparty	Sachs	Merrill	Sachs	Sachs	Cargill	Merrill	Merrill	Cargill
Trade Date	6/26/2018	7/31/2018	8/29/2018	9/25/2018	10/30/2018	11/27/2018	1/3/2019	1/29/2019
Effective Date	6/1/2019	7/1/2019	8/1/2019	9/1/2019	10/1/2019	11/1/2019	12/1/2019	1/1/2020
Termination Date	5/31/2020	6/30/2020	7/31/2020	8/31/2020	9/30/2020	10/31/2020	11/30/2020	12/31/2020
Price/Gal	\$2.1755	\$2.1730	\$2.2145	\$2.2885	\$2.2455	\$1.9213	\$1.7885	\$1.9390
Original Notional								
Quantity	2,841,069	2,820,856	2,831,924	2,831,922	2,831,934	3,023,197	2,856,019	2,856,014

Counterparty	Cargill	Goldman Sachs	Goldman Sachs	Goldman Sachs	Goldman Sachs	Goldman Sachs	Macquarie Energy LLC	BOA_ Merrill
Trade Date	2/28/2019	3/28/2019	4/30/2019	5/28/2019	6/25/2019	7/30/2019	8/27/2019	9/30/2019
Effective Date	2/1/2020	3/1/2020	4/1/2020	5/1/2020	6/1/2020	7/1/2020	8/1/2020	9/1/2020
Termination Date	1/31/2021	2/28/2021	3/31/2021	4/30/2021	5/31/2021	6/30/2021	7/31/2021	8/31/2021
Price/Gal	\$2.0518	\$2.0045	\$2.0650	\$1.9675	\$1.9200	\$1.8875	\$1.7790	\$1.8075
Original Notional	. ===	2010 = 11	• • • • • • • • • • • • • • • • • • • •	2021 201	2051250	. =	2012 = 00	• • • • • • •
Quantity	2,793,123	2,849,714	2,874,889	2,851,286	2,851,258	2,788,533	2,842,790	2,844,946

The monthly settlements are based on the daily prices of the respective commodities whereby MTA will either receive a payment, or make a payment to the various counterparties depending on the average monthly price of the commodities in relation to the contract prices. At a contract's termination date, the MTA will take delivery of the fuel. As of September 30, 2019, the total outstanding notional value of the ULSD contracts was 52.4 million gallons with a negative fair market value of \$9.3 (unaudited). The valuation of each trade was based on discounting future net cash flows to a single current amount (the income approach) using observable commodity futures prices (Level 2 inputs).



# 15. CONDENSED COMPONENT UNIT INFORMATION

The following tables present condensed financial information for MTA's component units (in millions).

The following tables present condensed financial information  September 30, 2019 (Unaudited)		MTA	N - ]	Metro North ailroad	Lon Islar Railre	ıg nd	Ci	New York City Transit Authority	I	Triborough Bridge and Tunnel Authority	Eliminations	Consolidated Total	d
Current assets	\$	8,242	\$	208	\$	215	\$	608	\$	998	\$ (287)	\$ 9,98	84
Capital assets		11,618		5,282	7	7,401		44,461		6,562	-	75,32	24
Other Assets		12,484		5		-		1		467	(11,927)	1,03	30
Intercompany receivables		1,804		89		177		517		32	(2,619)		-
Deferred outflows of resources		1,601		320		431		1,871		506	(197)	4,53	32
Total assets and deferred outflows of resources	\$	35,749	\$	5,904	\$ 8	3,224	\$	47,458	\$	8,565	\$ (15,030)	\$ 90,87	70
Current liabilities	\$	2,945	\$	294	\$	225	\$	2,025	\$	904	\$ (113)	\$ 6,28	80
Non-current liabilities		40,188		2,070	3	3,709		21,774		10,390	(181)	77,95	50
Intercompany payables		1,603		151		114		902		534	(3,304)		-
Deferred inflows of resources		145	_	68		88	_	759	_	52		1,11	12
Total liabilities and deferred inflows of resources	\$	44,881	\$	2,583	\$ 4	1,136	\$	25,460	<u>\$</u>	11,880	\$ (3,598)	\$ 85,34	12
Net investment in capital assets	\$	(28,734)	\$	5,268	\$ 7	7,402	\$	44,284	\$	2,033			
Restricted		2,608		-		-		-		850	(429)	3,02	29
Unrestricted	_	16,994	_	(1,947)	(3	3,314)	_	(22,286)	_	(6,198)	(10,876)	(27,62	27)
Total net position	\$	(9,132)	\$	3,321	\$ 4	1,088	\$	21,998	\$	(3,315)	\$ (11,432)	\$ 5,52	28
For the period ended September 30, 2019 (Unaudited)													
Fare revenue	\$	174	\$	561	\$	574	\$	3,423	\$	-	\$ -	\$ 4,73	32
Vehicle toll revenue		-		-		-		-		1,548	-	1,54	48
Rents, freight and other revenue	_	57	_	42		30	_	352	_	17	(32)	46	66
Total operating revenue	_	231	_	603		604	_	3,775	_	1,565	(32)	6,74	46
Total labor expenses		821		696		836		4,979		189	-	7,52	21
Total non-labor expenses		332		299		287		1,553		181	(39)	2,61	13
Depreciation		68		173		300		1,470		124		2,13	35
Total operating expenses	_	1,221		1,168	1	1,423		8,002	_	494	(39)	12,20	<u> 59</u>
Operating (deficit) surplus	_	(990)	_	(565)		(819)		(4,227)		1,071	7	(5,52	23)
Subsidies and grants		980		90		-		237		7	(79)	1,23	35
Tax revenue		4,373		-		-		1,704		-	(1,240)	4,83	37
Interagency subsidy		595		271		420		205		-	(1,491)		-
Interest expense		(866)		-		-		(2)		(213)	(8)	(1,08	39)
Other	_	(458)	_	- 261		- 420	_	5	_	6 (200)	681		34
Total non-operating revenues (expenses)	_	4,624	_	361		420	_	2,149	_	(200)	(2,137)		
Gain (Loss) before appropriations		3,634		(204)		(399)		(2,078)		871	(2,130)	(30	)6)
Appropriations, grants and other receipts externally restricted for capital projects		(1,499)		331		942		1,151		(585)	1,541	1,88	01
Change in net position	_	2,135	_	127		543	_	(927)	_	286	(589)		_
Net position, beginning of period				3,194	2	343		22,925		(3,601)			
Net position, end of period	•	(11,267) ( <b>9,132</b> )	•	3,321		1,088	•	21,998	<u> </u>	(3,315)			_
	<b></b>	(9,132)	Φ	3,321	<b>Ф</b> -	1,000	Ф	21,990	Φ_	(3,313)	<del>\$ (11,432)</del>	\$ 5,52	
For the period ended September 30, 2019 (Unaudited)	ф	(002)	Φ	(200)	ф	(40.4)	Φ	(2.595)	Ф	1.226	Φ (5)	ф (2.0 <i>4</i>	40)
Net cash (used in) / provided by operating activities	\$	(893)	\$	(308)	\$	(484)	\$	(2,585)	\$	1,226	\$ (5)	\$ (3,04	ŧ9)
Net cash provided by / (used in) non-capital		4 5 50		400		cn-		2.074		(500)	(0.05.1)	4.00	0.4
financing activities		4,569		402		606		3,074		(593)	(3,254)	4,80	J4
Net cash (used in) / provided by capital and related		(1 665)		(2.1)		(21)		(000)		(0.40)	2.204	/=-	c0\
financing activities		(1,665)		(34)		(21)		(803)		(349)		(56	
Net cash (used in) / provided by investing activities		(1,979)		(50)		(100)		313		(285)		(1,14	
Cash at beginning of period		430	φ.	26	<u> </u>	9	ф.	66	<u>_</u>	10	φ		41
Cash at end of period	\$	462	\$	36	\$	10	\$	65	\$	9	<u> </u>	\$ 58	82_



			Metro- North		Long Island	New York City Transit	Triborough Bridge and Tunnel		Consolidated
December 31, 2018	M	ſΑ	Railroad	R	ailroad	Authority	Authority	Eliminations	Total
Current assets	\$	5,337	\$ 206	\$	244	\$ 633	\$ 461	\$ (116)	\$ 6,765
Capital assets	1	1,032	5,092		6,826	43,195	6,366	-	72,511
Other Assets	1	1,825	5		-	-	4	(10,772)	1,062
Intercompany receivables		696	95		153	1,627	730	(3,301)	-
Deferred outflows of resources		1,528	315		435	1,738	487	(143)	4,360
Total assets and deferred outflows of resources	\$ 3	0,418	\$ 5,713	\$	7,658	\$ 47,193	\$ 8,048	\$ (14,332)	\$ 84,698
Current liabilities	\$	4,374	\$ 316	\$	272	\$ 1,900	\$ 836	\$ (89)	\$ 7,609
Non-current liabilities	3-	4,509	2,070		3,705	21,609	10,249	(120)	72,022
Intercompany payables		2,655	65		48	-	512	(3,280)	
Deferred inflows of resources		147	68		88	759	52	·	1,114
Total liabilities and deferred inflows of resources	\$ 4	1,685	\$ 2,519	<u>\$</u>	4,113	\$ 24,268	\$ 11,649	\$ (3,489)	\$ 80,745
Net investment in capital assets	\$ (2	5,670)	\$ 5,079	\$	6,826	\$ 43,018	\$ 2,026	\$ (279)	\$ 30,000
Restricted		1,716	-		-	-	902	(728)	1,890
Unrestricted	1:	3,687	(1,885)	)	(3,281)	(20,093)	(6,529)	(9,836)	(27,937)
Total net position	\$ (1	1,267)	\$ 3,194	\$	3,545	\$ 22,925	\$ (3,601)	\$ (10,843)	\$ 3,953
For the period ended September 30, 2018 (Unaudited)									
Fare revenue	\$	170	\$ 548	\$	551	\$ 3,319	\$ -	\$ -	\$ 4,588
Vehicle toll revenue		_	_		_	_	1,471	-	1,471
Rents, freight and other revenue		59	36		30	322	16	(32)	
Total operating revenue		229	584		581	3,641	1,487	(32)	6,490
Total labor avpances		936	744		912	5,647	224	9	8,472
Total population expenses		361	290		290	1,488	184		
Total non-labor expenses								(43)	
Depreciation		76	172		290	1,366	106 514	(24)	2,010
Total operating expenses		1,373	1,206	_	1,492	8,501	514	(34)	13,052
Operating (deficit) surplus		1,144)	(622)	)	(911)	(4,860)	973	2	(6,562)
Subsidies and grants		1,056	95		_	648	6	(489)	1,316
Tax revenue		4,046	-		_	2,155	-	(1,679)	4,522
Interagency subsidy		543	236		406	191	-	(1,376)	-
Interest expense		(878)	-		-	(2)	(205)	(12)	(1,097)
Other	(	1,390)	-		1	3	2	1,525	141
Total non-operating revenues (expenses)		3,377	331		407	2,995	(197)	(2,031)	4,882
Gain (Loss) before appropriations	:	2,233	(291)	)	(504)	(1,865)	776	(2,029)	(1,680)
Appropriations, grants and other receipts externally									
restricted for capital projects	(	1,729)	290		825	512	(444)	1,750	1,204
Change in net position		504	(1)	) —	321	(1,353)	332	(279)	(476)
Net position, beginning of the period	(1)	0,023)	3,838		4,246	21,148	(4,042)		
Net position, end of period	\$ (	9,519)	\$ 3,837	\$	4,567	\$ 19,795	\$ (3,710)	\$ (10,222)	\$ 4,748
For the period ended September 30, 2018 (Unaudited)									
Net cash (used in) / provided by operating activities	\$	(949)	\$ (274)	) \$	(484)	\$ (2,473)	\$ 1,175	\$ (108)	\$ (3,113)
Net cash provided by / (used in) non-capital	•	/	· · · ·		17	( , , , , ,	, , , ,	, , , ,	(-,,
financing activities	:	3,843	362		531	3,584	(557)	(2,761)	5,002
Net cash (used in) / provided by capital and related									
financing activities		4,294)	(52)		23	(895)			(2,656)
Net cash provided by / (used in) investing activities		1,627	(35)		(70)	(220)		108	992
Cash at beginning of period		199	15		5	56		. <del> </del>	283
Cash at end of period	\$	426	\$ 16	\$	5	\$ 52	\$ 9	\$ -	\$ 508



