City of Philadelphia

PENNSYLVANIA

Founded 1682



Washington Square

Annual Report of Bonded Indebtedness and Other Long Term Obligations Fiscal Year Ended June 30, 2017



Annual Report of Bonded Indebtedness & Other Long-Term Obligations

Fiscal Year Ended June 30, 2017



City of Philadelphia

PENNSYLVANIA

James F. Kenney Mayor

Prepared by:

Office of the Director of Finance

Rob Dubow
Director of Finance

Josefine Arevalo
Accounting Director



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CITY OF PHILADELPHIA

OFFICE OF THE DIRECTOR OF FINANCE 1401 John F. Kennedy Blvd. Suite 1330, Municipal Services Bldg. Philadelphia, PA 19102-1693 **ROB DUBOW**Director of Finance

February 23, 2018

To the Honorable Mayor, Members of City Council, and the People of the City of Philadelphia:

This letter is intended to serve as an introduction and overview of the City of Philadelphia's Bonded Debt and Other Long-Term Obligations. As of June 30, 2017, the City's total bonded debt outstanding amounted to:

SEVEN BILLION SIX-HUNDRED SEVENTY MILLION DOLLARS

The amount above consists of the following:

BONDED DEBT	(An	(Amounts rounded to millions)						
General Obligation Bonds	\$	1,432						
Revenue Bonds - Water & Aviation		3,183						
Revenue Bonds - PGW		835						
PMA and PICA Bonds		414						
Conduit Debt		1,806						
Total Bonded Debt			\$ 7,670					
OTHER LONG-TERM OBLIGATIONS								
Net Pension Liability		6,139						
Other Post Employment Obligation		323						
Other Long-Term Obligations		617						
Total Other Long-Term Debt			7,079					
Total Bonded Debt & Other Long-Term Obligations			\$ 14,749					

During the course of fiscal year 2017 the City issued the bonds listed below:

- \$125.0 million of Aviation Revenue bonds
- \$472.6 million of Water and Wastewater Revenue bonds
- \$312.4 million of Philadelphia Gas Works Revenue bonds
- \$83.2 million of Philadelphia Municipal Authority (PMA)
- \$262.9 million of General Obligation bonds

The City is subject to a statutory limitation established by the Commonwealth of PA for bonded indebtedness (General Obligation bonds) payable principally from property taxes. In fiscal year 2014, the City instituted the Actual Value Initiative (AVI). This has increased the statutory limit from \$1.7 billion (FY2013) to \$6.6 billion (FY2017). At June 30, 2017, the City's legal borrowing capacity is \$4.7 billion, as noted in Exhibit A-7.

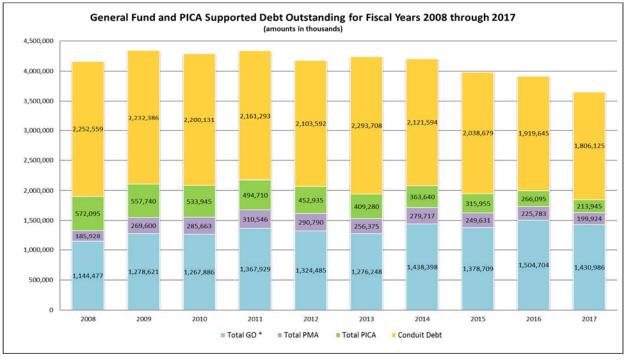
Bond ratings signify the ability of an issuer to meet its financial obligations in a timely fashion. As of February 23, 2018, the City's bond ratings are:

Bond Type	Moody's Investor Service	Standard & Poor's Corporation	Fitch IBCA				
General Obligation Bonds	A2	A+	A-				
Water Revenue Bonds	A1	A+	A+				
Aviation Revenue Bonds	A2	А	А				

Over the last decade, the changes in the City's bond ratings have demonstrated a gradual improvement. The following chart shows the City's 10-year history as of June 30th.

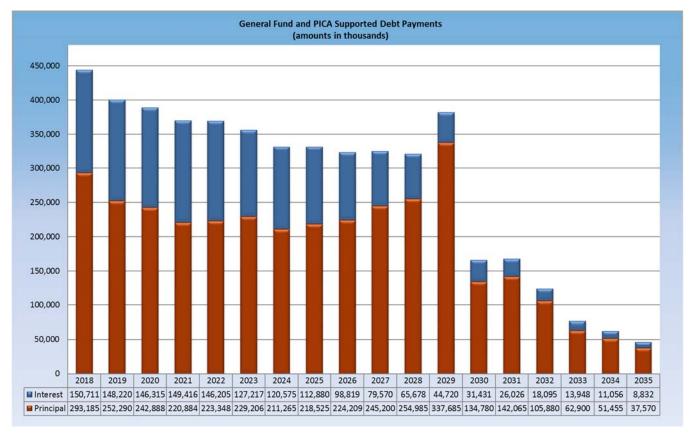
City of Philadelphia's General Obligation Bond Ratings Moody's Investor Standard & Poor's													
Fiscal Year End	Moody's Investor Service	Fitch IBCA											
2017	A2	A+	A-										
2016	A2	A+	A-										
2015	A2	A+	A-										
2014	A2	A+	A-										
2013	A2	A-	A-										
2012	A2	BBB+	A-										
2011	A2	BBB	A-										
2010	A1	BBB	A-										
2009	Baa1	BBB	BBB+										
2008	Baa1	BBB	BBB+										

The chart below illustrates the 10-year history of General Fund-Supported debt outstanding, comprised of Conduit debt, General Obligation, PMA, and PICA bonds. Conduit debt includes Philadelphia Authority for Industrial Development (PAID) and Redevelopment Authority (RDA) bonds.



*The total GO debt outstanding excludes \$0.7 million of self-sustaining debt for 2017

It is also important to understand the City's future principal and interest obligations based on the current debt outstanding. The following chart illustrates the future debt service payments as of June 30, 2017. General Fund-Supported debt represents General Obligation, Philadelphia Authority for Industrial Development (PAID), Redevelopment Authority (RDA), Philadelphia Intergovernmental Cooperation Authority (PICA), and Philadelphia Municipal Authority (PMA) bond issues. The principal payments in fiscal year 2029 include \$254.4 million of PAID bonds, \$15.4 million of RDA bonds, \$2.1 million of PMA bonds, and \$65.7 million of General Obligation bonds.



Refer to Exhibit A-9a

The issuance of debt is the primary method of financing the City's capital projects. As such, the City has and will continue to improve its debt management practices to maintain its financial integrity, flexibility, and credit strength.

Respectfully submitted,

ROB DUBOW

Director of Finance

City of Philadelphia

Part A

Bonded Indebtedness

and

Other Long-Term Obligations

June 30, 2017

Exhibit A-1

Amounts in thousands of USD

Total Debt and General Fund & PICA L-T Obligations Supported Debt City General Obligation Debt Transit 65,176 65,176 Streets and Sanitation 288,998 288,998 Municipal Buildings 572,158 572,158 Recreation, Parks, and Museums 328,888 328,888 174,134 **Economic and Community Development** 174,134 Harbor Improvements 1,629 1,629 Broad Ridge Locust Subway 574 Hospitals Tri Instituional Laundry 48 Vet Stadium 100 1,431,705 1,430,986 Total GO Bond Payable (Exhibit A-9) City Revenue Bonds Water and Sewer Revenue Bonds 1,996,916 Aviation Revenue Bonds 1,186,465 Total City Revenue Bonds 3,183,381 PGW Revenue Bonds Philadelphia Gas Works Revenue Bonds 834,850 Total Revenue Bonds Payable (Exhibit A-5) 4,018,231 Total City GO and Revenue (Exhibit A-3) 5,449,936 1,430,986 Other Long-Term Obligations Payable Blended Component Units Bonds & Lease Payable PMA - Buildings 195.495 195.495 PMA - Equipment Lease 4,429 4,429 PICA - Financial Assistance 213,945 213,945 Total Blended Component Unit Bonds & Lease Payable 413,869 413,869 Conduit Debt PAID - Library 5,570 5,570 PAID - Cultural Corridors 89,205 89,205 RDA - Neighborhood Transformation Initiative 174,670 174,670 PAID - Pension obligation bonds Series 1999 927,200 927,200 PAID - Pension obligation refunding bonds Series 2012 299,805 299,805 PAID - Stadiums 262,830 262,830 PAID - One Parkway (Building) 32,165 32,165 PAID - School District 14,680 14,680 **Total Conduit Debt** 1,806,125 1,806,125 7,669,930 **Total Bonded Debt** 3,650,980 Non-Bond related Other Long-Term Obligations Payable Net Pension Liability 6,138,629 5,476,918 **OPEB Obligation** 323,193 323,193 Other Long-Term Obligations 616,973 562,527 Total Other Long-Term Obligations Payable (Exhibit A-4a) 7,078,795 6,362,638 **TOTAL BONDED DEBT & OTHER LONG-TERM DEBT** 14,748,725 10,013,618

Amount Available and to be Provided for Payment of Long-Term Debt - Principal and Interest		
Bond Principal:		
Amount Available in Sinking Fund Reserves for Revenue Bonds (Notes 1 & 2) Amount of Principal to be Provided in Future Years (Exhibit A-5)	382,515 5,067,421	5,449,936
Other Long-Term Obligations Principal: Amount of Principal to be Provided in Future Years		9,298,789
Bond Interest:		
Amount Available in Sinking Funds for General Obligation Bonds (Exhibit B-1) (Note 2)	355	
Amount Available in Sinking Funds for Revenue Bonds (Exhibit B-4) (Note 2) Amount of Interest to be Provided in Future Years	1,057 2,877,521	2,878,933
Other Long-Term Obligations Interest:		
Amount of Interest to be Provided in Future Years		891,568
Total Amount Available and to be Provided for Payment of Long-Term Debt - Principal and Interest		18,519,226
Principal and Interest Payable in Future Years		
Bonds Payable in Future Years:		
General Obligation Serial Bonds Payable	370,770	
General Obligation Term Bonds Payable General Obligation Refunding Bonds Payable	59,860 1,001,075	1,431,705
Ocheral Obligation Northland Bonds Fayable	1,001,073	1,401,700
Revenue Serial Bonds Payable	2,301,030	
Revenue Term Bonds Payable	1,717,201	4,018,231
Total Bonds Payable (Exhibit A-5)		5,449,936
Other Long-Term Obligations Payable (Exhibit A-4a)		9,298,789
Interest Payable in Future Years:		
General Obligation Bonds	676,544	
Revenue Bonds	2,202,389	
Interest Payable on Other Long-Term Obligations	891,568	3,770,501
Total Principal and Interest Payable in Future Years		18,519,226

	General Fund	Water Fund	Aviation Fund	Gas Works Fund	Total
Bonded Debt Outstanding - July 1, 2016	1,505,575	1,860,324	1,124,705	915,175	5,405,779
Increases:					
Par Value of Bonds Issued: General Obligation Revenue (Notes 5 and 6)	262,865	478,790	125,000	312,425	262,865 916,215
<u>Total Increases</u>	262,865	478,790	125,000	312,425	1,179,080
Decreases: Matured Bonds:					
General Obligation (Note 10) Revenue (Notes 11)	67,890	125,783	- 63,240	- 41,195	67,890 230,218
General Obligation Refunded Revenue Refunded (Note 5)	268,845 	216,415		351,555	567,970
Total Decreases	336,735	342,198	63,240	392,750	1,134,923
Total Debt Outstanding - June 30, 2017 (Exhibit A-5)	1,431,705	1,996,916	1,186,465	834,850	5,449,936