#### 16. SUBSEQUENT EVENTS

On October 16, 2019, MTA issued \$600 MTA Transportation Revenue Bond Anticipation Notes, Series 2019E to finance existing approved transit and commuter projects related to the State funding commitment for the 2015-2019 Capital Program. The Series 2019E Notes were issued as fixed rate tax-exempt notes with a final maturity of September 1, 2020.

On October 29, 2019, MTA executed a 2,839,784 gallon ultra-low sulfur diesel fuel hedge with Goldman, Sachs & Co./J. Aron at an all-in price of \$1.8420 (whole dollars) per gallon. The hedge covers the period from October 2020 through September 2021.

On October 31, 2019, MTA effectuated a mandatory tender and remarketed \$84 of Transportation Revenue Variable Rate Refunding Bonds, Subseries 2012G-1.

On October 31, 2019, MTA effectuated a mandatory tender and remarketed: (i) \$85 of Dedicated Tax Fund Variable Rate Refunding Bonds, Subseries 2008A-2b, and (ii) \$45 of Dedicated Tax Fund Variable Rate Refunding Bonds, Subseries 2008B-3c.

On November 7, 2019, MTA issued \$242 MTA Transportation Revenue Refunding Green Bonds, Series 2019D, to (i) refund outstanding Transportation Revenue Bonds: \$111 of Series 2008B-4, \$100 of Series 2012D and \$51 of Series 2015D-2, and (ii) pay certain financing, legal, and miscellaneous expenses. The Subseries 2019D-1 (Mandatory Tender Bonds) mature on November 15, 2034. The Subseries 2019D-2 (Federally Taxable bonds) mature on November 15 in the years 2046 through 2048.

On November 15, 2019, MTA effectuated the early mandatory redemption of a portion of the MTA Hudson Rail Yards Trust Obligations, Series 2016A maturing on November 15, 2046 in the Principal Component of \$12. This is due to the payment of Fee Purchase Payments in connection with the acquisition of certain residential condominium units.

On November 26, 2019, MTA executed a 2,839,778 gallon ultra-low sulfur diesel fuel hedge with Goldman, Sachs & Co./J. Aron at an all-in price of \$1.8600 (whole dollars) per gallon. The hedge covers the period from November 2020 through October 2021.

On December 3, 2019, MTA effectuated a mandatory tender and remarketed \$46 MTA Triborough Bridge and Tunnel Authority General Revenue Variable Rate Bonds, Subseries 2003B-2, to bear interest in the Term Rate Mode at a variable rate equal to an adjusted SIFMA rate as described in the Remarketing Circular.

On December 3, 2019, MTA issued \$200 MTA Triborough Bridge and Tunnel Authority General Revenue Bonds, Series 2019C, to (i) finance bridge and tunnel projects in the MTA Bridges and Tunnels approved Capital Program and (ii) pay certain financing, legal, and miscellaneous expenses. The Series 2019C bonds, which are subject to redemption prior to maturity, mature on November 15 in the years 2040 through 2048.

On December 10, 2019, MTA issued \$200 MTA Transportation Revenue Bond Anticipation Notes, Series 2019F ("the Series 2019F Notes") maturing on November 15, 2022. The Series 2019F Notes were issued to (i) finance existing approved transit and commuter projects, (ii) pay capitalized interest on the Series 2019F Notes accruing through maturity, and (iii) pay certain financing, legal, and miscellaneous expenses.

On December 30, 2019, MTA executed a 2,839,796 gallon ultra-low sulfur diesel fuel hedge with Merrill Lynch at an all-in price of \$1.9040 (whole dollars) per gallon. The hedge covers the period from December 2020 through November 2021.

On January 8, 2020, MTA issued \$1.5 billion MTA Transportation Revenue Bond Anticipation Notes, Series 2020A ("the Series 2020A Notes"), with \$800 Subseries 2020A-1 maturing February 1, 2023 and \$700 Subseries 2020A-2S maturing February 1, 2022. The Series 2020A Notes were issued to (i) finance existing approved transit and commuter projects, (ii) pay capitalized interest on the Series 2020A Notes accruing through maturity, and (iii) pay certain financing, legal, and miscellaneous expenses.

On January 16, 2020, MTA issued \$925 MTA Transportation Revenue Green Bonds, Series 2020A ("the Series 2020A Bonds"), with \$687 Subseries 2020A-1, maturing each November 15 from 2040 through 2054, and \$238 Subseries 2020A-2 maturing on May 15, 2024. The Series 2020A Bonds were issued to (i) retire the outstanding MTA Transportation Revenue Bond Anticipation Notes, Series 2019A, (ii) refund the MTA Transportation Revenue Bonds, Subseries 2016C-2b, and (iii) pay certain financing, legal, and miscellaneous expenses.

On January 24, 2020, MTA effectuated a mandatory tender and remarketed \$102 MTA Triborough Bridge and Tunnel Authority General Revenue Variable Rate Bonds, Series 2005A, to bear interest in the Weekly Mode as described in the Remarketing Circular.



On January 30, 2020, MTA executed a 2,839,808 gallon ultra-low sulfur diesel fuel hedge with Merrill Lynch at an all-in price of \$1.7100 (whole dollars) per gallon. The hedge covers the period from January 2021 through December 2021.

On February 3, 2020, MTA effectuated a mandatory tender and remarketed \$75 Transportation Revenue Variable Rate Refunding Bonds, Subseries 2012G-3 (Libor Floating Rate Tender Notes), which will bear interest in the Term Rate Mode at a variable rate equal to the Adjusted SIFMA Rate, as described in the Remarketing circular.

On February 25, 2020, MTA executed a 2,841,331 gallon ultra-low sulfur diesel fuel hedge with Goldman, Sachs & Co./J. Aron at an all-in price of \$1.6750 (whole dollars) per gallon. The hedge covers the period from February 2021 through January 2022.

As a result of the COVID-19 outbreak in March 2020, the MTA and MTA Bridges and Tunnels are experiencing a significant reduction in ridership and vehicles crossings that is directly affecting ridership and toll revenue. The MTA is currently assessing the impact of this event.

On March 24, 2020, S&P Global Ratings lowered its issuer rating to 'A-' from 'A' on the MTA's Transportation Revenue Bonds ("TRBs") and assigned its 'A-' long-term rating to the MTA's proposed \$800 million series 2020C transportation revenue bonds. The outlook is negative.

On March 24, 2020, the MTA announced the implementation of the "NY Essential Service Plan ("Service Plan")." The Service Plan will ensure healthcare workers, first responders and essential personnel get to and from work by mass transit and MTA New York City Transit, MTA Long Island Rail Road and MTA Metro-North Railroad will implement temporary reduced service schedules. The reduced schedules will ensure service to and from work for the workers on the frontlines of this crisis, while adapting to never-before-seen ridership lows.

On the subways, beginning March 25, 2020, service reductions will be implemented. The service changes will preserve MTA New York City Transit's a.m. and p.m. peak service to get first responders and essential personnel to their destinations. Some lines will not run Monday through Friday, including the B, W and Z lines, which will be covered by other local service. Some express services and branches on some lines will operate only local service. MTA New York City Transit will continue to undertake a line-by-line, hour-by-hour analysis of ridership, retaining flexibility to increase service as necessary. The Service Plan for buses will start on March 26, 2020.

On March 25, 2020, Congressional and Administration representatives announced a bi-partisan agreement of federal emergency legislation, the "Coronavirus Aid, Relief and Economic Security Act" or "CARES Act", to fund urgent national needs to address the COVID-19 pandemic which is currently awaiting final Congressional passage and then the President's signature. The legislation, if enacted as described by Senate leaders, would provide \$4 billion to MTA.

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Schedule of Changes in the MTA's Net Pension Liability and Related Ratios for Single Employer Pension Plans

# (\$ in thousands)

Benefit payments and withdrawals         (159,717)         (158,593)         (157,071)         (156,674)         (209,122)         (187,823)         (179,928)         (175,477)           Net change in total pension liability         (54,476)         (35,947)         (39,908)         (43,125)         139,729         144,758         60,525         118,935           Total pension liability—beginning         1,526,304         1,562,531         1,602,159         1,645,284         3,536,747         3,391,989         3,331,464         3,212,529           Plan fiduciary net position:         2         1,526,304         1,562,251         1,600,000         407,513         202,684         220,697         214,881         226,374           Nonemployer contributions         76,523         81,100         100,000         407,513         202,684         220,697         214,881         226,374           Nonemployer contributions         76,523         81,100         100,000         407,513         202,684         220,697         214,881         226,374           Member contributions         76,523         81,100         100,000         407,513         202,684         220,697         214,881         226,374           Net investment income         112,614         582,399         527		Additional Plan					MaBSTOA Plan										
Service cost         \$ 1,874         \$ 2,752         \$ 3,441         \$ 3,813         \$ 84,394         \$ 82,075         \$ 77,045         \$ 72,091           Interest         101,477         104,093         106,987         110,036         246,284         236,722         232,405         223,887           Effect of economic/ demographic (gains) or losses         1,890         15,801         6,735         110,036         246,284         236,722         232,405         223,887           Effect of economic/ demographic (gains) or losses         1,890         15,801         6,735         16,762         11,826         13,784         (68,997)         17,902           Differences between expected and etual experience         1,502         1,517,717         (158,93)         (157,071)         (156,974)         209,122         187,823         179,928)         (175,476)           Net change in total pension liability         (54,476)         (35,947)         (39,908)         (43,125)         13,792         144,758         60,525         118,935           Total pension liability—edining         1,562,304         1,562,251         1,602,159         1,602,159         3,676,476         3,319,489         3,31,464         220,697         214,881         222,6374           Total pension liability—edinig (a)	Plan Measurement Date (December 31):		2017		2016		2015		2014		2017		2016		2015		2014
Interest   101,477   104,093   106,987   110,036   246,284   236,722   232,405   223,887   Effect of economic / demographic (gains) or losses   1,890   15,801   6,735   -   11,826   13,784   (68,997)   -     Effect of assumption changes or inputs   50,000   15,801   15,8	Total pension liability:																
Effect of economic / demographic (gains) or losses         1,890         15,801         6,735         -         11,826         13,784         66,897         -	Service cost	\$	1,874	\$	2,752	\$	3,441	\$	3,813	\$	84,394	\$	82,075	\$	77,045	\$	72,091
Effect of assumption changes or inputs   Differences between expected and actual experience   C15,971   C158,593   C157,0711   C156,974   C15	Interest		101,477		104,093		106,987		110,036		246,284		236,722		232,405		223,887
Differences between expected and actual experience   Comparison of the foliation of the f	Effect of economic / demographic (gains) or losses		1,890		15,801		6,735		-		11,826		13,784		(68,997)		-
experience         -	1 0 1		-								6,347						
Net change in total pension liability         (54,476)         (35,947)         (39,908)         (43,125)         139,729         144,758         60,525         118,935           Total pension liability—beginning         1,526,304         1,562,251         1,602,159         1,645,284         3,536,747         3,391,989         3,331,464         3,212,529           Total pension liability—ending (a)         1,471,828         1,526,304         1,562,251         1,602,159         3,676,476         3,536,747         3,391,989         3,331,464         3,212,529           Plan fiduciary net position:         Employer contributions         76,523         81,100         100,000         407,513         202,684         220,697         214,881         226,374           Nonemployer contributions         76,523         81,100         100,000         407,513         202,684         220,697         214,881         226,374           Member contributions         760         884         1,108         1,304         19,713         18,472         16,321         15,460           Net investment income         112,614         58,239         527         21,231         350,186         212,260         (24,163)         105,084           Benefit payments and withdrawals         (159,717)         (158,593) <td>*</td> <td></td> <td>_</td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td>_</td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td>(1,596)</td>	*		_		-		-		_		-		-		-		(1,596)
Total pension liability—beginning         1,526,304         1,562,251         1,602,159         1,645,284         3,536,747         3,391,989         3,331,464         3,212,529           Total pension liability—ending (a)         1,471,828         1,526,304         1,562,251         1,602,159         3,676,476         3,391,989         3,331,464         3,212,529           Plan fiduciary net position:           Employer contributions         76,523         81,100         100,000         407,513         202,684         220,697         214,881         226,374           Nonemployer contributions         145,000         70,000         884         1,108         1,304         19,713         18,472         16,321         15,460           Net investment income         112,614         58,239         527         21,231         350,186         212,260         (24,163)         105,084           Benefit payments and withdrawals         (159,717)         (158,593)         (157,071)         (156,974)         (209,122)         (187,823)         (179,928)         (175,447)           Administrative expenses         (1,070)         (611)         (1,218)         (975)         (208)         (186)         (88)         (74)           Net change in plan fiduciary net position—beginning	Benefit payments and withdrawals		(159,717)		(158,593)		(157,071)		(156,974)		(209,122)		(187,823)		(179,928)		(175,447)
Total pension liability—ending (a)         1,471,828         1,526,304         1,562,251         1,602,159         3,676,476         3,536,747         3,391,899         3,331,464           Plan fiduciary net position:           Employer contributions         76,523         81,100         100,000         407,513         202,684         220,697         214,881         226,374           Nonemployer contributions         145,000         70,000         - <td< td=""><td>Net change in total pension liability</td><td></td><td>(54,476)</td><td></td><td>(35,947)</td><td></td><td>(39,908)</td><td></td><td>(43,125)</td><td></td><td>139,729</td><td></td><td>144,758</td><td></td><td>60,525</td><td></td><td>118,935</td></td<>	Net change in total pension liability		(54,476)		(35,947)		(39,908)		(43,125)		139,729		144,758		60,525		118,935
Plan fiduciary net position:	Total pension liability—beginning	1	,526,304		1,562,251		1,602,159		1,645,284		3,536,747		3,391,989		3,331,464		3,212,529
Employer contributions         76,523         81,100         100,000         407,513         202,684         220,697         214,881         226,374           Nonemployer contributions         145,000         70,000         -<	Total pension liability—ending (a)	1	,471,828		1,526,304		1,562,251		1,602,159		3,676,476		3,536,747		3,391,989		3,331,464
Nonemployer contributions         145,000         70,000         -	Plan fiduciary net position:																
Member contributions         760         884         1,108         1,304         19,713         18,472         16,321         15,460           Net investment income         112,614         58,239         527         21,231         350,186         212,260         (24,163)         105,084           Benefit payments and withdrawals         (159,717)         (158,593)         (157,071)         (156,974)         (209,122)         (187,823)         (179,928)         (175,447)           Administrative expenses         (1,070)         (611)         (1,218)         (975)         (208)         (186)         (88)         (74)           Net change in plan fiduciary net position         174,110         51,019         (56,654)         272,099         363,253         263,420         27,023         171,397           Plan fiduciary net position—beginning         777,217         726,198         782,852         510,753         2,555,736         2,292,316         2,265,293         2,933,896           Plan fiduciary net position—ending (b)         951,327         777,217         726,198         836,053         819,307         757,487         981,011         \$1,099,673         \$1,066,171           Plan fiduciary net position as a percentage of the total pension liability         \$20,500         \$29,312	Employer contributions		76,523		81,100		100,000		407,513		202,684		220,697		214,881		226,374
Net investment income         112,614         58,239         527         21,231         350,186         212,260         (24,163)         105,084           Benefit payments and withdrawals         (159,717)         (158,593)         (157,071)         (156,974)         (209,122)         (187,823)         (179,928)         (175,447)           Administrative expenses         (1,070)         (611)         (1,218)         (975)         (208)         (186)         (88)         (74)           Net change in plan fiduciary net position—beginning         174,110         51,019         (56,654)         272,099         363,253         263,420         27,023         171,397           Plan fiduciary net position—beginning         777,217         726,198         782,852         510,753         2,555,736         2,292,316         2,265,293         2,093,896           Plan fiduciary net position—ending (b)         951,327         777,217         726,198         782,852         510,753         2,518,989         2,555,736         2,292,316         2,265,293           Employer's net pension liability—ending (a)-(b)         \$520,501         \$749,087         \$836,053         \$819,307         757,487         \$981,011         \$1,099,673         \$1,066,171           Plan fiduciary net position as a percentage of the total pension li	Nonemployer contributions		145,000		70,000		-		-		-		-		-		-
Benefit payments and withdrawals         (159,717)         (158,593)         (157,071)         (156,974)         (209,122)         (187,823)         (179,928)         (175,447)           Administrative expenses         (1,070)         (611)         (1,218)         (975)         (208)         (186)         (88)         (74)           Net change in plan fiduciary net position         174,110         51,019         (56,654)         272,099         363,253         263,420         27,023         171,397           Plan fiduciary net position—beginning         777,217         726,198         782,852         510,753         2,555,736         2,292,316         2,265,293         2,093,896           Plan fiduciary net position—ending (b)         951,327         777,217         726,198         782,852         2,918,989         2,555,736         2,292,316         2,265,293           Employer's net pension liability—ending (a)-(b)         \$520,501         \$749,087         \$836,053         \$819,307         \$757,487         \$981,011         \$1,099,673         \$1,066,171           Plan fiduciary net position as a percentage of the total pension liability         64.64%         50.92%         46.48%         48.86%         79.40%         72.26%         67.58%         68.00%           Covered payroll         \$20,500	Member contributions		760		884		1,108		1,304		19,713		18,472		16,321		15,460
Administrative expenses (1,070) (611) (1,218) (975) (208) (186) (88) (74) (74) (74) (74) (74) (74) (74) (74	Net investment income		112,614		58,239		527		21,231		350,186		212,260		(24,163)		105,084
Net change in plan fiduciary net position         174,110         51,019         (56,654)         272,099         363,253         263,420         27,023         171,397           Plan fiduciary net position—beginning         777,217         726,198         782,852         510,753         2,555,736         2,292,316         2,265,293         2,093,896           Plan fiduciary net position—ending (b)         951,327         777,217         726,198         782,852         2,918,989         2,555,736         2,292,316         2,265,293           Employer's net pension liability—ending (a)-(b)         \$ 520,501         749,087         \$ 836,053         \$ 819,307         \$ 757,487         \$ 981,011         \$ 1,099,673         \$ 1,066,171           Plan fiduciary net position as a percentage of the total pension liability         64.64%         50.92%         46.48%         48.86%         79.40%         72.26%         67.58%         68.00%           Covered payroll         \$ 20,500         \$ 29,312         \$ 39,697         43,267         749,666         716,527         686,674         653,287           Employer's net pension liability as a percentage	Benefit payments and withdrawals		(159,717)		(158,593)		(157,071)		(156,974)		(209,122)		(187,823)		(179,928)		(175,447)
Plan fiduciary net position—beginning         777,217         726,198         782,852         510,753         2,555,736         2,292,316         2,265,293         2,093,896           Plan fiduciary net position—ending (b)         951,327         777,217         726,198         782,852         2,918,989         2,555,736         2,292,316         2,265,293           Employer's net pension liability—ending (a)-(b)         \$ 520,501         \$ 749,087         \$ 836,053         \$ 819,307         \$ 757,487         \$ 981,011         \$ 1,099,673         \$ 1,066,171           Plan fiduciary net position as a percentage of the total pension liability         64.64%         50.92%         46.48%         48.86%         79.40%         72.26%         67.58%         68.00%           Covered payroll         \$ 20,500         \$ 29,312         \$ 39,697         \$ 43,267         \$ 749,666         716,527         686,674         653,287           Employer's net pension liability as a percentage         \$ 20,500         \$ 29,312         \$ 39,697         \$ 43,267         \$ 749,666         716,527         686,674         653,287	Administrative expenses		(1,070)		(611)		(1,218)		(975)	_	(208)		(186)		(88)		(74)
Plan fiduciary net position—ending (b)         951,327         777,217         726,198         782,852         2,918,989         2,555,736         2,292,316         2,265,293           Employer's net pension liability—ending (a)-(b)         \$ 520,501         \$ 749,087         \$ 836,053         \$ 819,307         \$ 757,487         \$ 981,011         \$ 1,099,673         \$ 1,066,171           Plan fiduciary net position as a percentage of the total pension liability         64.64%         50.92%         46.48%         48.86%         79.40%         72.26%         67.58%         68.00%           Covered payroll         \$ 20,500         \$ 29,312         \$ 39,697         \$ 43,267         749,666         716,527         686,674         653,287           Employer's net pension liability as a percentage         \$ 20,500         \$ 29,312         \$ 39,697         \$ 43,267         749,666         716,527         686,674         653,287	Net change in plan fiduciary net position		174,110		51,019		(56,654)		272,099		363,253		263,420		27,023		171,397
Employer's net pension liability—ending (a)-(b)         \$ 520,501         \$ 749,087         \$ 836,053         \$ 819,307         \$ 757,487         \$ 981,011         \$ 1,099,673         \$ 1,066,171           Plan fiduciary net position as a percentage of the total pension liability         64.64%         50.92%         46.48%         48.86%         79.40%         72.26%         67.58%         68.00%           Covered payroll         \$ 20,500         \$ 29,312         \$ 39,697         \$ 43,267         \$ 749,666         \$ 716,527         \$ 686,674         \$ 653,287           Employer's net pension liability as a percentage	Plan fiduciary net position—beginning		777,217		726,198		782,852		510,753		2,555,736		2,292,316		2,265,293		2,093,896
Plan fiduciary net position as a percentage of the total pension liability         64.64%         50.92%         46.48%         48.86%         79.40%         72.26%         67.58%         68.00%           Covered payroll         \$ 20,500         \$ 29,312         \$ 39,697         \$ 43,267         \$ 749,666         \$ 716,527         \$ 686,674         \$ 653,287           Employer's net pension liability as a percentage	Plan fiduciary net position—ending (b)		951,327		777,217		726,198		782,852	_	2,918,989		2,555,736		2,292,316		2,265,293
the total pension liability 64.64% 50.92% 46.48% 48.86% 79.40% 72.26% 67.58% 680.00% Covered payroll \$ 20,500 \$ 29,312 \$ 39,697 \$ 43,267 \$ 749,666 \$ 716,527 \$ 686,674 \$ 653,287 Employer's net pension liability as a percentage	Employer's net pension liability—ending (a)-(b)	\$	520,501	\$	749,087	\$	836,053	\$	819,307	\$	757,487	\$	981,011	\$	1,099,673	\$	1,066,171
Employer's net pension liability as a percentage			64.64%	_	50.92%	_	46.48%	_	48.86%	: =	79.40%	_	72.26%	_	67.58%	_	68.00%
	Covered payroll	\$	20,500	\$	29,312	\$	39,697	\$	43,267	\$	749,666	\$	716,527	\$	686,674	\$	653,287
			2539.03%		2555.56%		2106.09%	_	1893.61%		101.04%		136.91%		160.14%		163.20%