Balance Bala	-	Poginning		Retirements	Ending	Due Within
Bonder Payable Semenar Obligation 1,505.6 262.8 (336.7) 1,431.7 70.8 Philadelphia Municipal Authority (PMA) 217.1 83.2 (104.8) 165.5 28.7 7.0 (4.3) 4.4 4.4 4.4 Philadelphia Intergovernmental Cooperation Authority (PICA) 266.0 - (52.1) 213.9 45.4 4.4		Beginning Balance	Additions		Ending Balance	
Bonds Payable General Obligation 1,505,6 262,8 (336,7) 1,431,7 70.8 Philadelphia Municipal Authority (PMA) 217.1 83.2 (104.8) 195.5 28.7 PMA Lease 2.6	Governmental Activities	Dalarice	<u>/taattoris</u>	<u>a mansiers</u>	Balarice	One real
Peneral Obligation						
Philadelphia Municipal Authority (PMA)	-	1 505 6	262.8	(336.7)	1 431 7	70.8
PMA Lease	•			, ,		
Philadelphia Intergovernmental Cooperation Authority (PICA) 266.0 - (52.1) 213.9 45.4 45.4 45.5 149.3 1.845.5 149.3 1.845.5 149.3 1.845.5 149.3 1.845.5 149.3 1.845.5 149.3 1.845.5 149.3 1.845.5 149.3 1.845.5 149.3 1.845.5 149.3 1.845.5 149.3 1.845.5 149.3 1.845.5 149.3 1.845.5 149.3 1.845.5 149.3 1.845.5 1.84			-	, ,		
Deligations under Lease & Service Agreements			-			
Deligations under Lease & Service Agreements			346			
Pension Service agreement 997.5 34.7 (104.9) 927.3 104.9 Neighborhood Transformation 182.4 - (7.7) 174.7 8.1 One Parkway 34.6 - (2.4) 32.2 2.6 Sports Stadiums 276.5 - (0.6) 5.6 0.6 PAID cultural Corridor bonds 93.6 - (4.4) 89.2 4.2 City Service ageement 299.8 - (4.4) 189.2 4.2 City Service ageement PAID School Dist. 22.1 - (14.4) 11.7 14.7 Total Lease and Service Agreements 1,919.7 34.7 (148.1) 1,866.3 149.2 Nor-Bond Related Debt 40.2 4.0 4.0 4.0 4.0 2.2 2.0 Morkmen's Compensation Claims 70.4 169.6 (153.1) 86.9 2.8 4.0 4.0 4.0 4.0 2.0 2.0 2.0 5.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4						
Neighborhood Transformation	Obligations under Lease & Service Agreements					
One Parkway 34.6 - (2.4) 32.2 2.6 Sports Stadiums 276.5 - (13.7) 262.8 14.1 Library 6.2 - (0.6) 5.6 0.6 PAID cultural Corridor bonds 33.6 - (4.4) 89.2 4.2 City Service ageement PAID School Dist. 29.8 - (14.4) 11.7 14.7 Total Lease and Service Agreements 1,919.7 34.7 (148.1) 1,806.3 149.2 Non-Bond Related Debt Medical and Indemnity Claims 70.4 169.6 (153.1) 86.9 28.4 Workmer's Compensation Claims 70.4 169.6 (153.1) 86.9 28.4 Workmer's Compensation Claims 244.3 60.1 (61.9) 242.5 - Termination Compensation 243.7 9.4 (19.9) 233.2 23.3 Net Pension Liability 5,611.8 - (134.8) 5,477.0 - OPEB Obligation 2,985.0 26.7 </td <td>Pension Service agreement</td> <td>997.5</td> <td>34.7</td> <td>(104.9)</td> <td>927.3</td> <td>104.9</td>	Pension Service agreement	997.5	34.7	(104.9)	927.3	104.9
Sports Stadiums	Neighborhood Transformation	182.4	-	(7.7)	174.7	8.1
Library	One Parkway	34.6	-	(2.4)	32.2	2.6
PAID cultural Corridor bonds	Sports Stadiums	276.5	-	(13.7)	262.8	14.1
City Service ageement PAID School Dist. 299.8 - (14.4) 14.7 14.7 14.7 Total Lease and Service Agreements Payable 3,917.1 380.7 (646.0) 3,651.8 298.5	Library	6.2	-	(0.6)	5.6	0.6
City Service ageement PAID School Dist. 29.1 - (14.4) 14.7 14.7 Total Lease and Service Agreements 1,919.7 34.7 (148.1) 1,806.3 149.2 Non-Bonds and Lease and Service Agreements Payable 3,917.1 380.7 (646.0) 3,651.8 298.5 Non-Bond Related Debt 4 169.6 (153.1) 86.9 28.4 Morkmen's Compensation Claims 70.4 169.6 (153.1) 86.9 28.4 Termination Compensation 243.7 9.4 (19.9) 233.2 23.3 Termination Liability 5,611.8 - (134.8) 5,477.0 - OPEB Obligation 296.5 26.7 - 323.2 - Governmental activity Long-Term Liabilities 10,383.8 646.5 (1,015.7) 10,014.6 350.2 Business-type Activities: Revenue Bonds Payable 478.8 (342.2) 1,996.9 129.9 Aviation 1,124.7 125.0 (63.2) 1,186.5 65.6 Total bonds payable </td <td>PAID cultural Corridor bonds</td> <td>93.6</td> <td>-</td> <td>(4.4)</td> <td>89.2</td> <td>4.2</td>	PAID cultural Corridor bonds	93.6	-	(4.4)	89.2	4.2
Total Lease and Service Agreements 1,919.7 34.7 (148.1) 1,806.3 149.2 Non-Bonds and Lease and Service Agreements Payable 3,917.1 380.7 (646.0) 3,651.8 298.5 Non-Bond Related Debt Medical and Indemnity Claims 70.4 169.6 (153.1) 86.9 28.4 Workmen's Compensation Claims 244.3 60.1 (61.9) 242.5 - Termination Compensation 243.7 9.4 (19.9) 233.2 23.3 Net Pension Liability 5,611.8 - (134.8) 5,477.0 - OPEB Obligation 296.5 26.7 - 323.2 - Governmental activity Long-Term Liabilities 10,383.8 646.5 (1,015.7) 10,014.6 350.2 Business-type Activities: Revenue Bonds Payable Water and Wastewater 1,860.3 478.8 (342.2) 1,996.9 129.9 Aviation 1,124.7 125.0 (63.2) 1,186.5 65.6 Total bonds payable 2,985.0 603.8 <t< td=""><td></td><td></td><td>-</td><td>-</td><td></td><td>-</td></t<>			-	-		-
Non-Bond Related Debt Medical and Indemnity Claims 70.4 169.6 (153.1) 86.9 28.4	-					
Non-Bond Related Debt Medical and Indemnity Claims 70.4 169.6 (153.1) 86.9 28.4 Workmen's Compensation Claims 244.3 60.1 (61.9) 242.5 - 243.7 24.5 23.3	Total Lease and Service Agreements	1,919.7	34.7	(148.1)	1,806.3	149.2
Medical and Indemnity Claims 70.4 169.6 (153.1) 86.9 28.4 Workmen's Compensation Claims 244.3 60.1 (61.9) 242.5 - Termination Compensation 243.7 9.4 (19.9) 233.2 23.3 Secondary States 558.4 239.1 (234.9) 562.6 51.7 Net Pension Liability 5,611.8 - (134.8) 5,477.0 - OPEB Obligation 296.5 26.7 - 323.2 - Governmental activity Long-Term Liabilities 10,383.8 646.5 (1,015.7) 10,014.6 350.2 Business-type Activities: Revenue Bonds Payable Water and Wastewater 1,860.3 478.8 (342.2) 1,996.9 129.9 Aviation 1,124.7 125.0 (63.2) 1,186.5 65.6 Non-Bond Related Debt 2,985.0 603.8 (405.4) 3,183.4 195.5 Medical and Indemnity Claims 9.0 7.1 (8.6) 7.5	Total Bonds and Lease and Service Agreements Payable	3,917.1	380.7	(646.0)	3,651.8	298.5
Medical and Indemnity Claims 70.4 169.6 (153.1) 86.9 28.4 Workmen's Compensation Claims 244.3 60.1 (61.9) 242.5 - Termination Compensation 243.7 9.4 (19.9) 233.2 23.3 Secondary States 558.4 239.1 (234.9) 562.6 51.7 Net Pension Liability 5,611.8 - (134.8) 5,477.0 - OPEB Obligation 296.5 26.7 - 323.2 - Governmental activity Long-Term Liabilities 10,383.8 646.5 (1,015.7) 10,014.6 350.2 Business-type Activities: Revenue Bonds Payable Water and Wastewater 1,860.3 478.8 (342.2) 1,996.9 129.9 Aviation 1,124.7 125.0 (63.2) 1,186.5 65.6 Non-Bond Related Debt 2,985.0 603.8 (405.4) 3,183.4 195.5 Medical and Indemnity Claims 9.0 7.1 (8.6) 7.5	Non-Bond Related Debt					
Workmen's Compensation Claims 244.3 60.1 (61.9) 242.5 - Termination Compensation 243.7 9.4 (19.9) 233.2 23.3 S58.4 239.1 (234.9) 562.6 51.7 Net Pension Liability 5,611.8 - (134.8) 5,477.0 - OPEB Obligation 296.5 26.7 - 323.2 - Governmental activity Long-Term Liabilities 10,383.8 646.5 (1,015.7) 10,014.6 350.2 Business-type Activities: Revenue Bonds Payable 8 8 (46.5) (1,015.7) 10,014.6 350.2 Water and Wastewater 1,860.3 478.8 (342.2) 1,996.9 129.9 Aviation 1,124.7 125.0 (63.2) 1,186.5 65.6 Total bonds payable 2,985.0 603.8 (405.4) 3,183.4 195.5 Non-Bond Related Debt 9.0 7.1 (8.6) 7.5 - Worker's Compensation claims 9.0 </td <td></td> <td>70 4</td> <td>169.6</td> <td>(153.1)</td> <td>86.9</td> <td>28 4</td>		70 4	169.6	(153.1)	86.9	28 4
Termination Compensation 243.7 9.4 (19.9) 233.2 23.3 558.4 239.1 (234.9) 562.6 51.7 Net Pension Liability 5,611.8 - (134.8) 5,477.0 - OPEB Obligation 296.5 26.7 - 323.2 - Governmental activity Long-Term Liabilities 10,383.8 646.5 (1,015.7) 10,014.6 350.2 Business-type Activities: Revenue Bonds Payable 8 478.8 (342.2) 1,996.9 129.9 Water and Wastewater 1,860.3 478.8 (342.2) 1,996.9 129.9 Aviation 1,124.7 125.0 (63.2) 1,186.5 65.6 Total bonds payable 2,985.0 603.8 (405.4) 3,183.4 195.5 Non-Bond Related Debt 9.0 7.1 (8.6) 7.5 - Worker's Compensation claims 9.0 7.1 (8.6) 7.5 - Termination Compensation Payable 19.3 3.6	•			, ,		-
Net Pension Liability 558.4 239.1 (234.9) 562.6 51.7 Net Pension Liability 5,611.8 - (134.8) 5,477.0 - OPEB Obligation 296.5 26.7 - 323.2 - Governmental activity Long-Term Liabilities 10,383.8 646.5 (1,015.7) 10,014.6 350.2 Business-type Activities: Revenue Bonds Payable Variation 478.8 (342.2) 1,996.9 129.9 Aviation 1,124.7 125.0 (63.2) 1,186.5 65.6 Total bonds payable 2,985.0 603.8 (405.4) 3,183.4 195.5 Non-Bond Related Debt 9.0 7.1 (8.6) 7.5 - Wedical and Indemnity Claims 9.0 7.1 (8.6) 7.5 - Worker's Compensation claims 27.1 5.3 (5.5) 26.9 - Termination Compensation Payable 19.3 3.6 (3.2) 19.7 - Arbitrage 55.4	·			, ,		23.3
OPEB Obligation 296.5 26.7 - 323.2 - Governmental activity Long-Term Liabilities 10,383.8 646.5 (1,015.7) 10,014.6 350.2 Business-type Activities: Revenue Bonds Payable 8 8 342.2) 1,996.9 129.9 Water and Wastewater 1,860.3 478.8 (342.2) 1,996.9 129.9 Aviation 1,124.7 125.0 (63.2) 1,186.5 65.6 Total bonds payable 2,985.0 603.8 (405.4) 3,183.4 195.5 Non-Bond Related Debt 8 9.0 7.1 (8.6) 7.5 - Medical and Indemnity Claims 9.0 7.1 (8.6) 7.5 - Worker's Compensation claims 27.1 5.3 (5.5) 26.9 - Termination Compensation Payable 19.3 3.6 (3.2) 19.7 - Arbitrage - - - - - - - Net Pension Liabilit	1 S. M. Later Confederation					
Business-type Activities: Image: Content of the part of the pa	Net Pension Liability	5,611.8	-	(134.8)	5,477.0	-
Business-type Activities: Revenue Bonds Payable 1,860.3 478.8 (342.2) 1,996.9 129.9 Aviation 1,124.7 125.0 (63.2) 1,186.5 65.6 Total bonds payable 2,985.0 603.8 (405.4) 3,183.4 195.5 Non-Bond Related Debt Worker's Compensation Claims 9.0 7.1 (8.6) 7.5 - Worker's Compensation claims 27.1 5.3 (5.5) 26.9 - Termination Compensation Payable 19.3 3.6 (3.2) 19.7 - Arbitrage - - - - - - Net Pension Liability 678.6 - (16.9) 661.7 -	OPEB Obligation	296.5	26.7	-	323.2	-
Revenue Bonds Payable Water and Wastewater 1,860.3 478.8 (342.2) 1,996.9 129.9 Aviation 1,124.7 125.0 (63.2) 1,186.5 65.6 Total bonds payable 2,985.0 603.8 (405.4) 3,183.4 195.5 Non-Bond Related Debt Medical and Indemnity Claims 9.0 7.1 (8.6) 7.5 - Worker's Compensation claims 27.1 5.3 (5.5) 26.9 - Termination Compensation Payable 19.3 3.6 (3.2) 19.7 - Arbitrage - - - - - - - Net Pension Liability 678.6 - (16.9) 661.7 - -	Governmental activity Long-Term Liabilities	10,383.8	646.5	(1,015.7)	10,014.6	350.2
Revenue Bonds Payable Water and Wastewater 1,860.3 478.8 (342.2) 1,996.9 129.9 Aviation 1,124.7 125.0 (63.2) 1,186.5 65.6 Total bonds payable 2,985.0 603.8 (405.4) 3,183.4 195.5 Non-Bond Related Debt Medical and Indemnity Claims 9.0 7.1 (8.6) 7.5 - Worker's Compensation claims 27.1 5.3 (5.5) 26.9 - Termination Compensation Payable 19.3 3.6 (3.2) 19.7 - Arbitrage - - - - - - - Net Pension Liability 678.6 - (16.9) 661.7 - -						
Water and Wastewater 1,860.3 478.8 (342.2) 1,996.9 129.9 Aviation 1,124.7 125.0 (63.2) 1,186.5 65.6 Total bonds payable 2,985.0 603.8 (405.4) 3,183.4 195.5 Non-Bond Related Debt Wedical and Indemnity Claims 9.0 7.1 (8.6) 7.5 - Worker's Compensation claims 27.1 5.3 (5.5) 26.9 - Termination Compensation Payable 19.3 3.6 (3.2) 19.7 - Arbitrage - - - - - - - Net Pension Liability 678.6 - (16.9) 661.7 - -						
Aviation 1,124.7 125.0 (63.2) 1,186.5 65.6 Total bonds payable 2,985.0 603.8 (405.4) 3,183.4 195.5 Non-Bond Related Debt Wedical and Indemnity Claims 9.0 7.1 (8.6) 7.5 - Worker's Compensation claims 27.1 5.3 (5.5) 26.9 - Termination Compensation Payable 19.3 3.6 (3.2) 19.7 - Arbitrage - </td <td>•</td> <td>4 000 0</td> <td>470.0</td> <td>(0.10.0)</td> <td>4 000 0</td> <td>100.0</td>	•	4 000 0	470.0	(0.10.0)	4 000 0	100.0
Total bonds payable 2,985.0 603.8 (405.4) 3,183.4 195.5 Non-Bond Related Debt Medical and Indemnity Claims 9.0 7.1 (8.6) 7.5 - Worker's Compensation claims 27.1 5.3 (5.5) 26.9 - Termination Compensation Payable 19.3 3.6 (3.2) 19.7 - Arbitrage - - - - - - - Net Pension Liability 678.6 - (16.9) 661.7 - -						
Non-Bond Related Debt Medical and Indemnity Claims 9.0 7.1 (8.6) 7.5 - Worker's Compensation claims 27.1 5.3 (5.5) 26.9 - Termination Compensation Payable 19.3 3.6 (3.2) 19.7 - Arbitrage - - - - - - - Net Pension Liability 678.6 - (16.9) 661.7 -						
Medical and Indemnity Claims 9.0 7.1 (8.6) 7.5 - Worker's Compensation claims 27.1 5.3 (5.5) 26.9 - Termination Compensation Payable 19.3 3.6 (3.2) 19.7 - Arbitrage -	· · · · · · · · · · · · · · · · · · ·	2,985.0	003.8	(405.4)	3,163.4	195.5
Worker's Compensation claims 27.1 5.3 (5.5) 26.9 - Termination Compensation Payable 19.3 3.6 (3.2) 19.7 - Arbitrage - - - - - - - Net Pension Liability 678.6 - (16.9) 661.7 -		9.0	7.1	(9.6)	7.5	
Termination Compensation Payable 19.3 3.6 (3.2) 19.7 - Arbitrage - - - - - - 55.4 16.0 (17.3) 54.1 - Net Pension Liability 678.6 - (16.9) 661.7 -						-
Arbitrage -	•					-
55.4 16.0 (17.3) 54.1 - Net Pension Liability 678.6 - (16.9) 661.7 -	· · · · · · · · · · · · · · · · · · ·	19.3	3.0	(3.2)	19.7	-
Net Pension Liability <u>678.6</u> <u>- (16.9)</u> <u>661.7</u> <u>-</u>	Aibiliage		16.0	(17.2)	- E/ 1	
·		55.4	10.0	(17.3)	<u> 34. 1</u>	
·	Net Pension Liability	678.6		(16.9)	661.7	
	Business-type Activity Long-Term Liabilities	3,719.0	619.8	(439.6)	3,899.2	195.5