Note: Information was not readily available for periods prior to 2014. This schedule is intended to show information for ten years. Additional years will be displayed as they become available.



Schedule of Changes in the MTA's Net Pension Liability and Related Ratios for Single Employer Pension Plans

(continued)

(\$ in thousands)									
		MNR Cash l	Balance Plan			MTA Defined	l Benefit Plan		
Plan Measurement Date (December 31):	2017	2016	2015	2014	2017	2016	2015	2014	
Total pension liability:									
Service cost	\$ -	\$ -	\$ -	\$ -	\$ 148,051	\$ 138,215	\$ 124,354	\$ 121,079	
Interest	21	24	29	32	335,679	308,009	288,820	274,411	
Effect of economic / demographic (gains) or losses	12	(15)	(10)	-	(27,059)	86,809	121,556	2,322	
Effect of assumption changes or inputs	-	-	18	-	10,731	-	(76,180)	-	
Effect of plan changes	-	-	-	-	76,511	73,521	6,230	-	
Benefit payments and withdrawals	(71)	(77)	(113)	(88)	(232,976)	(209,623)	(199,572)	(191,057)	
Net change in total pension liability	(38)	(68)	(76)	(56)	310,937	396,931	265,208	206,755	
Total pension liability—beginning	566	634	710	766	4,761,877	4,364,946	4,099,738	3,892,983	
Total pension liability—ending (a)	528	566	634	710	5,072,814	4,761,877	4,364,946	4,099,738	
Plan fiduciary net position:									
Employer contributions	-	23	18	-	321,861	280,768	221,694	331,259	
Member contributions	-	-	-	-	31,027	29,392	34,519	26,006	
Net investment income	20	16	6	41	516,153	247,708	(45,122)	102,245	
Benefit payments and withdrawals	(71)	(77)	(113)	(88)	(232,976)	(209,623)	(199,572)	(191,057)	
Administrative expenses	-	-	3	(3)	(4,502)	(3,051)	(1,962)	(9,600)	
Net change in plan fiduciary net position	(51)	(38)	(86)	(50)	631,563	345,194	9,557	258,853	
Plan fiduciary net position—beginning	574	612	698	748	3,419,971	3,074,777	3,065,220	2,806,367	
Plan fiduciary net position—ending (b)	523	574	612	698	4,051,534	3,419,971	3,074,777	3,065,220	
Employer's net pension liability—ending (a)-(b)	\$ 5	\$ (8)	\$ 22	\$ 12	\$ 1,021,280	\$ 1,341,906	\$ 1,290,169	\$ 1,034,518	
Plan fiduciary net position as a percentage of the total pension liability	99.05%	101.41%	96.53%	98.36%	79.87%	71.82%	70.44%	<u>74.77%</u>	
Covered payroll	\$ 471	\$ 846	\$ 1,474	\$ 2,274	\$ 1,857,026	\$ 1,784,369	\$ 1,773,274	\$ 1,679,558	
Employer's net pension liability as a percentage of covered payroll	1.06%	-0.95%	1.49%	0.53%	55.00%	75.20%	72.76%	61.59%	

Note: Information was not readily available for periods prior to 2014. This schedule is intended to show information for ten years. Additional years will be displayed as they become available.



Schedule of the MTA's Proportionate Share of the Net Pension Liabilities of Cost-Sharing Multiple-Employer Pension Plans

(\$	in	thousands)
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(+ == ==========		NYCERS Plan							
Plan Measurement Date:		ne 30, 2018	Ju	ine 30, 2017		une 30, 2016	Jı	ine 30, 2015	
MTA's proportion of the net pension liability		23.682%		24.096%		23.493%		23.585%	
MTA's proportionate share of the net pension liability	\$	4,176,941	\$	5,003,811	\$	5,708,052	\$	4,773,787	
MTA's actual covered payroll	\$	3,216,837	\$	3,154,673	\$	3,064,007	\$	2,989,480	
MTA's proportionate share of the net pension liability as a percentage of the MTA's covered payroll Plan fiduciary net position as a percentage of		129.846%		158.616%		186.294%		159.686%	
the total pension liability		78.826%		74.805%		69.568%		73.125%	
				NYSLE	RS Pl	an			
Plan Measurement Date:	Ma	arch 31, 2018	_Ma	arch 31, 2017	M	arch 31, 2016	_Ma	arch 31, 2015	
MTA's proportion of the net pension liability		0.327%		0.311%		0.303%		0.289%	
MTA's proportionate share of the net pension liability	\$	10,553	\$	29,239	\$	48,557	\$	9,768	
MTA's actual covered payroll	\$	105,269	\$	96,583	\$	87,670	\$	87,315	
MTA's proportionate share of the net pension liability as a percentage of the MTA's covered payroll Plan fiduciary net position as a percentage of the total pension liability		10.025% 98.240%		30.273% 94.703%		55.386% 90.685%		11.187% 97.947%	
the total pension macinity		20.21070		211.70570		>0.00570		71.71770	

Note: Information was not readily available for periods prior to 2015. This schedule is intended to show information for ten years. Additional years will be displayed as they become available. The data provided in this schedule is based on the measurement date used by NYCERS and NYSLERS for the net pension liability.



Schedule of the MTA's Contributions for All Pension Plans for the Year Ended December 31,

(\$ in thousands)										
	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
Additional Plan* Actuarially Determined Contribution Actual Employer Contribution Contribution Deficiency (Excess) Covered Payroll	\$ 59,500 \$ (304)	\$ 76,523 221,523 \$ (145,000) \$ 20,500	\$ 83,183 151,100 \$ (67,917) \$ 29,312	\$ 82,382 100,000 \$ (17,618) \$ 39,697	\$ 112,513 407,513 \$(295,000) \$ 43,267	\$ - - \$ - \$ -	\$ - - - - - - - - - - - - -	\$ - <u>-</u> <u>\$ -</u> \$ -	\$ - = <u>\$ -</u> \$ -	\$ - - - - - - - - - - - - - - -
Contributions as a % of Covered Payroll	466.49%	1080.62%	515.49%	251.91%	941.87%	N/A	N/A	N/A	N/A	N/A
MaBSTOA Plan Actuarially Determined Contribution Actual Employer Contribution Contribution Deficiency (Excess) Covered Payroll	205,434 \$ (2,925) \$ 776,200	\$ 202,924 202,684 \$ 240 \$ 749,666	\$ 220,697 220,697 \$ - \$ 716,527	\$ 214,881 214,881 \$ - \$ 686,674	\$ 226,374 226,374 \$ - \$ 653,287	\$ 234,474 234,474 \$ - \$ 582,081	\$ 228,918 228,918 \$ - \$ 575,989	\$ 186,454 186,454 \$ - \$ 579,696	\$ 200,633 200,633 \$ - \$ 591,073	\$ 204,274 204,274 \$ - \$ 569,383
Contributions as a % of Covered Payroll	26.47%	27.04%	30.80%	31.29%	34.65%	40.28%	39.74%	32.16%	33.94%	35.88%
Metro-North Cash Balance Plan* Actuarially Determined Contribution Actual Employer Contribution Contribution Deficiency (Excess) Covered Payroll	<u> </u>	\$ - \$ - \$ 471	\$ 23 23 \$ - \$ 846	\$ - 14 \$ (14) \$ 1,474	\$ 5 \$ 5 \$ 2,274	\$ - \$ - \$ -	\$ - - \$ - \$ -	\$ - <u>\$ -</u> <u>\$ -</u>	\$ - - \$ - \$ -	\$ - - - - - - - - - - - - - - - - -
Contributions as a % of Covered Payroll	2.03%	0.00%	2.68%	0.96%	0.00%	N/A	N/A	N/A	N/A	N/A
MTA Defined Benefit Plan*										
Actuarially Determined Contribution Actual Employer Contribution Contribution Deficiency (Excess)	339,800	\$ 316,916 321,861 \$ (4,945)	\$ 290,415 280,767 \$ 9,648	\$ 273,700 221,694 \$ 52,006	\$ 271,523 331,259 \$ (59,736)	\$ - - \$ -	\$ - - - \$ -	\$ - - \$ -	\$ - - <del>-</del> \$ -	\$ - - <del>-</del> - <del>-</del>
Covered Payroll		\$ 1,857,026	\$ 1,784,369	\$ 1,773,274	\$ 1,679,558	\$ -	\$ -	\$ -	\$ -	\$ -
Contributions as a % of Covered Payroll	16.83%	17.33%	15.73%	12.50%	19.72%	N/A	N/A	N/A	N/A	N/A

<sup>\*</sup> For the MTA Defined Benefit Plan, Additional Plan and Metro-North Cash Balance Plan, information was not readily available for periods



Schedule of the MTA's Contributions for All Pension Plans for the Year Ended December 31,

(continued)

(\$ in thousands)										
	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
NYCERS										
Actuarially Determined Contribution	\$ 807,097	\$ 800,863	\$ 797,845	\$ 736,212	\$ 741,223	\$ 736,361	\$ 731,983	\$ 657,771	\$ 574,555	\$ 548,721
Actual Employer Contribution	807,097	800,863	797,845	736,212	741,223	736,361	731,983	657,771	574,555	548,721
Contribution Deficiency (Excess)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Covered Payroll	\$ 3,974,494	\$3,768,885	\$3,523,993	\$3,494,907	\$3,617,087	\$ 2,943,195	\$ 2,925,834	\$ 2,900,630	\$ 2,886,789	\$ 2,800,882
Contributions as a % of										
Covered Payroll	20.31%	21.25%	22.64%	21.07%	20.49%	25.02%	25.02%	22.68%	19.90%	19.59%
NYSLERS **										
Actuarially Determined Contribution	\$ 14,501	\$ 13,969	\$ 12,980	\$ 15,792	\$ 13,816	\$ -	\$ -	\$ -	\$ -	\$ -
Actual Employer Contribution	14,501	13,969	12,980	15,792	13,816					
Contribution Deficiency (Excess)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Covered Payroll	\$ 109,210	\$ 103,787	\$ 94,801	\$ 86,322	\$ 84,041	\$ -	\$ -	\$ -	\$ -	\$ -
Contributions as a % of										
Covered Payroll	13.28%	13.46%	13.69%	18.29%	16.44%	N/A	N/A	N/A	N/A	N/A

<sup>\*\*</sup> For the NYSLERS plan, information was not readily available for periods prior to 2014. This schedule is intended to show information for ten years. Additional years will be displayed as they become available.



# Notes to Schedule of the MTA's Contributions for All Pension Plans

	Additional Plan									
Valuation Dates:	January 1, 2017	January 1, 2016	January 1, 2015	January 1, 2014						
Measurement Date:	December 31, 2017	December 31, 2016	December 31, 2015	December 31, 2014						
Actuarial cost method:	Entry Age Normal Cost									
Amortization method:	Period specified in current valuation report (closed 17 year period beginning January 1, 2016) with level dollar payments.	Period specified in current valuation report (closed 17 year period beginning January 1, 2016) with level dollar payments.	Period specified in current valuation report (closed 18 year period beginning January 1, 2015) with level dollar payments.	Period specified in current valuation report (closed 19 year period beginning January 1, 2014) with level dollar payments.						
Asset Valuation Method:	Actuarial value equals market value less unrecognized gains/ losses over a 5-year period. Gains/ losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/ losses over a 5-year period. Gains/ losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/ losses over a 5-year period. Gains/ losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/ losses over a 5-year period. Gains/ losses are based on market value of assets.						
Salary increases:	3.00%	3.00%	3.00%	3.00%						
Actuarial assumptions:										
Discount Rate:	7.00%	7.00%	7.00%	7.00%						
Investment rate of return :	7.00%, net of investment expenses.									
Mortality:	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA.	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA.	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA.	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA. As generational tables, they reflect mortality improvements both before and after the measurement date. Mortality assumption is based on a 2012 experience study for all MTA plans.						
Pre-retirement:	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.						
Post-retirement Healthy Lives:	95% of the rates from the RP- 2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP- 2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP- 2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.						
Post-retirement Disabled Lives:	N/A	N/A	N/A	N/A						
Inflation/Railroad Retirement Wage Base:	2.50%; 3.50%	2.50%; 3.50%	2.50%; 3.50%	2.50%; 3.50%						
Cost-of-Living Adjustments:	N/A	N/A	N/A	N/A						



#### Notes to Schedule of the MTA's Contributions for All Pension Plans

V-14' D. (	I 1 2017		OA Plan	I 1 2014
Valuation Dates:	January 1, 2017	January 1, 2016	January 1, 2015	January 1, 2014
Measurement Date:	December 31, 2017	December 31, 2016	December 31, 2015	December 31, 2014
Actuarial cost method:	Frozen Initial Liability (FIL)			
Amortization method:	For FIL bases, period specified in current valuation 30-year level dollar. Future gains/losses are amortized through the calculation of the normal cost in accordance with the FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population.	For FIL bases, period specified in current valuation 30-year level dollar. Future gains/losses are amortized through the calculation of the normal cost in accordance with the FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population.	For FIL bases, period specified in current valuation 30-year level dollar. Future gains/losses are amortized through the calculation of the normal cost in accordance with the FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population.	For FIL bases, period specified in current valuation 30-year leve dollar. Future gains/losses are amortized through the calculation of the normal cost in accordance with the FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population
Asset Valuation Method:	Actuarial value equals market value less unrecognized gains/ losses over a 5-year period. Gains/ losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/ losses over a 5-year period. Gains/ losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/ losses over a 5-year period. Gains/ losses are based on market value of assets.	Actuarial value equals market value less unrecognized Market value restart as of 1/1/96, then gains/losses over a 5-year period Gains/losses are five-year movin average of market values based of market value of assets.
Salary increases:	Varies by years of employment and employment type.	Varies by years of employment and employment type.	Varies by years of employment and employment type.	In general, merit and promotion increases plus assumed general wage increases of 3.5% to 15.0% for operating employees and 4.0% to 7.0% for nonoperating employees per year, depending o years of service.
Actuarial assumptions: Discount Rate:	7.00%	7.00%	7.00%	7.00%
Investment rate of return :	7.00%, net of investment expenses.	7.00%, net of investment expenses.	7.00%, net of investment expenses.	7.00%, net of investment expens
Mortality:	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA.	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA.	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA.	Pre-retirement and post-retirement healthy annuitant rates are projected on a generational basis using Scale AA. As generational tables, they reflect mortality improvements both before and after the measurement date. Mortality assumption is based on a 2012 experience study for all MTA plans.
Pre-retirement:	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females wit blue collar adjustments.
Post-retirement Healthy Lives:	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-20 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.
Post-retirement Disabled Lives:	RP-2014 Disabled Annuitant mortality table for males and females.	75% of the rates from the RP-2000 Healthy Annuitant mortality table for males and females.	75% of the rates from the RP-2000 Healthy Annuitant mortality table for males and females.	75% of the rates from the RP-20 Healthy Annuitant mortality tabl for males and females.
Inflation/Railroad Retirement Wage Base:	2.50%	2.50%	2.50%	2.50%
_				
Cost_of_Living				
Cost-of-Living Adjustments:	1.375% per annum	1.375% per annum	1.375% per annum	1.375% per annum



# Notes to Schedule of the MTA's Contributions for All Pension Plans

(continued)