City of Philadelphia	Exhibit ,
Analysis of Changes in Other Long-Term Obligations	
For the Period July 1, 2016 to June 30, 2017	Amounts in thousands of

City of Philadelphia Analysis of Changes in Other Long-Term Obligations For the Period July 1, 2016 to June 30, 2017	ations			Amounts in th	Exhibit A-4a Amounts in thousands of USD
	General Fund	Water Fund	Aviation Fund	Other Funds	Total All Funds
Balance Outstanding - July 1, 2016 Worker's Compensation Termination Compensation Medical and Indemnity Claims	244,321 243,696 70,365	21,717 10,792 6,484	5,429 8,488 2,007	231	271,467 263,207 78,856
Arbitrage Payable Net Pension Liability OPEB Non bond related debt	5,611,853 296,474 6,466,709	455,841 - 494,834	222,761	231	6,290,455 296,474 7,200,459
Pension Service Agreement Series 1999 Pension Refunding Service Agreement One Parkway	997,414 299,805 34,645				997,414 299,805 34.645
Philadelphia Municipal Authority PMA Equipment Leases Neighborhood Transformation	217,080 217,080 8,693 182,415				217,040 217,080 8,693 182,415
Sports Stadiums Central Library Project Cultural Corridor Project PAID School District PICA Bond related other debt	276,515 6,160 93,585 29,105 266,095 2,411,512				276,515 6,160 93,585 29,105 266,095 2,411,512
Increases: Worker's Compensation Termination Compensation Medical and Indemnity Claims Arbitrage Payable Net Pension Liability	60,068 9,426 169,586 -	4,343 2,653 6,566	939 918 1,093	. 56	65,350 13,053 177,245
Or ED Pension Service Agreement Series 1999 Pension Refunding Service Agreement One Parkway Philadelphia Municipal Authority	34,726				34,726 34,726 - 83,220
PMA Equipment Lease Payments Neighborhood Transformation (Note 9) Sports Stadiums (Note 7) Central Library Project Cultural Corridor Project PAID School District (Note 8) Total Increases	383,745	13,562	2,950	26	400,313

67,413 23,092 161,700	5.	151,826	104,940	•	2,480	104,805	4,264	7,745	13,685	290	4,380	14,425	52,150	713,495	269 404	101,607	253,168	94,401		6,138,629	323,193	7,078,795	927,200	299,805	32,165	195,495	4,429	174,670	262,830	5,570	89,205	14,680	213,945	2,219,994	9,298,789
- 50			ı	•		•	•	•	•	•				20	•	1	267		•			267	•	•	•	•	•	•	•	•	•		1	•	267
980	00.	5,283	ı	1	•	1	•	1	1	1	•	ı	'	9,033	τ. ας. ας.	0,00	8,236	1,500	•	217,478	1	232,602	•	•	1	•	1	1	1	•	•	•	1	•	232,602
4,508 1,992	00,	11,608	1	•	•	•	•	•	•	•	•	1	'	25,108	24 552	200,12	11,453	6,050	•	444,233	•	483,288	•	•	•	•	•	•	•	•	•	•	1	•	483,288
61,925 19,910 153,100	6	134,935	104,940	•	2,480	104,805	4,264	7,745	13,685	290	4,380	14,425	52,150	679,334	747 767	477,404	233,212	86,851		5,476,918	323,193	6,362,638	927,200	299,805	32,165	195,495	4,429	174,670	262,830	5,570	89,205	14,680	213,945	2,219,994	8,582,632
<u>Decreases:</u> Worker's Compensation Termination Compensation Medical and Indemnity Claims	Arbitrage Payable	Net Pension Liability OPEB	Pension Service Agreement Series 1999	Pension Refunding Service Agreement	One Parkway	Philadeolphia Municipal Authority	PMA Equipment Lease Payments	Neighborhood Transformation	Sports Stadiums	Central Library Project	Cultural Corridor Project	PAID School District	PICA	Total Decreases	Balance Outstanding - June 30, 2017	Worker a Compensation	Termination Compensation	Medical and Indemnity Claims	Arbitrage Payable	Net Pension Liability	OPEB	Total non bond related debt	Pension Service Agreement Series 1999	Pension Refunding Service Agreement	One Parkway	Philadelphia Municipal Authority	PMA Equipment Leases	Neighborhood Transformation	Sports Stadiums	Central Library Project	Cultural Corridor Project	PAID School District	PICA	Total Bond related other debt	Total other long term obligations

Funds Responsible for Payment of Debt Service

	General Fund	Water Fund	Aviation Fund	Gas Works Fund	Total	
General Obligation Serial Bonds General Obligation Term Bonds General Obligation Refunding Bonds	370,770 59,860	-	-		370,770 59,860	
Serial	827,640	-	-	-	827,640	
Term	173,435				173,435	
Total General Obligation Bonds	1,431,705				1,431,705	
Revenue Serial Bonds Revenue Term Bonds	<u>-</u>	916,305 1,080,611	745,405 441,060	639,320 195,530	2,301,030 1,717,201	
Total Revenue Bonds		1,996,916	1,186,465	834,850	4,018,231	
Total Bonded Debt Outstanding (Exhibit A-3)	1,431,705	1,996,916	1,186,465	834,850	5,449,936	

Funds Responsible for Payment of Debt Service

	General Fund	Water Fund	Aviation Fund	Gas Works Fund	Total
General Obligation Bonds					
Authorized by Electorate:					
Serial Bonds Outstanding	370,770	-	-	-	370,770
Term Bonds Outstanding	59,860	-	-	-	59,860
Serial Refunding Bonds Outstanding	801,277	-	-	-	801,277
Term Refunding Bonds Outstanding	163,028				163,028
Total Authorized by Electorate	1,394,935	-	-	-	1,394,935
Applicable Sinking Fund Assets					
Net Amount Outstanding	1,394,935				1,394,935
Authorized by Council:					
Serial Refunding Bonds Outstanding	26,363	-	_	_	26,363
Term Refunding Bonds Outstanding	10,407				10,407
Total Authorized By Council	36,770	-	-	-	36,770
Applicable Sinking Fund Assets					
Net Amount Outstanding	36,770				36,770
Net General Obligation Bonds Outstanding	1,431,705				1,431,705
Revenue Bonds					
Authorized by Council:					
Serial Bonds Outstanding	-	916,305	745,405	639,320	2,301,030
Term Bonds Outstanding		1,080,611	441,060	195,530	1,717,201
Total Authorized By Council	-	1,996,916	1,186,465	834,850	4,018,231
Net Assets of Debt Service					
Reserve Fund (Note 1)	_	218,723	76,769	87,023	382,515
, ,					
Net Revenue Bonds Outstanding		1,778,193	1,109,696	747,827	3,635,716
Total Net Bonded Debt Outstanding	1,431,705	1,778,193	1,109,696	747,827	5,067,421

Exhibit A-7

Amounts in millions of USD

		Authorized	
General Obligation Bonded Debt:	Issued and Outstanding	Unissued	<u>Total</u>
Tax Supported Self-Sustaining	1,431.0 0.7	521.0 352.6	1,952.0 353.3
Total General Obligation Bonded Debt	1,431.7	873.6	2,305.3
Total Net Deductions Authorized by Law			353.3
Total Amount of Debt Applicable to Debt Limit			1,952.0
Legal Debt Limit (Notes 1, 2, 3, 4, 5, 6, and 7 below)		:	6,629.5
Legal Debt Margin (Section C note 17)		;	4,677.5

NOTES:

- (1) Refer to Purdon's Statutes 53 P.S. Sections 15721 727 728 761 763 and 781.
- (2) This statement does not reflect \$4,018.2 million of Revenue Bonds, which are secured by a pledge of Water and Sewer Revenues of (\$1,996.9 million), Airport revenues of (\$1,186.5 million), and Gas Works revenues of (\$834.9 million)
- (3) The legal limit is based on the Pennsylvania Constitution Article IX Section 12.
- (4) Calendar Years 2006 2012 assessed values were provided by OPA via The Department of Revenue
- (5) Calendar Year 2013/Tax Year 2014 assessed values were provided by OPA. The higher amount was due to the implementation of the AVI (Actual Value Initiative) in 2013
- (6) Beginning in 2014, the Finance Department began using Calendar Year assessed values to calculate the preceding 10 year average; prior to this change, the Tax Year assessed values was used.
- (7) In August of 1990, the City sold the Philadelphia Port Corporation to the Regional Port Authority (State Authority). Indebtedness authorized for the port related activities was considered self-sustaining. After the sale, the outstanding self sustaining debt was classified as tax supported.

Calendar Year	Tax Year	
of assessment	of assessment	R.E. Assessments
2007	2008	12,901,810,390
2008	2009	13,307,070,680
2009	2010	13,102,186,291
2010	2011	13,522,847,116
2011	2012	13,602,484,741
2012	2013	13,755,670,566
2013	2014	107,209,023,547
2014	2015	106,062,882,977
2015	2016	98,268,051,621
2016	2017	99,343,238,214
	Ten Year Average	49,107,526,614
	Limit per Art. 9	13.50%
	Legal Debt Limit	6,629,516,093

No.		2008	2009	<u>2010</u>	<u>2011</u>	2012	2013	2014	<u>2015</u>	<u>2016</u>	<u>2017</u>
	Water and Sewer Revenue Bonds										
1	Total Revenue and Beginning Fund Balance	597.8	527.5	566.7	589.7	613.3	638.4	680.4	676.8	678.9	720.6
2	Net Operating Expenses	334.7	342.6	334.0	357.7	375.1	399.3	410.8	402.9	408.6	455.7
3	Transfer To (From) Rate Stabilization Fund	(9.8)	(34.7)	(2.7)	10.9	8.5	(4.7)	22.9	21.4	(1.6)	(4.6)
4	Net Revenues	272.9	219.6	235.4	221.1	229.7	243.8	246.7	252.5	271.9	269.5
-	Debt Service:										
5	Revenue Bonds Outstanding	173.8	183.0	195.7	184.3	191.4	201.0	201.7	205.3	219.3	206.1
	Transfer to Escrow Account to Redeem Bonds	-	-	-	-	-	-	-	-	-	11.0
6	Other Adjustments	-	-	-	-	-	-	-	-	-	(1.2)
7	Pennvest Loan	1.2	1.2	1.2	1.2	1.0					
8	Total Debt Service	175.0	184.2	196.9	185.5	192.4	201.0	201.7	205.3	219.3	215.9
9	Net Revenue after Debt Service	97.9	35.4	38.5	35.6	37.3	42.8	45.0	47.2	52.6	53.6
10	Transfer to General Fund	5.0	4.2	2.3	_	1.1	0.6			_	_
11	Transfer to Capital Fund	16.9	17.1	17.3	18.1	18.9	19.4	20.2	20.7	21.5	22.3
12	Transfer to Residual Fund	76.0	14.1	18.9	17.5	17.3	22.8	24.8	26.5	31.1	31.3
13	Ending Fund Balance										
	t Service Coverage:										
	overage A (Line 4/Line 5)	1.57	1.20	1.20	1.20	1.20	1.21	1.22	1.23	1.24	1.31
Co	overage B (Line 4/(Line 8 + Line 11))	1.42	1.09	1.10	1.09	1.09	1.11	1.11	1.12	1.13	1.18
	Airport Revenue Bonds										
1	Fund Balance	42.6	61.4	55.1	77.6	65.9	69.3	66.5	66.3	71.2	87.9
2	Project Revenues	250.5	255.3	246.9	260.8	269.6	291.8	316.9	322.8	341.2	362.0
3	Passenger Facility Charges	32.9	32.9	33.1	32.4	31.6	31.2	31.2	31.2	31.2	33.7
4	Total Fund Balance and Revenue	326.0	349.6	335.1	370.8	367.1	392.3	414.6	420.3	443.6	483.6
5	Net Operating Expenses	99.8	99.5	102.9	98.1	99.0	110.7	117.3	126.0	132.1	136.5
6	Interdepartmental Charges	89.1	89.0	80.7	88.6	92.7	101.9	103.9	108.7	106.8	116.7
-											
7	Total Expenses	188.9	188.5	183.6	186.7	191.7	212.6	221.2	234.7	238.9	253.2
	Available for Debt Service:										
8	Revenue Bonds (Line 4-Line 5)	226.2	250.1	232.2	272.7	268.1	281.6	297.3	294.3	311.5	347.1
9	All Bonds (Line 4-Line 7)	137.1	161.1	151.5	184.1	175.4	179.7	193.4	185.6	204.7	230.4
	Debt Service:										
10	Revenue Bonds	84.4	95.6	94.3	102.4	103.0	109.8	125.4	125.2	120.6	122.6
11	General Obligation Bonds										
12	Total Debt Service	84.4	95.6	94.3	102.4	103.0	109.8	125.4	125.2	120.6	122.6
	t Service Coverage:										
	evenue Bonds Only - Test "A" (Line 8/Line 10)	2.68	2.62	2.46	2.66	2.60	2.56	2.37	2.35	2.58	2.83
To	tal Debt Service - Test "B" (Line 9/Line 12)	1.62	1.69	1.61	1.80	1.70	1.64	1.54	1.48	1.69	1.88