	MNR Cash Balance Plan										
Valuation Dates:	January 1, 2018	January 1, 2017	January 1, 2016	January 1, 2014							
<b>Measurement Date:</b>	December 31, 2017	December 31, 2016	December 31, 2015	December 31, 2014							
Actuarial cost method:	Unit Credit Cost	Unit Credit Cost	Unit Credit Cost	Unit Credit Cost							
Amortization method:	One-year amortization of the unfunded liability, if any.	One-year amortization of the unfunded liability, if any.	One-year amortization of the unfunded liability, if any.	Period specified in current valuation report (closed 10 year period beginning January 1, 2008 - 4 year period for the January 1, 2014 valuation).							
Asset Valuation Method:	Actuarial value equals market value.	Actuarial value equals market value.	Actuarial value equals market value.	Effective January 1, 2015, the Actuarially Determined Contribution (ADC) will reflect one-year amortization of the unfunded accrued liability in accordance with the funding policy adopted by the MTA.							
Salary increases:	N/A	N/A	N/A	There were no projected salary increase assumptions used in the January 1, 2014 valuation as the participants of the Plan were covered under the Management Plan effective January 1, 1989. For participants of the Plan eligible for additional benefits, these benefits were not valued as the potential liability is de minimus.							
Actuarial assumptions: Discount Rate:	4.00%	4.00%	4.00%	4.50%							
Investment rate of return:	4.00%, net of investment expenses.	4.00%, net of investment expenses.	4.00%, net of investment expenses.	4.50%, net of investment expenses.							
Mortality:	Based on experience of all MTA										
	members reflecting mortality improvement on a generational basis using scale AA. Mortality assumption is based on a 2017 experience study for all MTA plans.	members reflecting mortality improvement on a generational basis using scale AA. Mortality assumption is based on a 2012 experience study for all MTA plans.	members reflecting mortality improvement on a generational basis using scale AA. Mortality assumption is based on a 2012 experience study for all MTA plans.	members reflecting mortality improvement on a generational basis using scale AA. As generational tables, they reflect mortality improvements both before and after the measurement date. Mortality assumption is based on a 2012 experience study for all MTA plans.							
Pre-retirement:	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.							
Post-retirement Healthy Lives:	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP- 2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.							
Post-retirement Disabled Lives:	N/A	N/A	N/A	N/A							
Inflation/Railroad Retirement Wage Base:	2.50%	2.30%	2.30%	2.50%							
Cost-of-Living Adjustments:	N/A	N/A	N/A	N/A							



# Notes to Schedule of the MTA's Contributions for All Pension Plans

(continued)

Valuation Dates:	January 1, 2017	January 1, 2016	January 1, 2015	January 1, 2014
Measurement Date:	December 31, 2017	December 31, 2016	December 31, 2015	December 31, 2014
Actuarial cost method:	Entry Age Normal Cost			
Amortization method:	For Frozen Initial Liability ("FIL") bases, period specified in current valuation report. Future gains/ losses are amortized through the calculation of the normal cost in accordance with FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population for each group.	For Frozen Initial Liability ("FIL") bases, period specified in current valuation report. Future gains/ losses are amortized through the calculation of the normal cost in accordance with FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population for each group.	For Frozen Initial Liability ("FIL") bases, period specified in current valuation report. Future gains/ losses are amortized through the calculation of the normal cost in accordance with FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population for each group.	For Frozen Initial Liability ("FIL") bases, period specified in current valuation report. Future gains/ losses are amortized through the calculation of the normal cost in accordance with FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population for each group.
Asset Valuation Method:	Actuarial value equals market value less unrecognized gains/ losses over a 5-year period. Gains/losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/ losses over a 5-year period. Gains/losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/ losses over a 5-year period. Gains/losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/ losses over a 5-year period. Gains/ losses are based on market value of assets.
Salary increases:	Varies by years of employment, and employee group. 3.5% for MTA Bus hourly employees.	Varies by years of employment, and employee group. 3.5% for MTA Bus hourly employees.	Varies by years of employment, and employee group. 3.5% for MTA Bus hourly employees.	Varies by years of employment, and employee group.
Actuarial assumptions: Discount Rate:	7.00%	7.00%	7.00%	7.00%
Investment rate of return :	7.00%	7.00%	7.00%	7.00%
Mortality:	Pre-retirement and post- retirement healthy annuitant rates are projected on a generational basis using Scale AA. As a general table, it reflects mortality improvements both before and after the measurement date.	Pre-retirement and post- retirement healthy annuitant rates are projected on a generational basis using Scale AA. As a general table, it reflects mortality improvements both before and after the measurement date.	Pre-retirement and post- retirement healthy annuitant rates are projected on a generational basis using Scale AA. As a general table, it reflects mortality improvements both before and after the measurement date.	Pre-retirement and post-retirement healthy annuitant rates are projected on a generational basis using Scale AA, as recommended by the Society of Actuaries Retirement Plans Experience Committee. Ortality assumption is based on a 2012 experience study for all MTA plans.
Pre-retirement:	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.
Post-retirement Healthy Lives:	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.
Post-retirement Disabled Lives:	RP-2014 Disabled Annuitant mortality table for males and females	75% of the rates from the RP-2000 Healthy Annuitant mortality table for males and females. At age 85 and later for males and age 77 and later for females, the disability rates are set to the male and females healthy rates, respectively.	75% of the rates from the RP-2000 Healthy Annuitant mortality table for males and females. At age 85 and later for males and age 77 and later for females, the disability rates are set to the male and females healthy rates, respectively.	75% of the rates from the RP- 2000 Healthy Annuitant mortality table for males and females. At age 85 and later for males and age 77 and later for females, the disability rates are set to the male and females healthy rates, respectively.
Inflation/Railroad Retirement Wage Base:	2.50%; 3.50%	2.50%; 3.50%	2.50%; 3.50%	2.50%; 3.00%
Cost-of-Living Adjustments:	55% of inflation assumption or 1.375%, if applicable.	55% of inflation assumption or 1.375%, if applicable.	55% of inflation assumption or 1.375%, if applicable.	55% of inflation assumption or 1.375%, if applicable.



# REQUIRED SUPPLEMENTARY INFORMATION

## Notes to Schedule of the MTA's Contributions for All Pension Plans

(continued)

	NYCERS Plan							
Valuation Dates:	June 30, 2016	June 30, 2015	June 30, 2014	June 30, 2013				
Measurement Date:	June 30, 2018	June 30, 2017	June 30, 2016	June 30, 2015				
Actuarial cost method:	Entry Age Normal Cost							
Amortization method:	Increasing Dollar for Initial Unfunded; Level Dollar for Post 2010 Unfundeds.	Increasing Dollar for Initial Unfunded; Level Dollar for Post 2010 Unfundeds.	Increasing Dollar for Initial Unfunded; Level Dollar for Post 2010 Unfundeds.	Increasing Dollar for Initial Unfunded; Level Dollar for Post 2010 Unfundeds.				
Asset Valuation Method:	Modified six-year moving average of market values with a Market Value Restart as of June 30, 2011.	Modified six-year moving average of market values with a Market Value Restart as of June 30, 2011.	Modified six-year moving average of market values with a Market Value Restart as of June 30, 2011.	Modified six-year moving average of market values with a Market Value Restart as of June 30, 2011.				
Salary increases:	3% per annum.	3% per annum.	3% per annum.	3% per annum.				
Actuarial assumptions: Discount Rate:	7.00%	7.00%	7.00%	7.00%				
Investment rate of return:	7.00%, net of investment expenses.							
Mortality:	Mortality tables for service and disability pensioners were developed from an experience study of NYCERS's pensioners. The mortality tables for beneficiaries were developed from an experience review of NYCERS' beneficiaries. The most recently completed study was published by Gabriel Roeder & Company ("GRS"), dated October 2015, and analyzed experience for Fiscal Years 2010 thorugh 2013.	Mortality tables for service and disability pensioners were developed from an experience study of NYCERS's pensioners. The mortality tables for beneficiaries were developed from an experience review of NYCERS' beneficiaries. The most recently completed study was published by Gabriel Roeder & Company ("GRS"), dated October 2015, and analyzed experience for Fiscal Years 2010 thorugh 2013.	Mortality tables for service and disability pensioners were developed from an experience study of NYCERS's pensioners. The mortality tables for beneficiaries were developed from an experience review of NYCERS' beneficiaries. The most recently completed study was published by Gabriel Roeder & Company ("GRS"), dated October 2015, and analyzed experience for Fiscal Years 2010 thorugh 2013.	Mortality tables for service and disability pensioners were developed from an experience study of NYCERS's pensioners. The mortality tables for beneficiaries were developed from an experience review of NYCERS' beneficiaries. The most recently completed study was published by Gabriel Roeder & Company ("GRS"), dated October 2015, and analyzed experience for Fiscal Years 2010 thorugh 2013.				
Pre-retirement:	N/A	N/A	N/A	N/A				
Post-retirement Healthy Lives:	N/A	N/A	N/A	N/A				
Post-retirement Disabled Lives:	N/A	N/A	N/A	N/A				
Inflation/Railroad Retirement Wage Base:	2.50%	2.50%	2.50%	2.50%				
Cost-of-Living Adjustments:	1.5% per annum for Auto COLA and 2.5% per annum for Escalation.	1.5% per annum for Auto COLA and 2.5% per annum for Escalation.	1.5% per annum for Auto COLA and 2.5% per annum for Escalation.	1.5% per annum for Auto COLA and 2.5% per annum for Escalation.				



# REQUIRED SUPPLEMENTARY INFORMATION

## Notes to Schedule of the MTA's Contributions for All Pension Plans

(continued)

	NYSLERS Plan							
Valuation Dates:	April 1, 2017	April 1, 2016	April 1, 2015	April 1, 2014				
Measurement Date:	March 31, 2018	March 31, 2017	March 31, 2016	March 31, 2015				
Actuarial cost method:	Aggregate Cost method	Aggregate Cost method	Aggregate Cost method	Aggregate Cost method				
Amortization method:	Evenly over the remaining working lifetimes of the active membership.	Evenly over the remaining working lifetimes of the active membership.	Evenly over the remaining working lifetimes of the active membership.	Evenly over the remaining working lifetimes of the active membership.				
Asset Valuation Method:	5 year level smoothing of the difference between the actual gain and the expected gain using the assumed investment rate of return.	5 year level smoothing of the difference between the actual gain and the expected gain using the assumed investment rate of return.	5 year level smoothing of the difference between the actual gain and the expected gain using the assumed investment rate of return.	5-year level smoothing of the difference between the actual gain and the expected gain using the assumed investment rate of return.				
Salary increases:	3.80%	3.80%	3.80%	4.90%				
Actuarial assumptions: Discount Rate:	7.00%	7.00%	7.00%	7.50%				
Investment rate of return:	7.00%, net of investment expenses.	7.00%, net of investment expenses.	7.00%, net of investment expenses.	7.5%, net of investment expenses.				
Mortality:	Annuitant mortality rates are based on NYSLERS's 2015 experience study of the period April 1, 2010 through March 31, 2015 with adjustments for mortality improvements based on the Society of Actuaries's Scale MP-2014.	Annuitant mortality rates are based on NYSLERS's 2010 experience study of the period April 1, 2005 through March 31, 2010 with adjustments for mortality improvements based on the Society of Actuaries's Scale MP-2014.	Annuitant mortality rates are based on NYSLERS's 2010 experience study of the period April 1, 2005 through March 31, 2010 with adjustments for mortality improvements based on the Society of Actuaries's Scale MP-2014.	Annuitant mortality rates are based on NYSLERS's 2010 experience study of the period April 1, 2005 through March 31, 2010 with adjustments for mortality improvements based on the Society of Actuaries's Scale MP-2014.				
Pre-retirement:	N/A	N/A	N/A	N/A				
Post-retirement Healthy Lives:	N/A	N/A	N/A	N/A				
Post-retirement Disabled Lives:	N/A	N/A	N/A	N/A				
Inflation/Railroad Retirement Wage Base:	2.50%	2.50%	2.50%	2.70%				
Cost-of-Living Adjustments:	1.3% per annum.	1.3% per annum.	1.3% per annum.	1.4% per annum.				



## REQUIRED SUPPLEMENTARY INFORMATION

#### Notes to Schedule of MTA's Contributions for All Pension Plans

(concluded)

Significant methods and assumptions used in calculating the actuarially determined contributions of an employer's proportionate share in Cost Sharing, Multiple-Employer pension plans, the NYCERS plan and the NYSLERS plan, are presented as notes to the schedule.

Factors that significantly affect trends in the amounts reported are changes of benefit terms, changes in the size or composition of the population covered by the benefit terms, or the use of different assumptions. Following is a summary of such factors:

#### Changes of Benefit Terms:

There were no significant legislative changes in benefit for the June 30, 2016 valuation for the NYCERS plan.

There were no significant legislative changes in benefit for the April 1, 2017 valuation for the NYSLERS plan.

#### Changes of Assumptions:

There were no significant changes in the economic and demographic assumptions used in the June 30, 2016 valuation for the NYCERS plan.

There were no significant changes in the economic and demographic assumptions used in the April 1, 2017 valuation for the NYSLERS plan.



## REQUIRED SUPPLEMENTARY INFORMATION

Schedule of Changes in the MTA's Net OPEB Liability and Related Ratios and Notes to Schedule

(\$ in thousands)	OPEB Plan
Plan Measurement Date (December 31):	2017
Total OPEB liability:	
Service cost	\$ 884,548
Interest on total OPEB liability	731,405
Effect of plan changes	27,785
Effect of economic/demographic (gains) or losses	13,605
Effect of assumption changes or inputs	911,465
Benefit payments	(650,994)
Net change in total OPEB liability	1,917,814
Total OPEB liability—beginning	18,787,254
Total OPEB liability—ending (a)	20,705,068
Plan fiduciary net position:	
Employer contributions	650,994
Net investment income	47,370
Benefit payments	(650,994)
Net change in plan fiduciary net position	47,370
Plan fiduciary net position—beginning	322,982
Plan fiduciary net position—ending (b)	370,352
Net OPEB liability—ending (a)-(b)	\$ 20,334,716
Plan fiduciary net position as a percentage	
of the total OPEB liability	1.79%
Covered payroll	\$ 5,394,332
Net OPEB liability as a percentage of covered payroll	376.96%

# **Notes to Schedule:**

Changes of benefit terms: In the July 1, 2017 actuarial valuation, there were no changes to the benefit terms.

Changes of assumptions: In the July 1, 2017 actuarial valuation, there was a change in assumptions. The discount rate used to measure liabilities was updated to incorporate GASB 75 guidance and changed to reflect the current municipal bond rate.

Note: This schedule is intended to show information for ten years. However, until a full 10-year trend has been compiled, information is presented only for the years for which the required supplementary information is available.



# REQUIRED SUPPLEMENTARY INFORMATION

## Schedule of the MTA's Contributions to the OPEB Plan for the years ended December 31:

(\$ in thousands)	2018	2017
Actuarially Determined Contribution	N/A	N/A
Actual Employer Contribution (1)	\$ 696,065	\$ 650,994
Contribution Deficiency (Excess)	N/A	N/A
Covered Payroll	\$ 6,903,700	\$ 5,394,200
Actual Contribution as a Percentage of Covered Payroll	10.08%	12.07%

<sup>&</sup>lt;sup>(1)</sup> Actual employer contribution includes the implicit rate of subsidy adjustment of \$74,484 and \$71,101 for the years ended December 31, 2018 and 2017, respectively.

Note: This schedule is intended to show information for ten years. However, until a full 10-year trend has been compiled, information is presented only for the years for which the required supplementary information is available.



#### REQUIRED SUPPLEMENTARY INFORMATION

#### Notes to Schedule of the MTA's Contributions to the OPEB Plan:

Valuation dateJuly 1, 2017Measurement dateDecember 31, 2017Discount rate3.44%, net of expenses

Inflation 2.50%

Actuarial cost method Entry Age Normal

Amortization method Level percentage of payroll

Normal cost increase factor 4.50% Investment rate of return 6.50%

Salary increases 3%. Varies by years of service and differs for members of the

various pension plans.

Note: This schedule is intended to show information for ten years. However, until a full 10-year trend has been compiled, information is presented only for the years for which the required supplementary information is available.



## SUPPLEMENTARY INFORMATION

Pension And Other Employee Benefit Trust Funds

Combining Statement of Fiduciary Net Position as of December 31, 2018

	Pension Funds				Other Employee Benefit Trust Funds			enefit Trust Funds				
(\$ in thousands)	Defined Pension			RR Company Plan for Additional Pensions	М	IaBSTOA Plan	Metro-North Cash Balance Plan	_	Other Post- employment Benefit Plan	Deferred Compensation 401K Plan	_	Total
ASSETS:												
Cash	\$	13,224	\$	2,484	\$	5,977	\$	-	\$ -	\$ -	\$	21,685
Receivables:												
Employee loans		-		-		36,804		-	-	159,462		196,266
Participant and union contributions		-		-		-		-	-	-		-
Investment securities sold		-		58		672		-	-	-		730
Accrued interest and dividends		2,745		516		1,331		2	14	-		4,608
Other receivables		1,845		92				_				1,937
Total receivables		4,590		666		38,807		2	14	159,462		203,541
Investments at fair value:												
Investments measured at readily determined fair value		787,191		147,855		433,543	47	4	-	-		1,369,063
Investments measured at net asset value	3	3,228,219		669,902		2,379,443		_	351,538	2,286,394		8,915,496
Investments at contract value		-		-		-		-	-	1,313,496		1,313,496
Total investments		4,015,410		817,757		2,812,986	47	4	351,538	3,599,890		11,598,055
Total assets	\$ 4	4,033,224	\$	820,907	\$	2,857,770	\$ 47	6	\$ 351,552	\$ 3,759,352	\$	11,823,281
LIABILITIES:												
Accounts payable and accrued liabilities		5,752		1,035		1,380		-	-	721		8,888
Payable for investment securities purchased		2,699		507		2,148		5	-	-		5,359
Accrued benefits payable		-		-		937		-	172	-		1,109
Accrued postretirement death benefits (PRDB) payable		-		-		2,921		-	-	-		2,921
Accrued 55/25 Additional Members Contribution (AMC) payable		-		-		5,982		-	-	-		5,982
Other liabiliities		293		48	_			_				341
Total liabilities		8,744		1,590	_	13,368		5	172	721		24,600
NET POSITION:												
Restricted for pensions	2	4,024,480		819,317		2,844,402	47	1	-	-		7,688,670
Restricted for postemployment benefits other than pensions		-		-		-		-	351,380	-		351,380
Restricted for other employee benefits		-		-		-		-	-	3,758,631		3,758,631
Total net position		4,024,480		819,317		2,844,402	47	1	351,380	3,758,631		11,798,681
Total liabilities and net position	\$ 4	4,033,224	\$	820,907	\$	2,857,770	\$ 47	<u>6</u>	\$ 351,552	\$ 3,759,352	\$	11,823,281



## SUPPLEMENTARY INFORMATION

Pension And Other Employee Benefit Trust Funds

Combining Statement of Fiduciary Net Position as of December 31, 2017

	Pension Funds					Other Employee Benefit Trust Funds		
(\$ in thousands)	Defined Benefit Pension Plan	LIRR Company Plan for Additional Pensions	MaBSTOA Plan	Metro-North Cash Balance Plan	Other Post- employment Benefit Plan	Deferred Compensation 401K Plan	Total	
ASSETS:								
Cash	\$ 11,812	\$ 1,575	\$ 5,418	\$ -	\$ -	\$ -	\$ 18,805	
Receivables:								
Employee loans	-	-	37,605	-	-	146,347	183,952	
Participant and union contributions	-	(6)	-	-	-	-	(6)	
Investment securities sold	-	363	760	3	-	-	1,126	
Accrued interest and dividends	1,882	399	1,263	3	7	-	3,554	
Other receivables	1,896	(53)	-	-	-	-	1,843	
Total receivables	3,778	703	39,628	6	7	146,347	190,469	
Investments at fair value:								
Investments measured at readily determined fair value	675,779	183,875	387,520	527	-	-	1,247,701	
Investments measured at net asset value	3,369,189	765,925	2,502,012	-	370,596	2,397,108	9,404,830	
Investments at contract value	-	-	-	-	-	1,224,190	1,224,190	
Total investments	4,044,968	949,800	2,889,532	527	370,596	3,621,298	11,876,721	
Total assets	\$ 4,060,558	\$ 952,078	\$ 2,934,578	<u>\$ 533</u>	\$ 370,603	\$ 3,767,645	\$ 12,085,995	
LIABILITIES:								
Accounts payable and accrued liabilities	4,730	(149)	1,567	-	-	675	6,823	
Payable for investment securities purchased	3,575	900	2,250	10	-	-	6,735	
Accrued benefits payable	-	-	2,247	-	251	-	2,498	
Accrued postretirement death benefits (PRDB) payable	-	-	3,344	-	-	-	3,344	
Accrued 55/25 Additional Members Contribution (AMC)			C 101				C 101	
payable Other liabiliities	719	-	6,181	-	-	-	6,181 719	
Total liabilities	9,024	751	15,589	10	251	675	26,300	
	9,024		13,369	10	231		20,300	
NET POSITION:								
Restricted for pensions	4,051,534	951,327	2,918,989	523	-	-	7,922,373	
Restricted for postemployment benefits other than pensions	-	-	-	-	370,352	-	370,352	
Restricted for other employee benefits						3,766,970	3,766,970	
Total net position	4,051,534	951,327	2,918,989	523	370,352	3,766,970	12,059,695	
Total liabilities and net position	\$ 4,060,558	\$ 952,078	\$ 2,934,578	\$ 533	\$ 370,603	\$ 3,767,645	\$ 12,085,995	