Note:

The rate covenant of the Aviation issues permit inclusion of Fund Balance at the beginning of the period with project revenues for the period to determine adequacy of coverage.

Coverage "A" requires that Net Revenues equal at least 120% of the Debt Service Requirements while Coverage "B" requires that Net Revenues equal at least 100% of the Debt Service Requirements plus Required Capital Account Transfers. Test "A" requires that Project Resources be equal to Net Operating Expenses plus 150% of Revenue Bond Debt Service for the year. Test "B" requires Project Resources be equal to Operating Expenses for the year plus all debt service requirements for the year except any General Obligation Debt Service not applicable to the project.

Amounts in the above statement have been extracted from reports submitted to the respective Fiscal Agents in accordance with the reporting requirements of the General Ordinance and Supplemental Ordinance relative to rate covenants. Water and Sewer Coverage is calculated on the modified accrual basis; Aviation Fund on the accrual basis. Prior to FY2008 Airport Revenues and Expenses were reduced by amounts applicable to the Outside Terminal Area and the Overseas Terminal as prescribed by the indenture.

Prior to FY2015, Commitments Cancelled were included as part of Total Revenue and Beginning Fund Balance. Beginning in FY2015 these amounts were reclassified as contra-expenses and reported under Net Operating Expenses.

City of Philadelphia City Related Annual Debt Service on Long-Term Debt June 30, 2017

				General (Seneral Obligation Bonds	Bonds						Revenue Bonds	Bonds		
i	Ta	Tax-Supported	p	Self	Self-Sustaining	Вı		Total		Wa	Water and Sewer	ver	U	Gas Works	
Fiscal <u>Year</u>	Principal	Interest	Total	Principal	Interest	Total	Principal	Interest	Total	Principal	Interest	Total	Principal	Interest	Total
2018	70.7	69.5	140.2	0.1	٠	0.1	70.8	69.5	140.3	129.8	89.1	218.9	53.5	37.4	90.9
2019	74.3	62.9	140.2	0.1	•	0.1	74.4	62.9	140.3	103.9	84.7	188.6	48.8	35.1	83.9
2020	76.4	62.3	138.7	0.2	ı	0.2	9.9/	62.3	138.9	96.8	79.9	176.7	49.5	32.7	82.2
2021	6.69	58.7	128.6	0.1	٠	0.1	70.0	58.7	128.7	80.5	76.0	156.5	45.6	30.4	76.0
2022	72.9	55.2	128.1	0.2	٠	0.2	73.1	55.2	128.3	73.1	72.4	145.5	50.9	28.0	78.9
2023	77.8	51.5	129.3	1	٠	٠	77.8	51.5	129.3	77.1	69.2	146.3	51.8	25.5	77.3
2024	81.7	47.5	129.2	i	•	•	81.7	47.5	129.2	56.1	62.9	122.0	35.2	23.3	58.5
2025	85.7	43.2	128.9	i			85.7	43.2	128.9	58.6	63.6	122.2	55.5	21.1	9.92
2026	82.4	39.0	121.4	•			82.4	39.0	121.4	58.9	61.1	120.0	49.0	18.7	67.7
2027	86.4	34.7	121.1	1	•	•	86.4	34.7	121.1	61.2	58.6	119.8	50.9	16.4	67.3
2028	91.1	30.2	121.3	ı	٠	٠	91.1	30.2	121.3	48.2	56.4	104.6	50.1	14.1	64.2
2029	65.7	26.3	92.0	•	•		65.7	26.3	92.0	64.3	54.0	118.3	52.5	11.8	64.3
2030	81.5	22.6	104.1	1	٠	٠	81.5	22.6	104.1	67.3	51.0	118.3	24.1	10.0	34.1
2031	86.3	18.4	104.7	ı	•	•	86.3	18.4	104.7	70.3	48.0	118.3	25.3	8.8	34.1
2032	90.7	14.0	104.7	1	•	•	2.06	14.0	104.7	71.5	45.0	116.5	26.6	7.5	34.1
2033	55.6	10.4	0.99	•			55.6	10.4	0.99	45.2	42.6	87.8	27.9	6.1	34.0
2034	43.8	7.8	51.6	ı		•	43.8	7.8	51.6	47.3	40.4	87.7	20.9	4.9	25.8
2035	29.5	5.9	35.4	1	•	•	29.5	5.9	35.4	49.5	38.2	87.7	44.1	3.9	48.0
2036	31.0	4.5	35.5	•			31.0	4.5	35.5	51.7	36.0	87.7	9.6	3.3	12.9
2037	17.3	3.3	20.6	•			17.3	3.3	20.6	52.4	33.5	85.9	17.7	2.7	20.4
2038	17.8	2.4	20.2	1		•	17.8	2.4	20.2	55.0	30.9	85.9	18.5	1.8	20.3
2039	18.7	1.5	20.2				18.7	1.5	20.2	57.8	28.1	82.9	8.5	1.2	9.7
2040	7.6	0.9	8.5	•		•	7.6	0.9	8.5	8.09	25.1	85.9	0.6	0.7	9.7
2041	7.9	9.0	8.5	•			7.9	9.0	8.5	0.69	22.3	91.3	9.4	0.2	9.6
2042	8.3	0.2	8.5	•			8.3	0.2	8.5	64.8	18.5	83.3	•		
2043				ı	•		•	٠	•	68.1	15.2	83.3	i	•	
2044	•	•		•			•	•	•	53.2	11.7	64.9	•		
2045	•		ı	1		ı	1	•	1	44.9	9.5	54.1	1	•	•
2046	•		1		•	ı	•	٠	•	47.2	6.9	54.1	i	•	
2047	•		1	٠	•	•	•	•	•	13.7	5.4	19.1	1		
2048	1	٠	1		•	Ī	ı	•	ı	14.4	4.7	19.1	1	•	Ī
2049-2053	1	٠	•	1	٠	•	•	٠	•	84.3	11.1	95.4	1	•	•
Total bond related debt (Notes 13 & 14)	1,431.0	676.5	2,107.5	0.7	1	0.7	1,431.7	676.5	2,108.2	1,996.9	1,354.7	3,351.6	834.9	345.6	1,180.5
Total Non bond related debt															
Available City Sinking Fund Assets		0.3	0.3		1	•		0.3	0.3	218.7	8.0	219.5	87.0	•	87.0
(Notes 1, & 2, and 15)															
Net Debt	1,431.0	676.2	2,107.2	0.7		0.7	1,431.7	676.2	2,107.9	1,778.2	1,353.9	3,132.1	747.9	345.6	1,093.5

City of Philadelphia City Related Annual Debt Service on Long-Term Debt June 30, 2017

	(A)			260.0	226.6	217.3	205.4	205.3	275.9	288.1	296.3	400.1	97.1	86.0	65.7	62.3	62.0	19.3	10.9	10.9	10.8	6.0	6.0	10.9	6.0	4.0	4.1	4.1	4.1	4.0	ı					3.9			.	3.9
	ides PN	ı	Total	26	22	21	20	20	27	28	29	40	0	80	9	9	9	_	_	_	_	_	_	_	_											2,863.9				2,863.9
	Conduit Debt (includes PMA)		nterest	83.0	87.5	91.4	87.3	89.2	75.7	74.0	70.5	9.09	45.4	36.0	18.7	9.0	6.2	4.1	3.5	3.2	2.8	2.5	2.1	1.7	1.2	0.7	9.0	0.5	0.3	0.1	•	•	•	•	'	857.8			•	857.8
	Conduit D		Principal	177.0	139.1	125.9	118.1	116.1	200.2	214.1	225.8	339.5	51.7	20.0	47.0	53.3	55.8	15.2	7.4	7.7	8.0	8.4	8.8	9.5	9.7	3.3	3.5	3.6	3.8	3.9	1	•	•	1	•	2,006.1			•	2,006.1
gation	Bonds		Total	571.9	527.2	512.3	475.6	582.3	461.6	418.3	436.2	402.4	401.5	376.2	319.1	297.2	297.8	293.4	226.0	203.2	209.2	166.5	157.4	145.1	134.4	122.8	109.4	91.8	83.3	64.9	54.1	54.1	19.1	19.1	95.4	8,328.8		0	383.8	7,945.0
Total General Obligation	Bonds and Revenue Bonds		nterest	252.2	238.3	224.3	211.2	198.1	182.4	169.4	157.0	144.3	131.9	119.3	107.3	97.3	87.5	77.4	68.8	61.3	54.7	48.9	43.4	37.7	32.5	27.6	23.1	18.7	15.2	11.7	9.5	6.9	5.4	4.7	11.1	2,878.8		•	<u>.</u>	2,877.5
Total G	Bonds an		Principal	319.7	288.9	288.0	264.4	384.2	279.2	248.9	279.2	258.1	269.6	256.9	211.8	199.9	210.3	216.0	157.2	141.9	154.5	117.6	114.0	107.4	101.9	95.2	86.3	73.1	68.1	53.2	44.9	47.2	13.7	14.4	84.3	5,450.0			382.5	5,067.5
			Total	431.6	386.9	373.4	346.9	454.0	332.3	289.1	307.3	281.0	280.4	254.9	227.1	193.1	193.1	188.7	160.0	151.6	173.8	131.0	136.8	124.9	114.2	114.3	100.9	83.3	83.3	64.9	54.1	54.1	19.1	19.1	95.4	6,220.6			383.5	5,837.1
	Total		nterest	182.7	172.4	162.0	152.5	142.9	130.9	121.9	113.8	105.3	97.2	89.1	81.0	74.7	69.1	63.4	58.4	53.5	48.8	44.4	40.1	35.3	31.0	26.7	22.5	18.5	15.2	11.7	9.5	6.9	5.4	4.7	11.1	2,202.3		•	0:	2,201.3
Revenue Bonds			Principal	248.9	214.5	211.4	194.4	311.1	201.4	167.2	193.5	175.7	183.2	165.8	146.1	118.4	124.0	125.3	101.6	98.1	125.0	9.98	2.96	9.68	83.2	87.6	78.4	64.8	68.1	53.2	44.9	47.2	13.7	14.4	84.3	4,018.3		(382.5	3,635.8
Revenu			Total	121.8	114.4	114.5	114.4	229.6	108.7	108.6	108.5	93.3	93.3	86.1	44.5	40.7	40.7	38.1	38.2	38.1	38.1	30.4	30.5	18.7	18.6	18.7	•				•			i	'	1,688.5		1	0.77	1,611.5
	Aviation		nterest	56.2	52.6	49.4	46.1	42.5	36.2	32.7	29.1	25.5	22.2	18.6	15.2	13.7	12.3	10.9	9.7	8.2	6.7	5.1	3.9	2.6	1.7	0.9	•				•			1	•	502.0		(0.2	501.8
			Principal	9.59	61.8	65.1	68.3	187.1	72.5	75.9	79.4	8.29	71.1	67.5	29.3	27.0	28.4	27.2	28.5	29.9	31.4	25.3	26.6	16.1	16.9	17.8	•		•		•	•	•	1	•	1,186.5		c C	76.8	1,109.7
•	•	Fiscal	<u>Year</u>	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049-2053	Total bond related debt (Notes 13 & 14)	Total Non bond related debt	Available City Sinking Fund	ASSetS (Notes 1, & 2 and 15)	Net Debt