## SUPPLEMENTARY INFORMATION

## Pension And Other Employee Benefit Trust Funds

Combining Statement of Changes in Fiduciary Net Position for the year ended December 31, 2018

Combining Statement of Changes in Fiduciary 14	<b>,</b>		n Funds	Other Employee E			
(\$ in thousands)	Defined Benefit Pension Plan	LIRR Additional Plan	MaBSTOA Plan	Metro-North Cash Balance Plan	Other Post- employment Benefit Plan	Deferred Compensation 401K Plan	Total
ADDITIONS:							
Contributions:							
Employer contributions	\$ 338,967	\$ 59,500	\$ 205,433	\$ 5	\$ 616,638	\$ 4,392	1,224,935
Non-Employer contributions	-	-	-	-	-	-	-
Implicit rate subsidy contribution	-	-	-	-	74,484	-	74,484
Participant rollovers	-	-	-	-	-	21,673	21,673
Member contributions	29,902	333	21,955			283,818	336,008
Total contributions	368,869	59,833	227,388	5	691,122	309,883	1,657,100
Investment income:							
Net (depreciation) / appreciation in fair value of							
investments	(169,255)	(35,344)	(97,896)	(15)	(22,591)	(139,054)	(464,155)
Dividend income	56,670	11,441	37,259	-	5,203	-	110,573
Interest income	9,254	1,715	7,891	16	161	-	19,037
Less: Investment expenses	47,091	8,910	35,206		1,689		92,896
Investment income, net	(150,422)	(31,098)	(87,952)	1	(18,916)	(139,054)	(427,441)
Other additions: Loan repayments - interest	0	0	0	0	0	7,529	7,529
Total additions	218,447	28,735	139,436	6	672,206	178,358	1,237,188
DEDUCTIONS:							
Benefit payments and withdrawals	242,149	159,565	213,827	58	616,638	-	1,232,237
Implicit rate subsidy payments	-	-	-	-	74,484	-	74,484
Transfer to other plans	200	-	-	-	-	93,187	93,387
Distribution to participants	-	-	-	-	-	87,379	87,379
Administrative expenses	3,152	1,180	196	-	56	721	5,305
Other deductions						5,410	5,410
Total deductions	245,501	160,745	214,023	58	691,178	186,697	1,498,202
Net increase (decrease) in fiduciary net position	(27,054)	(132,010)	(74,587)	(52)	(18,972)	(8,339)	(261,014)
NET POSITION:							
Restricted for Benefits:							
Beginning of year	4,051,534	951,327	2,918,989	523	370,352	3,766,970	12,059,695
End of year	\$ 4,024,480	\$ 819,317	\$ 2,844,402	\$ 471	\$ 351,380	\$ 3,758,631	\$ 11,798,681



## SUPPLEMENTARY INFORMATION

Pension And Other Employee Benefit Trust Funds

Combining Statement of Changes in Fiduciary Net Position for the year ended December 31, 2017

		Pensior	n Funds	Other Employee B			
(\$ in thousands)	Defined Benefit Pension Plan	LIRR Additional Plan	MaBSTOA Plan	Metro-North Cash Balance Plan	Other Post- employment Benefit Plan	Deferred Compensation 401K Plan	Total
ADDITIONS:							
Contributions:							
Employer contributions	\$ 321,861	\$ 76,523	\$ 202,684	\$ -	\$ 579,893	\$ 4,109	1,185,070
Non-Employer contributions	-	145,000	-	-	-	-	145,000
Implicit rate subsidy contribution	-	-	-	-	71,101	-	71,101
Participant rollovers	-	-	-	-	-	22,430	22,430
Member contributions	30,994	760	19,713			251,122	302,589
Total contributions	352,855	222,283	222,397	-	650,994	277,661	1,726,190
Investment income:							
Net (depreciation) / appreciation in fair value of							
investments	527,182	115,106	363,877	4	42,470	416,584	1,465,223
Dividend income	35,211	7,599	24,125	-	6,697	-	73,632
Interest income	6,522	1,036	6,092	16	64	-	13,730
Less: Investment expenses	52,762	11,127	43,908		1,861		109,658
Investment income, net	516,153	112,614	350,186	20	47,370	416,584	1,442,927
Other additions: Loan repayments - interest	0	0	0	0	0	6,337	6,337
Total additions	869,008	334,897	572,583	20	698,364	700,582	3,175,454
DEDUCTIONS:							
Benefit payments and withdrawals	231,321	159,717	209,121	71	579,893	-	1,180,123
Implicit rate subsidy payments	-	-	-	-	71,101	-	71,101
Transfer to other plans	1,622	-	-	-	-	66,031	67,653
Distribution to participants	-	-	-	-	-	73,733	73,733
Administrative expenses	4,502	1,070	208	-	-	675	6,455
Other deductions						4,895	4,895
Total deductions	237,445	160,787	209,329	71	650,994	145,334	1,403,960
Net increase (decrease) in fiduciary net position	631,563	174,110	363,254	(51)	47,370	555,248	1,771,494
NET POSITION:							
Restricted for Benefits:							
Beginning of year	3,419,971	777,217	2,555,735	574	322,982	3,211,722	10,288,201
End of year	\$ 4,051,534	\$ 951,327	\$ 2,918,989	\$ 523	\$ 370,352	\$ 3,766,970	\$ 12,059,695



#### SUPPLEMENTARY INFORMATION

# SCHEDULE OF CONSOLIDATED RECONCILIATION BETWEEN FINANCIAL PLAN AND FINANCIAL STATEMENTS FOR THE PERIOD ENDED SEPTEMBER 30, 2019 (\$ in millions)

(Unaudited)			
	Financial Plan	Statement	
Category	Actual	<b>GAAP Actual</b>	Variance
REVENUE:			
Farebox revenue	\$ 4,732	\$ 4,732	\$ -
Vehicle toll revenue	1,549	1,548	(1)
Other operating revenue	476	466	(10)
Total revenue	6,757	6,746	(11)
OPERATING EXPENSES:			
Labor:			
Payroll	3,973	3,989	16
Overtime	726	730	4
Health and welfare	994	998	4
Pensions	1,012	1,013	1
Other fringe benefits	670	669	(1)
Postemployment benefits	480	483	3
Reimbursable overhead	(343)	(361)	(18)
Total labor expenses	7,512	7,521	9
Non-labor:			
Electric power	338	338	-
Fuel	134	134	-
Insurance	6	6	-
Claims	302	302	-
Paratransit service contracts	360	360	-
Maintenance and other operating contracts	521	508	(13)
Professional service contract	336	308	(28)
Pollution remediation project costs	6	6	-
Materials and supplies	493	493	-
Other business expenses	160	158_	(2)
Total non-labor expenses	2,656	2,613	(43)
Depreciation	2,135	2,135	-
Total operating expenses	12,303	12,269	(34)
NET OPERATING LOSS	\$ (5,546)	\$ (5,523)	<u>\$ 23</u>



#### SUPPLEMENTARY INFORMATION

SCHEDULE OF CONSOLIDATED SUBSIDY ACCRUAL RECONCILIATION BETWEEN FINANCIAL PLAN AND FINANCIAL STATEMENTS FOR THE PERIOD ENDED SEPTEMBER 30, 2019 (\$ in millions)

(Unaudited)

Accrued Subsidies	Financial Plan Actual	Financial Statement GAAP Actual	Variance	
Mass transportation operating assistance	\$ 1,824	\$ 1,824	\$ -	
Mass transit trust fund subsidies	491	491	-	
Mortgage recording tax 1 and 2	340	340	-	
MRT transfer	-	(3)	(3)	{1}
Urban tax	478	478	-	
State and local operating assistance	341	417	76	{1}
Station maintenance	128	128	-	
Connecticut Department of Transportation (CDOT)	90	90	-	
Subsidy from New York City for MTA Bus and SIRTOA	475	424	(51)	{1}
Build American Bonds Subsidy	45	47	2	{1}
Mobility tax	1,662	1,662	-	
Internet sales tax	43	42	(1)	{1}
NYC Assistance Fund	252	260	8	{1}
Other non-operating income		106	106	{2}
Total accrued subsidies	6,169	6,306	137	
Net operating deficit before subsidies and debt service	(5,546	(5,523)	23	
Debt Service	(1,528	(1,089)	439	
Conversion to Cash basis: Depreciation	2,135	-	(2,135)	
Conversion to Cash basis: GASB 75 OPEB adjustment	(28	-	28	
Conversion to Cash basis: GASB 68 pension adjustment	(108	-	108	
Conversion to Cash basis: Pollution & Remediation	6		(6)	
Total net operating surplus/(deficit) before appropriations, grants and other receipts restricted for capital projects	\$ 1,100	\$ (306)	\$ (1,406)	
100 1101 ouptur projects	Ψ 1,100	<del>* (300)</del>	<del>+ (1,100)</del>	

<sup>{1}</sup> The Financial Plan records on a cash basis while the Financial Statement records on an accrual basis.

<sup>{2}</sup> The Financial Plan records do not include other non-operating income or changes in market value.



#### SUPPLEMENTARY INFORMATION

SCHEDULE OF FINANCIAL PLAN TO FINANCIAL STATEMENTS RECONCILIATION

RECONCILING ITEMS

FOR THE PERIOD ENDED SEPTEMBER 30, 2019

(\$ in millions)

Financial Plan Actual Operating Loss at September 30, 2019	\$	(5,546)			
The Financial Plan Actual Includes:					
1 Higher other operating revenues		(11)			
2 Lower labor expenses		(9)			
3 Higher non-labor expense primarily from higher professional service contract expense projection	.s	43			
Total operating reconciling items	_	23			
Financial Statements Operating Loss at September 30, 2019					
Financial Plan Surplus after Subsidies and Debt Service		1,100			
The Audited Financial Statements Includes:					
1 Debt service bond principal payments		439			
2 Adjustments for non-cash liabilities:					
Depreciation	(2,135)				
GASB 75 OPEB expense adjustment	28				
Unfunded GASB No. 68 pension adjustment	108				
Other non-cash liability adjustment	(6)	(2,005)			
The Financial Statement includes:					
3 Higher dedicated taxes and subsidies		137			
4 Total operating reconciling items (from above)	_	23			
Financial Statement Loss Before Capital Appropriations					