City Related Annual Debt Service on Long-Term Debt City of Philadelphia

776.5 718.3 706.4 732.5 802.5 498.6 462.2 384.8 359.5 359.8 236.9 214.1 156.0 Exhibit A-9 Amounts in millions of USD 760.5 312.7 220.0 177.4 168.3 145.3 126.8 113.5 95.9 383.8 18,135.4 7,078.8 11,440.4 Total Long-Term Debt 3,769.1 322.1 302.9 227.5 204.9 177.3 155.3 126.0 106.3 93.7 81.5 72.3 64.5 57.5 45.5 39.4 33.7 28.3 23.7 19.2 259.2 243.4 290.1 3,770.4 14,366.3 258.8 164.6 149.6 162.5 122.8 116.6 89.8 382.5 463.0 321.3 306.9 253.2 266.1 231.2 126.0 111.6 98.5 44.9 7,670.0 7,078.8 10,190.4 273.8 264.2 242.7 242.5 298.9 288.1 296.3 400.1 19.3 10.9 3,111.6 Total Other Long-Term Obligations 86.0 65.7 62.3 62.0 7,078.8 97.1 45.4 36.0 18.7 891.6 891.6 9,298.8 150.5 222.1 214.1 225.8 339.5 51.7 50.0 47.0 53.3 55.8 15.2 7.4 2,220.0 7,078.8 Principal 47.2 46.9 37.3 37.2 23.0 247.7 247.7 56.1 Pennsylvania Intergovernmental Cooperation Authority 33.8 33.8 Interest 213.9 213.9 38.8 40.5 32.9 34.4 Principal Total bond related Total Non bond related debt debt (Notes 18 & 19) June 30, 2017 Available City Sinking Fund (Notes 1, 2 & 3) 2049-2053 Net Debt Assets 2048 2047

City of Philadelphia General Fund and PICA Supported Bonded Debt June 30, 2017

	General	General Obligation Bonds	Bonds	Conduit	Conduit Debt (includes PMA)	es PMA)	Pennsylva Cook	Pennsylvania Intergovernmental Cooperation Authority	ernmental ıority	Total General	Total General Fund & PICA Supported Debt	Supported Debt
Fiscal <u>Year</u>	Principal	Interest	Total	Principal	Interest	Total	Principal	Interest	Total	Principal	Interest	Total
2018	70.7	69.5	140.2	177.0	83.0	260.0	45.4	10.7	56.1	293.1	163.2	456.3
2019	74.3	62.9	140.2	139.1	87.5	226.6	38.8	8.4	47.2	252.2	161.8	414.0
2020	76.4	62.3	138.7	125.9	91.4	217.3	40.5	6.4	46.9	242.8	160.1	402.9
2021	6.69	58.7	128.6	118.1	87.3	205.4	32.9	4.4	37.3	220.9	150.4	371.3
2022	72.9	55.2	128.1	116.1	89.2	205.3	34.4	2.8	37.2	223.4	147.2	370.6
2023	77.8	51.5	129.3	200.2	75.7	275.9	21.9	1.1	23.0	299.9	128.3	428.2
2024	81.7	47.5	129.2	214.1	74.0	288.1	•	•		295.8	121.5	417.3
2025	85.7	43.2	128.9	225.8	70.5	296.3	•			311.5	113.7	425.2
2026	82.4	39.0	121.4	339.5	9.09	400.1	•			421.9	9.66	521.5
2027	86.4	34.7	121.1	51.7	45.4	97.1	٠	•		138.1	80.1	218.2
2028	91.1	30.2	121.3	20.0	36.0	86.0				141.1	66.2	207.3
2029	65.7	26.3	92.0	47.0	18.7	65.7	•	ı		112.7	45.0	157.7
2030	81.5	22.6	104.1	53.3	9.0	62.3				134.8	31.6	166.4
2031	86.3	18.4	104.7	55.8	6.2	62.0	٠	•		142.1	24.6	166.7
2032	90.7	14.0	104.7	15.2	4.1	19.3	•			105.9	18.1	124.0
2033	55.6	10.4	0.99	7.4	3.5	10.9	•			63.0	13.9	76.9
2034	43.8	7.8	51.6	7.7	3.2	10.9	•	1		51.5	11.0	62.5
2035	29.5	5.9	35.4	8.0	2.8	10.8	•	ı	1	37.5	8.7	46.2
2036	31.0	4.5	35.5	8.4	2.5	10.9	•			39.4	7.0	46.4
2037	17.3	3.3	20.6	8.8	2.1	10.9	•	1	1	26.1	5.4	31.5
2038	17.8	2.4	20.2	9.2	1.7	10.9	•			27.0	4.1	31.1
2039	18.7	1.5	20.2	9.7	1.2	10.9	•	1		28.4	2.7	31.1
2040	7.6	0.0	8.5	3.3	0.7	4.0	•	ı	•	10.9	1.6	12.5
2041	7.9	9.0	8.5	3.5	9.0	4.1	•	•		11.4	1.2	12.6
2042	8.3	0.2	8.5	3.6	0.5	4.1	•		•	11.9	0.7	12.6
2043	•	•	•	3.8	0.3	4.1	•		•	3.8	0.3	4.1
2044	•	•	•	3.9	0.1	4.0		•		3.9	0.1	4.0
2045	•	•	1	1	•	•	•	1	•	•		•
Total	1,431.0	676.5	2,107.5	2,006.1	857.8	2,863.9	213.9	33.8	247.7	3,651.0	1,568.1	5,219.1
Available City Sinking Fund												
Assets (Notes 1, 2, & 15)		0.3	0.3	•	•	•	•	•		1	0.3	0.3
Net Debt	1,431.0	676.2	2,107.2	2,006.1	857.8	2,863.9	213.9	33.8	247.7	3,651.0	1,567.8	5,218.8

Interest	Debt	Interest	Debt	Interest	Debt
Rate (%)	Outstanding	Rate (%)	Outstanding	Rate (%)	Outstanding
1.193 *	134,634	4.100	1,385	5.000 *	2,672,205
2.729 *	162	4.125 *	4,050	5.000	802,000
2.797 *	125,000	4.125	4,510	5.125 *	50,005
3.000 *	12,990	4.200 *	2,205	5.125	28,135
3.000	925	4.250 *	73,860	5.250 *	256,805
3.125 *	6,110	4.250	18,380	5.250	291,710
3.250 *	1,415	4.300 *	3,400	5.300	3,190
3.250	-	4.375 *	1,960	5.375 *	16,055
3.375 *	1,565	4.400 *	1,250	5.375	7,315
3.500 *	4,060	4.500 *	26,805	5.450	4,085
3.600 *	-	4.500	25,475	5.500	24,700
3.750 *	9,300	4.625 *	19,470	5.750 *	8,080
3.750	525	4.750 *	64,910	5.750	-
4.000 *	172,310	4.750	13,860	5.875	-
4.000	72,040	4.875 *	2,350	6.000	31,280
4.100 *	12,385	4.875	2,190	6.500	-
* Denotes Reve	nue Bonds	(Note 16)	* Water Variable Ra	ate Bonds	71,380
200.00 1.010		(**************************************	* PGW Variable Ra		152,810
			* Aviation Variable F		110,700
			, , , , , , , , , , , , , , , , , , , ,	10.10 20.100	
			G.O. Variable Rate	Bonds	100,000
					5,449,936
					0,110,000
			Conoral Obligation	Dondo	1 404 705
			General Obligation Revenue Bonds	DUNUS	1,431,705
			Revenue bonds		4,018,231
			Total		5,449,936

For The Fiscal Years 2013 through 2017				Amounts in thou	ısands of USD
	2013	2014	2015	2016	2017
Gross Bonded Debt:					
Gross Bonded Debt, Beginning of Fiscal Year Bonds Issued During Fiscal Year:	5,715,806	5,446,243	5,606,180	5,573,599	5,405,779
General Obligation Bonds	-	362,635	-	330,380	262,865
Revenue Bonds	85,815	316,746	418,318	365,373	916,215
Total	5,801,621	6,125,624	6,024,498	6,269,352	6,584,859
Bonds Paid During Fiscal Year:					
General Obligation Bonds (Note 15)	48,535	50,905	59,850	59,175	67,890
Revenue Bonds (Notes 16)	224,428	220,719	237,789	241,583	230,218
General Obligation Bonds Refunded (Notes 6 and 7)	-	149,750	-	145,330	268,845
Revenue Bonds Refunded (Note 9)	82,415	98,070	153,260	417,485	567,970
Gross Bonded Debt, End of Fiscal Year	5,446,243	5,606,180	5,573,599	5,405,779	5,449,936
Increase (Decrease) in Gross Bonded Debt	(269,563)	159,937	(32,581)	(167,820)	44,157
Net Bonded Debt:					
Net Bonded Debt, Beginning of Fiscal Year	5,424,740	5,089,546	5,239,438	5,199,359	5,050,530
Bonds Issued During Fiscal Year:					
General Obligation Bonds	-	362,635	-	330,380	262,865
Revenue Bonds	85,815	316,747	418,318	365,373	916,215
Total	5,510,555	5,768,928	5,657,756	5,895,112	6,229,610
Adjustments to Net Bonded Debt During Fiscal Year:					
Deductions:					
Sinking Fund Reserve Earnings	700	1,325	1,616	2,762	2,207
Sinking Fund Assets held by Fiscal Agent					
for Payment of Principal	-	-		-	
Debt Service Reserve from Sale of Revenue Bonds	-	8,667	7,052	-	7,755
Contributions from Water Residual Fund	66,638	454	-	-	-
Contributions from Aviation Fund	-	-	-	-	31,000
Bonds Paid at Maturity Other Than through Accumulating Sinking Funds	272,963	271,624	297,639	300,758	298,108
Refunded Revenue Bonds	82,415	98,070	153,260	417,485	567,970
Refunded General Obligation Bonds	02,413	149,750	133,200	145,330	268,845
Proceeds from Sale of Revenue Bond Refunding Issues	_	-	_	- 10,000	200,010
Proceeds from Sale of General Obligation Bond Refunding Issues	_	_	_	_	_
Additions:		_	-	-	_
Earnings Transferred to Other Funds	1,707	400	1,170	21,753	13,696
Funds Transferred to Fiscal Agent					<u> </u>
Net Bonded Debt and Bond Anticipation Notes,					
End of Fiscal Year	5,089,546	5,239,438	5,199,359	5,050,530	5,067,421
Increase (Decrease) in Net Bonded Debt	(335,194)	149,892	(40,079)	(148,829)	16,891
Gross Bonded Debt to Net Bonded Debt:					
Gross Bonded Debt, End of Fiscal Year	5,446,243	5,606,180	5,573,599	5,405,779	5,449,936
Sinking Fund Assets held by Fiscal Agent		, -, -,	,	, -, -	, -,
for Payment of Principal	-	-	-	-	-
Revenue Bond Debt Service Reserve Funds (Notes 1, 2 & 3)	356,697	366,742	374,240	355,249	382,515
Net Bonded Debt and Bond Anticipation Notes,					
End of Year	5,089,546	5,239,438	5,199,359	5,050,530	5,067,421
	=	=			•

		Funds R	esponsible for I	Payment of Debt Se	<u>ervice</u>		
			General Fund	Water Fund	Aviation Fund	Gas Works Fund	Total
Loan							
1,000,000	September 25, 1950	е	24	-	-	-	24
7,000,000	September 30, 1958	е	2,400	-	-	-	2,400
5,600,000	October 6, 1961	е	425	-	-	-	425
87,330,000	September 17, 1964	е	41,300	-	-	-	41,300
8,400,000	October 4, 1967	е	4,880	-	-	-	4,880
17,400,000	October 2, 1969	е	-	17,400	-	-	17,400
40,000,000	September 26, 1970	е	-	-	-	15,000	15,000
100,000,000	September 26, 1970	е	-	-	12,500	-	12,500
17,100,000	September 26, 1970	е	-	17,100	-	-	17,100
50,000,000	October 4, 1971	е	-	-	50,000	-	50,000
17,000,000	October 4, 1971	е	-	-	-	17,000	17,000
17,700,000	October 4, 1971	е	-	17,700	-	-	17,700
50,000,000	September 29, 1972	е	-	-	-	50,000	50,000
64,500,000	September 29, 1972	е	-	64,500	-	-	64,500
10,000,000	September 28, 1973	е	-	-	-	10,000	10,000
32,385,000	September 28, 1973	е	-	32,385	-	-	32,385
350,000,000	June 3, 2009	С	-	32,079	-	-	32,079
106,690,000	September 17, 2010	е	8,138	-	-	-	8,138
111,295,000	September 14, 2011	е	8,487	-	-	-	8,487
450,000,000	July 5, 2012	С	-	250,000	-	-	250,000
123,670,000	September 14, 2012	е	15,192	-	-	-	15,192
94,745,000	Septeber 16, 2013	е	11,638	-	-	-	11,638
137,295,000	Sepember 11, 2014	е	137,295		-	-	137,295
155,965,000	June 18, 2015	е	155,965		-	-	155,965
600,000,000	December 8, 2015	С		594,315	-	-	594,315
184,303,000	September 6, 2016	е	184,303	-	-	-	184,303
Total Bonds Au	thorized by Unissued		570,047	1,025,479	62,500	92,000	1,750,026

c - Councilmanic Loan ; e - Loan Voted by People

•	•	nds Authorized but L Ended June 30, 201			
	General Fund	Water Fund	Aviation Fund	Gas Works Fund	Total
Balance at July 1, 2016	385,744	711,589	62,500	92,000	1,251,833
Additions: General Obligation Bonds Authorized During the Period	447,168	792,680	-	-	1,239,848
Revenue Bonds Authorized During the Period			125,000	312,425	437,425
	447,168	792,680	125,000	312,425	1,677,273
Deductions: General Obligation Bonds					
Issued During the Period (Notes 6 and 7) Revenue Bonds	262,865	472,545			
Issued During the Period (Notes 8, 9, and 10)		6,245	125,000	312,425	443,670
(100000, 0, and 10)	262,865	478,790	125,000	312,425	1,179,080
Balance at June 30, 2017	570,047	1,025,479	62,500	92,000	1,750,026

	General Fund	Water Fund	Aviation Fund	Gas Works Fund	Total
General Obligation Bonds Outstanding	1,431,705	-	-	-	1,431,705
Revenue Bonds Outstanding	-	1,996,916	1,186,465	834,850	4,018,231
Authorized Debt Unissued (Exhibit A-12)	570,047	1,025,479	62,500	92,000	1,750,026
Total Debt Outstanding and Unissued	2,001,752	3,022,395	1,248,965	926,850	7,199,962

Overlapping governments are those that coincide, at least in part, with the geographic boundries of the City. The outstanding debt of the School District of Philadelphia is supported by property taxes levied on properties within the City boundries. 100% of the debt listed below is supported by City residents and businesses.

		School	
	City of	District of	
	Philadelphia	Philadelphia	
		•	
	General	General	
Fiscal	Bonded	Bonded	
Year	Debt	Debt	Total
2008	4,135.9	2,633.7	6,769.6
	.,	_,000	0,1 00.0
2009	4,311.2	2 902 9	7 204 0
2009	4,311.2	2,892.8	7,204.0
0040	4.074.4	0.000.5	7 000 0
2010	4,271.1	3,092.5	7,363.6
2011	4,282.9	2,866.3	7,149.2
2012	4,143.1	3,067.5	7,210.6
	·	,	· ·
2013	4,279.8	3,260.0	7,539.8
2010	7,27 3.0	3,200.0	7,000.0
004.4	4.077.4	0.070.7	7.050.0
2014	4,277.1	3,073.7	7,350.8
2015	4,066.4	3,125.2	7,191.6
2016	4,041.9	2,984.5	7,026.4
	•	,	· · · · · · · · · · · · · · · · · · ·
2017	3,799.2	3,082.6	6,881.8
2017	5,733.2	5,002.0	0,001.0

Title	Date of Bonds	Range of Maturities	Range of Interest Rates %	Principal Amount
General Obligation Bonds, Series 2007A	Dec. 20, 2007	Aug. 1, 2017-2019	5 to 5-1/4	57,075
General Obligation Bonds, Series 2007A General Obligation Bonds, Series 2008A	May 1, 2008	Dec. 15, 2017-2019	5 to 5-1/4 5 to 5-1/4	17,825
General Obligation Bonds, Series 2009A	Aug. 13, 2009	Aug. 1, 2019-2031	4-1/4 to 5-1/2	215,210
General Obligation Bonds, Series 2009A General Obligation Bonds, Series 2009B	Aug. 13, 2009 Aug. 13, 2009	Aug. 1, 2019-2031 Aug. 1, 2027-2031	Variable	100,000
General Obligation Bonds, Series 2003B	Apr. 19, 2011	Aug. 1, 2017-2041	3-1/4 to 6-1/2	100,665
General Obligation Bonds, Series 2012A	May 8, 2012	Sep. 15, 2019-2021	5	19,925
General Obligation Bonds, Series 2013A	Jul. 30, 2013	Jul. 15, 2017-2033	4-1/8 to 5-1/4	182,345
General Obligation Bonds, Series 2014A	Feb. 6, 2014	Jul. 15, 2017-2038	3 to 5-1/4	151,220
General Obligation Bonds, Series 2015A	Jul. 8, 2015	Aug. 1, 2017-2031	4 to 5	138,795
General Obligation Bonds, Series 2015B	Sep. 30, 2015	Aug. 1, 2017-2035	2 to 5	185,780
General Obligation Bonds, Series 2017	Feb. 2, 2017	Aug. 1, 2017-2035 Aug. 1, 2018-2041	4 to 5	262,865
General Obligation Bonds, Genes 2017	160. 2, 2017	General Obligation Bonds		1,431,705
		Ceneral Obligation Bonds	Outstanding	1,401,700
Water and Wastewater Revenue Bonds, Series 1997B	Nov. 25, 1997	Aug. 1, 2017-2027	Variable	53,200
Water and Wastewater Revenue Bonds, Series 1999A	Apr. 22, 1999	Jul. 1, 2017 - Apr. 1, 2019	2-7/10	162
Water and Wastewater Revenue Bonds, Series 2005B	May 4, 2005	Aug. 1, 2017-2018	Variable	18,180
Water and Wastewater Revenue Bonds, Series 2007A	May 9, 2007	Aug. 1, 2017-2027	4-1/2 to 5	9,925
Water and Wastewater Revenue Bonds, Series 2007B	May 9, 2007	Nov. 1, 2017 to 2031	4 to 5	151,455
Water and Wastewater Revenue Bonds, Series 2009A	May 21, 2009	Jan. 1, 2018-2036	4 to 5-3/4	8,980
Water and Wastewater Revenue Bonds, Series 2009B	Apr. 20, 2009	Jul. 1, 2017-2033	1-2/10	19,298
Water and Wastewater Revenue Bonds, Series 2009C	Apr. 20, 2009	Jul. 1, 2017-2033	1-2/10	35,668
Water and Wastewater Revenue Bonds, Series 2009D	Apr. 20, 2009	Jul. 1, 2017-2033	1-2/10	55,985
Water and Wastewater Revenue Bonds, Series 2010B	Apr. 20, 2009	Jul. 1, 2017-2033	1-2/10	23,683
Water and Wastewater Revenue Bonds, Series 2010A	Apr. 15, 2010	Jun. 15, 2018-2019	3-3/4 to 5	69,880
Water and Wastewater Revenue Bonds, Series 2010C	Aug. 5, 2010	Aug. 1, 2017-2040	3 to 5	134,005
Water and Wastewater Revenue Bonds, Series 2011A	Nov. 16, 2011	Jan. 1, 2033-2041	4-1/2 to 5	135,000
Water and Wastewater Revenue Bonds, Series 2011B	Nov. 16, 2011	Nov. 1, 2017-2026	4 to 5	44,220
Water and Wastewater Revenue Bonds, Series 2012	Nov. 1, 2012	Nov. 1, 2025-2028	5	65,005
Water and Wastewater Revenue Bonds, Series 2013A	Aug. 22, 2013	Jan. 1, 2018-2043	4 to 5-1/8	166,575
Water and Wastewater Revenue Bonds, Series 2014A	Jan. 23, 2014	Jul. 1, 2017 to 2043	3 to 5	117,200
Water and Wastewater Revenue Bonds, Series 2015A	Apr. 16, 2015	Jul. 1, 2036-45	5	275,820
Water and Wastewater Revenue Bonds, Series 2015B	Apr. 16, 2015	Jul. 1, 2019-35	4 to 5	141,740
Water and Wastewater Revenue Bonds, Series 2016	Nov. 3, 2016	Oct. 1, 2018-35	3 to 5	191,070
Water and Wastewater Revenue Bonds, Series 2017A	Apr. 13, 2017	Oct. 1, 2018-52	5 to 5-1/4	279,865
Gas Works Revenue Bonds, Fifth Series A-2	Oct. 19, 2004	Sep. 1, 2034	Variable	30,000
Gas Works Revenue Bonds, Seventh Series	May 15, 2007	Oct. 1, 2017-2037	5	16,070
Gas Works Revenue Bonds, Eighth Series A	Aug. 20, 2009	Aug. 1, 2017	5 to 5-1/4	7,840
Gas Works Revenue Bonds, Eighth Series B	Aug. 20, 2009	Aug. 1, 2017-2028	Variable	27,370
Gas Works Revenue Bonds, Eighth Series C	Aug. 20, 2009	Aug. 1, 2017-2028	Variable	27,225
Gas Works Revenue Bonds, Eighth Series D	Aug. 20, 2009	Aug. 1, 2017-2028	Variable	40,845
Gas Works Revenue Bonds, Eighth Series E	Aug. 20, 2009	Aug. 1, 2017-2028	Variable	27,370
Gas Works Revenue Bonds, Ninth Series	Aug. 26, 2010	Aug. 1, 2017-2040	3 to 5-1/4	67,860
Gas Works Revenue Bonds, Tenth Series	Sep. 28, 2011	Jul. 1, 2017-2026	3-1/4 to 5	35,355
Gas Works Revenue Bonds, Thirteenth Series	Aug. 18, 2015	Aug. 1, 2017-2034	3 to 5	245,470
Gas Works Revenue Bonds, Fourteenth Series	Aug. 30, 2016	Oct. 1, 2017-2037	4 to 5	309,445
Airport Revenue Bonds, Series 1998B	Jul. 1, 1998	Jun. 15, 2028	5-1/8	5
Airport Revenue Bonds, Series 2005C	Jun. 2, 2005	Jun. 15, 2018-2025	Variable	110,700
Airport Revenue Bonds, Series 2007A	Aug. 16, 2007	Jun. 15, 2018-2037	5	146,780
Airport Revenue Bonds, Series 2007B	Aug. 16, 2007	Jun. 15, 2018-2027	5	46,785
Airport Revenue Bonds, Series 2009A	Apr. 14, 2009	Jun. 15, 2018-2029	4 to 5-3/8	32,930
Airport Revenue Bonds, Series 2010A Airport Revenue Bonds, Series 2010C	Nov. 15, 2010	Jun. 15, 2018-2040	3-3/4 to 5-1/4 5	251,310 8 995
Airport Revenue Bonds, Series 2010D	Nov. 15, 2010 Nov. 15, 2010	Jun. 15, 2018 Jun. 15, 2018-2028		8,995 185 755
Airport Revenue Bonds, Series 2010b Airport Revenue Bonds, Series 2011A	Dec. 14, 2011	Jun. 15, 2018-2028 Jun. 15, 2018-2028	4 to 5-1/4	185,755 161 240
Airport Revenue Bonds, Series 2011A Airport Revenue Bonds, Series 2011B	Dec. 14, 2011	Jun. 15, 2018-2031	4-5/8 to 5	161,240 26,440
Airport Revenue Bonds, Series 2011B Airport Revenue Bonds, Series 2015A	Sep. 3, 2015	Jun. 15, 2018-2032	3 to 5 4 to 5	90,525
Airport Revenue Bonds, Series 2017	Apr. 27, 2017	Jul. 1, 2018-2022	2-7/10	125,000
Allport Neverlue Dollas, Selles 2017	ημι. 21, 2011	Revenue Bonds Outstandi		4,018,231
				7,010,201
		Total Bonds Outstanding		5,449,936

Title	Date of Bonds	Legal Counsel & Nature	Bond Type	Maturity Date	Call Date	Interest Rate %	Amount Outstanding
General Obligation Bonds	Dec. 20, 2007	(14e)	Serial-Rfdg.	Aug. 1, 2017		5-1/4	26,375
Series 2007A	200. 20, 200.	(1.0)	Conai riiagi	Aug. 1, 2018-19	Aug. 1, 2017	5	30,700
							57,075
Series 2008A	May 1, 2008	(14e)	Serial-Rfdg.	Dec. 15, 2017-18		5	17,825 17,825
General Obligation Bonds	Aug. 13, 2009	(16e)	Serial-Rfdg.	Aug. 1, 2019	A.v. 4 2040	4-1/4	4,816
Series 2009A				Aug. 1, 2020 Aug. 1, 2021	Aug. 1, 2019 Aug. 1, 2019	4-1/2 4-3/4	16,550 8,984
				Aug. 1, 2021	Aug. 1, 2019	5-1/4	7,284
				Aug. 1, 2022	Aug. 1, 2019	4-3/4	2,553
				Aug. 1, 2022	Aug. 1, 2019	5-1/4	21,842
				Aug. 1, 2023	Aug. 1, 2019	5	11,136
				Aug. 1, 2023	Aug. 1, 2019	5-1/2	14,563
				Aug. 1, 2024	Aug. 1, 2019	5	21,430
				Aug. 1, 2024	Aug. 1, 2019	5-1/2	5,618
				Aug. 1, 2025	Aug. 1, 2019	5-1/8	22,986
				Aug. 1, 2026	Aug. 1, 2019	5	20,539
				Aug. 1, 2026	Aug. 1, 2019	5-1/4	3,645
				Aug. 1, 2027	Aug. 1, 2019	5-1/4	3,423
				Aug. 1, 2028	Aug. 1, 2019	5-1/4	2,280
				Aug. 1, 2029	Aug. 1, 2019	5-3/10	2,607
				Aug. 1, 2030 Aug. 1, 2031	Aug. 1, 2019 Aug. 1, 2019	5-3/8 5-9/20	2,958 3,338
				Aug. 1, 2031	Aug. 1, 2019	3-9/20	176,552
		(40.)	0 : 1 5/1				
		(16c)	Serial-Rfdg.	Aug. 1, 2019	A 1 2010	4-1/4	939
				Aug. 1, 2020	Aug. 1, 2019	4-1/2 4-3/4	3,225 1,751
				Aug. 1, 2021 Aug. 1, 2021	Aug. 1, 2019 Aug. 1, 2019	5-1/4	1,631
				Aug. 1, 2022	Aug. 1, 2019	4-3/4	572
				Aug. 1, 2022	Aug. 1, 2019	5-1/4	4,893
				Aug. 1, 2023	Aug. 1, 2019	5	2,494
				Aug. 1, 2023	Aug. 1, 2019	5-1/2	3,262
				Aug. 1, 2024	Aug. 1, 2019	5	4,800
				Aug. 1, 2024	Aug. 1, 2019	5-1/2	1,257
				Aug. 1, 2025	Aug. 1, 2019	5-1/8	5,149
				Aug. 1, 2026	Aug. 1, 2019	5	4,601
				Aug. 1, 2026	Aug. 1, 2019	5-1/4	815
				Aug. 1, 2027	Aug. 1, 2019	5-1/4	767
				Aug. 1, 2028 Aug. 1, 2029	Aug. 1, 2019 Aug. 1, 2019	5-1/4 5-3/10	510 583
				Aug. 1, 2030	Aug. 1, 2019 Aug. 1, 2019	5-3/8	662
				Aug. 1, 2031	Aug. 1, 2019	5-9/20	747
							38,658
							215,210
General Obligation Bonds	Aug. 13, 2009	(16e)	Term-Rfdg.	Aug. 1, 2027-31		N.A.	92,707
Series 2009B	3 -,	(16c)	Term-Rfdg.	Aug. 1, 2027-31	Feb. 1, 2010	N.A.	7,293
		, ,					100,000
General Obligation Bonds	Apr. 19, 2011	(19e)	Serial	Aug. 1, 2017-19		5-1/4	7,775
Series 2011				Aug. 1, 2020		4-1/4	940
				Aug. 1, 2020		5	1,920
				Aug. 1, 2021	Aug. 1 2020	4-7/8	2,190
				Aug. 1, 2021	Aug. 1 2020	5-1/4	820
				Aug. 1, 2022-23	Aug. 1 2020	5 5.1/4	6,490
				Aug. 1, 2024 Aug. 1, 2025	Aug. 1 2020 Aug. 1 2020	5-1/4 5-3/8	3,500 3,695
			Term	Aug. 1, 2026 Aug. 1, 2032-36	Aug. 1 2020 Aug. 1 2020 Aug. 1 2020	5-1/4 6	3,895 31,280

Title	Date of Bonds	Legal Counsel & Nature	Bond Type	Maturity Date	Call Date	Interest Rate %	Amount Outstanding
Series 2011 Refunding	Apr. 19, 2011	(19c)	Serial-Rfdg.	Aug. 1, 2017 Aug. 1, 2017 Aug. 1, 2018 Aug. 1, 2018 Aug. 1, 2019 Aug. 1, 2019 Aug. 1, 2020 Aug. 1, 2020		3-3/4 5-1/4 4-1/10 5-1/4 4-1/2 5-1/4 4-1/2	16 261 42 250 69 213 192 102
		(19e)	Serial-Rfdg.	Aug. 1, 2017 Aug. 1, 2017 Aug. 1, 2018 Aug. 1, 2018 Aug. 1, 2019 Aug. 1, 2019 Aug. 1, 2020 Aug. 1, 2020		3-3/4 5-1/4 4-1/10 5-1/4 4-1/2 5-1/4 4-1/2	509 8,449 1,343 8,080 2,226 6,877 6,228 3,303 37,015
General Obligation Bonds Series 2012A	May 8, 2012	(19e)	Serial-Rfdg.	Sep. 15, 2019 Sep. 15, 2021		5 5	9,706 9,858 19,564
		(19c)	Serial-Rfdg.	Sep. 15, 2019 Sep. 15, 2021		5 5	179 182 361
General Obligation Bonds Series 2013A	Jul. 30,2013	(23e)	Serial	Jul. 15, 2017-2023 Jul. 15, 2024 Jul. 15, 2025 Jul. 15, 2024-2033	Jul. 15, 2021 Jul. 15, 2021 Jul. 15, 2021	5 4-1/8 4-1/4 5-1/4	19,925 56,880 4,510 5,265 115,690 182,345
General Obligation Bonds Series 2014A	Feb. 6, 2014	(23c)	Serial Term	Jul. 15, 2017 Jul. 15, 2018 Jul. 15, 2019-2023 Jul. 15, 2024-26 Jul. 15, 2027-2034 Jul. 15, 2035-2038	Jan. 15, 2024 Jan. 15, 2024 Jan. 15, 2024	3 4 5 5 5-1/4 5	68 304 1,760 1,289 4,596 3,114 11,131
		(23e)	Serial Term	Jul. 15, 2017 Jul. 15, 2018 Jul. 15, 2019-2023 Jul. 15, 2024-26 Jul. 15, 2027-2034 Jul. 15, 2035-2038	Jan. 15, 2024 Jan. 15, 2024 Jan. 15, 2024	3 4 5 5 5-1/4 5	856 3,821 22,150 16,217 57,839 39,206 140,089
General Obligation Bonds Series 2015A	Jul. 8, 2015	(25e)	Serial-Rfdg.	Aug. 1 2017 Aug. 1 2018 Aug. 1 2019-2025 Aug. 1 2026-2031	Aug. 1, 2025	5 4 5 5	151,220 10,125 7,405 63,280 57,985 138,795
General Obligation Bonds Series 2015B	Sep. 30, 2015	(26e)	Serial Term	Aug. 1 2017-24 Aug. 1 2025-33 Aug. 1 2034-35	Aug. 1, 2025	5 5 4	57,710 99,490 28,580 185,780
General Obligation Bonds Series 2017	Feb. 2, 2017	(25e)	Serial Term	Aug. 1 2018 Aug. 1 2019-27 Aug. 1 2028-37 Aug. 1 2038-39 Aug. 1 2040-41	Aug. 1, 2027	4 5 5 4 5	7,040 120,905 103,805 14,855 16,260
	Total General Ol	oligation Bo	nds Outstandii	ng			262,865 1,431,705

Title	Date of Bonds	Legal Counsel & Nature	Bond Type	Maturity Date	Call Date	Interest Rate %	Amount Outstanding
Revenue Bonds - Water and Sewer B							
Water & Wastewater Rev. Bonds Variable Rate, Series 1997B	Nov. 25, 1997	(1c)	Serial-Var.	Aug. 1, 2017-27	Aug. 1, 1999	N.A.	53,200
Water & Wastewater Rev. Bonds	Apr. 22, 1999	(3c)	Term	Jul. 1, 2017-Apr. 1, 2019		2-7/10	162
Pennsylvania Infrastructure Investment Authority Series 1999A	•	, ,					
Water & Wastewater Revenue Ref. Bonds, Var. Rate, Series 2005B	May 4, 2005	(7c)	Term-Var.	Aug. 1, 2017-18	Aug. 1, 2009	N.A.	18,180
Water & Wastewater Revenue Ref. Bonds, Series 2007A	May 9, 2007	(11c)	Serial-Rfdg.	Aug. 1, 2017		5	9,925
Water & Wastewater Revenue	May 9, 2007	(11c)	Serial-Rfdg.	Nov. 1, 2017		4	275
Ref. Bonds, Series 2007B	, ,	, ,	Ü	Nov. 1, 2018	Nov. 1, 2017	5	285
			T 5(1	Nov. 1, 2019-20	Nov. 1, 2017	5	8,140
			Term-Rfdg.	Nov. 1, 2021-22	Nov. 1, 2017	5	8,940
			Serial-Rfdg. Term-Rfdg.	Nov. 1, 2023-24 Nov. 1, 2025-31	Nov. 1, 2017 Nov. 1, 2017	4-1/2 4-1/4	18,625 57,735
			remi-raug.	Nov. 1, 2025-31	Nov. 1, 2017	4-3/4	57,455
				,	, ==		151,455
Water & Wastewater Rev. Bonds	May 21, 2009	(15c)	Serial	Jan. 1, 2018-19		5-3/4	8,080
Series 2009A				Jan. 1, 2018		5	100
				Jan. 1, 2019		4-1/8	800 8,980
Water & Wastewater Rev. Bonds	Aug. 5, 2010	(20c)	Serial	Aug. 1, 2017-18		3	2,130
Series 2010C				Aug. 1, 2017-19		5	36,850
				Aug. 1, 2019		4	400
				Aug. 1, 2020 Aug. 1, 2021-22	Aug. 1, 2020	5 5	3,230 3,395
				Aug. 1, 2023	Aug. 1, 2020	3-3/4	950
				Aug. 1, 2026	Aug. 1, 2020	4-1/10	1,900
				Aug. 1, 2027	Aug. 1, 2020	4-1/4	2,000
				Aug. 1, 2028	Aug. 1, 2020	4-3/10	3,400
				Aug. 1, 2028	Aug. 1, 2020	5 4-2/5	1,290
				Aug. 1, 2029 Aug. 1, 2029	Aug. 1, 2020 Aug. 1, 2020	4-2/5 5	1,250 3,665
				Aug. 1, 2030	Aug. 1, 2020	4-1/2	2,280
				Aug. 1, 2030	Aug. 1, 2020	5	2,875
			Term	Aug. 1, 2031-35	Aug. 1, 2020	4-3/4	5,210
				Aug. 1, 2031-35	Aug. 1, 2020	5	24,750 38.430
				Aug. 1, 2036-40	Aug. 1, 2020	5	134,005
Water & Wastewater Rev. Bonds	Apr. 20, 2009	(18c)	Term	Jul. 1, 2017-33		1-2/10	19,298
Pennsylvania Infrastructure	Apr. 20, 2009	(18c)	Term	Jul. 1, 2017-33		1-2/10	35,668
Investment Authority Series	Apr. 20, 2009	(18c)	Term	Jul. 1, 2017-33		1-2/10	55,985
2009B, 2009C, 2009D & 2010B	Apr. 20, 2009	(18c)	Term	Jul. 1, 2017-33		1-2/10	23,683 134,634
Water & Wastewater Revenue	Apr. 15, 2010	(17c)	Serial-Rfdg.	Jun. 15, 2018-19		5	53,280
Ref. Bonds, Series 2010A		()		Jun. 15, 2018		3-3/4	6,115
				Jun. 15, 2019		4-1/10	10,485
Water & Wastewater Rev. Bonds	Nov. 16, 2011	(22c)	Term	Jan. 1, 2033-36	Jan. 1, 2021	4-1/2	2,600
	Nov. 16, 2011	(22c)	Term	Jan. 1, 2033-36	Jan. 1, 2021	5	50,185
Water & Wastewater Rev. Bonds Series 2011A	Nov. 16, 2011	(22c)	Term				

	Date of	Legal Counsel	Bond			Interest	Amount
Title	Bonds	& Nature	Туре	Maturity Date	Call Date	Rate %	Outstanding
Water & Wastewater Revenue	Nov. 16, 2011	(22c)	Serial	Nov. 1, 2017		4	1,225
Ref. Bonds, Series 2011B				Nov. 1, 2017-21		5	32,650
				Nov. 1, 2022-26	Nov. 1, 2021	5	10,345
							44,220
Water & Wastewater Revenue Ref. Bonds, Series 2012	Nov. 1, 2012	(22c)	Serial-Rfdg.	Nov. 1, 2025-28	Nov. 1, 2022	5	65,005
Vater & Wastewater Revenue	Aug. 22, 2013	(17c)	Serial	Jan. 1, 2018-19		5	6,850
Bonds, Series 2013A	7.ug. 22, 2010	(110)	001141	Jan. 1, 2020		3	210
				Jan. 1, 2020		5	30,635
				Jan. 1, 2021		4	5,025
				Jan. 1, 2021-2022		5	49,780
				Jan. 1, 2023		4	210
				Jan. 1, 2023	Nov. 1, 2022	5 5 1/9	23,865
				Jan. 1, 2041-43	Nov. 1, 2022	5-1/8	50,000 166,575
							100,373
Nater & Wastewater Revenue	Jan. 23, 2014	(24c)	Serial-Rfdg.	Jul. 1, 2017		3	2,000
Ref. Bonds, Series 2014A			•	Jul. 1, 2017		5	4,225
				Jul. 1, 2018-20		5	20,415
				Jul. 1, 2021		4	2,445
				Jul. 1, 2021		5	5,045
				Jul. 1, 2022		4	2,820
				Jul. 1, 2022		5	5,020
				Jul. 1, 2023 Jul. 1, 2023		4 5	3,210 4,990
				Jul. 1, 2024		5	8,595
				Jul. 1, 2025-27	Jul. 1, 2024	5	28,435
				oui. 1, 2020 27	Odi. 1, 2024	Ü	87,200
Nater & Wastewater Revenue Ref. Bonds, Series 2014A	Jan. 23, 2014	(24c)	Term-Rfdg.	Jul. 1, 2041-43	Jul. 1, 2024	5	30,000
Water & Wastewater Revenue Bonds, Series 2015A	Apr. 16, 2015	(24c)	Term	Jul. 1, 2036-45	Jul. 1, 2024	5	275,820
Nater & Wastewater Revenue Ref.	Apr. 16, 2015	(24c)	Serial-Rfdg.	Jul. 1, 2019-22		5	44,770
Bonds, Series 2015B	•	, ,	Ü	Jul. 1, 2028-33	Jul. 1, 2025	5	69,280
				Jul. 1, 2034-35	Jul. 1, 2025	4	27,690
							141,740
Vater & Wastewater Revenue Ref.	Nov. 3, 2016	(29c)	Serial-Rfdg.	Oct. 1, 2018-28		5	135,635
Bonds, Series 2016				Oct. 1, 2018-34		3	7,135
				Oct. 1, 2031-35	Oct. 1, 2026	4	28,510
				Oct. 1, 2035	0+ 4 2022	3-1/8 5	6,110
				Oct. 1, 2029-30	Oct. 1, 2026	5	13,680 191,070
Vater & Wastewater Revenue	Apr. 13, 2017	(29c)	Serial-Rfdg.	Oct. 1, 2018-19		5	40,000
Bonds, Series 2017A			3	Oct. 1, 2032-37	Oct. 1, 2027	5	48,770
			Term	Oct. 1, 2038-52	Oct. 1, 2027	5	141,945
				Oct. 1, 2048-52	Oct. 1, 2027	5-1/4	49,150 279,865

Title	Date of Bonds	Legal Counsel & Nature	Bond Type	Maturity Date	Call Date	Interest Rate %	Amount Outstanding
Revenue Bonds - Philadelphia Gas Gas Works Revenue Bonds Var. Rate, 5th Series A-2	Works Bonds: Oct. 19, 2004	(6c)	Term-Var.	Sep. 1, 2034	Sep. 1, 2005	N.A.	30,000
Gas Works Revenue Bonds 7th Series	15-May-07	(12c)	Serial	Oct. 1, 2017 Oct. 1, 2018-28	Oct. 1, 2017	5 5	8,725 7,345 16,070
Gas Works Revenue Ref. Bonds 8th Series A	Aug. 20, 2009	(9c)	Serial	Aug. 1, 2017		5-1/4	7,840 7,840
Gas Works Revenue Bonds 8th Series B, C, D & E	Aug. 20, 2009 Aug. 20, 2009 Aug. 20, 2009 Aug. 20, 2009	(9c) (9c) (9c) (9c)	Term-Var. Term-Var. Term-Var. Term-Var.	Aug. 1, 2017-28 Aug. 1, 2017-28 Aug. 1, 2017-28 Aug. 1, 2017-28	Feb. 1, 2010 Feb. 1, 2010 Feb. 1, 2010 Feb. 1, 2010	N.A. N.A. N.A. N.A.	27,370 27,225 40,845 27,370 225,520
Gas Works Revenue Bonds 9th Series	Aug. 26, 2010	(9c)	Serial	Aug. 1, 2017-20 Aug. 1, 2018 Aug. 1, 2021 Aug. 1, 2022 Aug. 1, 2023-24 Aug. 1, 2031-40	Aug. 1, 2020 Aug. 1, 2020 Aug. 1, 2020 Aug. 1, 2020	5 3-1/2 4 5 4-1/4 5-1/4	8,335 2,445 3,945 4,105 6,310 42,720 67,860
Gas Works Revenue Ref. Bonds 10th Series	Sep. 28, 2011	(9c)	Serial-Rfdg.	Jul.1, 2017 Jul.1, 2018 Jul.1, 2019 Jul.1, 2019-20 Jul.1, 2021 Jul.1, 2021 Jul.1, 2022-23 Jul.1, 2024 Jul.1, 2025 Jul.1, 2026	Jul. 1, 2021 Jul. 1, 2021 Jul. 1, 2021 Jul. 1, 2021	4 5 4 5 3-1/4 4 5 5 4 4-1/8 4-1/4	5,895 5,385 750 8,575 1,415 2,470 6,000 2,100 1,445 1,320 35,355
Gas Works Revenue Ref. Bonds 13th Series	Aug. 18, 2015	(27c)	Serial-Rfdg.	Aug. 1, 2017-18 Aug. 1, 2019-25 Aug. 1, 2026-34	Aug. 1, 2015	4 5	35,345 121,520 88,605 245,470
Gas Works Revenue Ref. Bonds 14th Series	Aug. 30, 2016	(27c)	Serial-Rfdg.	Aug. 1, 2017-26 Aug. 1, 2027-35 Aug. 1, 2036-37	Oct. 1, 2026 Oct. 1, 2026	5 5 4	171,555 117,405 20,485 309,445
							834,850

Title	Date of Bonds	Legal Counsel & Nature	Bond Type	Maturity Date	Call Date	Interest Rate %	Amount Outstanding
Revenue Bonds - Airport Bonds: Airport Revenue Bonds Series 1998B	Jul. 1, 1998	(2c)	Term	Jul. 1, 202628	Jul. 1, 2010	5-1/8	5
Airport Revenue Refunding Bonds Series 2005C	Jun. 2, 2005	(8c)	Term-Var. Rfdg.	Jun. 15, 2018-25		N.A.	110,700
Airport Revenue Bonds Series 2007A	Aug. 16, 2007	(13c)	Serial Term	Jun. 15, 2018-21 Jun. 15, 2022-23 Jun. 15, 2024-25 Jun. 15, 2026-27 Jun. 15, 2028-32 Jun. 15, 2033-37	Jun. 15, 2018 Jun. 15, 2018 Jun. 15, 2018 Jun. 15, 2018 Jun. 15, 2018 Jun. 15, 2018	5 5 5 5 5 5 5	19,135 11,060 12,195 13,445 39,950 50,995 146,780
Airport Revenue Refunding Bonds Series 2007B	Aug. 16, 2007	(13c)	Serial Term	Jun. 15, 2018-19 Jun. 15, 2020-21 Jun. 15, 2022-23 Jun. 15, 2024-25 Jun. 15, 2026-27	Jun. 15, 2018 Jun. 15, 2018 Jun. 15, 2018 Jun. 15, 2018 Jun. 15, 2018	5 5 5 5 5	7,625 8,405 9,270 10,220 11,265 46,785
Airport Revenue Refunding Bonds Series 2009A	Apr. 14, 2009	(4c)	Serial Rfdg.	Jun. 15, 2018 Jun. 15, 2019 Jun. 15, 2020 Jun. 15, 2021 Jun. 15, 2022 Jun. 15, 2023 Jun. 15, 2023-24 Jun. 15, 2025-29	Jun. 15, 2017 Jun. 15, 2017 Jun. 15, 2017 Jun. 15, 2017 Jun. 15, 2017	4 4-1/5 4-1/4 4-1/2 4-5/8 5 5 5-3/8	2,120 2,205 2,295 2,395 2,500 1,420 3,940 16,055
Airport Revenue Bonds Series 2010A	Nov. 15, 2010	(21c)	Serial Term	Jun. 15, 2018 Jun. 15, 2019 Jun. 15, 2019-20 Jun. 15, 2021 Jun. 15, 2021 Jun. 15, 2022 Jun. 15, 2022-25 Jun. 15, 2026-30 Jun. 15, 2026-30 Jun. 15, 2035 Jun. 15, 2031-35 Jun. 15, 2031-35 Jun. 15, 2036-40 Jun. 15, 2036-40	Jun. 15, 2020 Jun. 15, 2020	5 4 5 4 5 3-3/4 5 4 5-1/4 4-1/2 5 5 5	32,930 6,050 100 12,925 275 6,730 560 31,115 2,910 44,175 2,320 595 25,000 37,750 48,000 32,805
Airport Revenue Refunding Bonds Series 2010C	Nov. 15, 2010	(21c)	Serial Rfdg.	Jun. 15, 2018		5	<u>251,310</u> 8,995
Airport Revenue Refunding Bonds Series 2010D	Nov. 15, 2010	(21c)	Serial Rfdg.	Jun. 15, 2018-20 Jun. 15, 2020 Jun. 15, 2021 Jun. 15, 2022-24 Jun. 15, 2024 Jun. 15, 2025 Jun. 15, 2028	Jun. 15, 2020 Jun. 15, 2020 Jun. 15, 2020 Jun. 15, 2020 Jun. 15, 2020	5 4 5 5-1/4 4-1/2 5-1/4 5-1/4	52,420 630 19,475 64,310 310 23,830 24,780 185,755
Airport Revenue Refunding Bonds Series 2011A	Dec. 14, 2011	(21c)	Serial Rfdg.	Jun. 15, 2018-21 Jun. 15, 2022-27 Jun. 15, 2028	Jun. 15, 2021 Jun. 15, 2021	5 5 4-5/8	31,705 114,710 14,825 161,240

Title	Date of Bonds	Legal Counsel & Nature	Bond Type	Maturity Date	Call Date	Interest Rate %	Amount Outstanding
Airport Revenue Refunding Bonds Series 2011B	Dec. 14, 2011	(21c)	Serial Rfdg.	Jun. 15, 2018 Jun. 15, 2019 Jun. 15, 2020 Jun. 15, 2021 Jun. 15, 2022 Jun. 15, 2023 Jun. 15, 2024 Jun. 15, 2025 Jun. 15, 2026 Jun. 15, 2027 Jun. 15, 2028 Jun. 15, 2029 Jun. 15, 2030 Jun. 15, 2030	Jun. 15, 2021 Jun. 15, 2021	5 3 3-3/8 3-1/2 3-3/4 4 4-1/8 4-1/4 4-3/8 5 4-5/8 4-3/4 4-7/8 5	1,445 1,515 1,565 1,615 1,675 1,735 1,805 1,800 2,040 2,145 2,245 2,350 2,465
Airport Revenue Refunding Bonds Series 2015A	Sep. 3, 2015	(28c)	Serial Rfdg.	Jun. 15, 2018 Jun. 15, 2019-25 Jun. 15, 2026-35 Jun. 15, 2031-32	Jun. 15, 2025 Jun. 15, 2025	4 5 5 4	3,255 27,590 51,125 8,555 90,525
Airport Revenue Refunding Bonds Series 2017	Apr. 27, 2017	(28c)	Serial	Jul. 1, 2018-22		2-7/10	125,000
							1,186,465
	Total Rever	nue Bonds (Outstanding				4,018,231
		Total Bo	nded Debt Out	standing			5,449,936

NOTES:

Legal Opinion - Code symbols indicating Philadelphia law firms rendering opinions are analyzed as follows:

- 1 Joint Ballard, Spahr, Andrews & Ingersoll and Singley & Associates
- 2 Joint Saul, Ewing, Remick & Saul and Singley & Associates
- 3 Joint Ballard, Spahr, Andrews & Ingersoll and Ronald A. White
- 4 Joint Saul, Ewing, LLP and Andre C. Dasent
- 5 Duane, Morris, LLP and Ronald A. White
- 6 Joint Dilworth, Paxson and Jettie D. Newkirk
- 7 Joint Saul, Ewing and Booth & Tucker
- 8 Joint Saul, Ewing and Denise Joy Smyler
- 9 Joint Blank, Rome, LLP and Andre C. Dasent, P.C.
- 10 Joint Cozen, O'Connor and Booth & Tucker
- 11 Joint Saul, Ewing and Kelly, Monaco & Naples
- 12 Joint Ballard, Spahr, Andrews & Ingersoll and Andre C. Dasent, P.C.
- 13 Joint Saul, Ewing and TME Law
- 14 Joint Blank, Rome and Booth & Tucker
- 15 Joint Ballard, Spahr, Andrews & Ingersoll and Denise Joy Smyler
- 16 Cozen, O'Connor and TME Law
- 17 Joint Greenberg, Traurig and Gonzalez Saggio & Harlan
- 18 Ballard, Spahr, Andrews & Ingersoll
- 19 Joint Cozen O'Connor and Grant & Lebowitz
- 20 Joint Ballard, Spahr and Denise Joy Smyler
- 21 Joint Saul, Ewing and Gonzalez, Saggio & Harlan
- 22 Joint Ballard, Spahr and The Smyler Firm
- 23 Joint Cozen O'Connor and Ann C.Lebowitz
- 24 Joint Ballard, Spahr and Andre C. Dasent
- 25 Joint Cozen O'Connor and Ahmad Zaffarese
- 26 Joint Cozen O'Connor and Turner Law
- 27 Joint Eckert Seamans Cherin & Mellot, and Andre C. Dasent
- 28 Joint Saul, Ewing and Andre C, Dasent
- 29 Joint Ballard Spahr LLC and Ahmad Zaffarese LLC

Nature of Loan - Code symbols are analyzed as follows:

- c Councilmanic
- e Vote of People

Title	Insurer	Date of Bonds	Range of Maturities	Range of Interest Rates %	Principal Amount
General Obligation Bonds, Series 2007A	FSA	Dec. 20, 2007	Aug. 1, 2017-2019	5 to 5-1/4	57,075
General Obligation Bonds, Series 2008A	FSA	May 1, 2008	Dec. 15, 2017-2032	5 to 5-1/4	17,825
General Obligation Bonds, Series 2009A	Assured Guaranty	Aug. 13, 2009	Aug. 1, 2019-2031	4-1/4 to 5-1/2	215,210
General Obligation Bonds, Series 2009A General Obligation Bonds, Series 2009B	Uninsured	Aug. 13, 2009 Aug. 13, 2009	Aug. 1, 2019-2031 Aug. 1, 2027-2031	Variable	100,000
	Assured Guaranty	Aug. 13, 2009 Apr. 19, 2011	Aug. 1, 2027-2031 Aug. 1, 2017-2041	3-1/4 to 5-1/4	19,905
General Obligation Bonds, Series 2011			•		
General Obligation Bonds, Series 2011	Uninsured	Apr. 19, 2011	Aug. 1, 2017-2041	3-1/4 to 6-1/2	80,760
General Obligation Bonds, Series 2012A	Uninsured	May 8, 2012	Sep. 15, 2019-2021	5	19,925
General Obligation Bonds, Series 2013A	Assured Guaranty	Jul. 30, 2013	Jul. 15, 2024-2025	4-1/8 to 4-1/4	9,775
General Obligation Bonds, Series 2013A	Uninsured	Jul. 30, 2013	Jul. 15, 2017-2033	4-1/8 to 5-1/4	172,570
General Obligation Bonds, Series 2014A	Uninsured	Feb. 6, 2014	Jul. 15, 2017-2038	3 to 5-1/4	151,220
General Obligation Bonds, Series 2015A	Uninsured	Jul. 8, 2015	Aug. 1, 2017-2031	4 to 5	138,795
General Obligation Bonds, Series 2015B	Uninsured	Sep. 30, 2015	Aug. 1, 2017-2035	2 to 5	185,780
General Obligation Bonds, Series 2017	Assured Guaranty	Feb. 2, 2017	Aug. 1, 2025-2039	4 to 5	105,965
General Obligation Bonds, Series 2017	Uninsured	Feb. 2, 2017	Aug. 1, 2018-2041	4 to 5	156,900
			General Obligation Bonds	Outstanding	1,431,705
Water and Wastewater Revenue Bonds, Series 1997B	AMBAC	Nov. 25, 1997	Aug. 1, 2017-2027	Variable	53,200
Water and Wastewater Revenue Bonds, Series 1999A	Uninsured	Apr. 22, 1999	Jul. 1, 2017 - Apr. 1, 2019	2-7/10	162
Water and Wastewater Revenue Bonds, Series 2005B	Uninsured	May 4, 2005	Aug. 1, 2017-2018	Variable	18,180
Water and Wastewater Revenue Bonds, Series 2007A	AMBAC	May 9, 2007	Aug. 1, 2017-2027	4-1/2 to 5	9,925
Water and Wastewater Revenue Bonds, Series 2007B	AMBAC	May 9, 2007	Nov. 1, 2017 to 2031	4 to 5	151,455
Water and Wastewater Revenue Bonds, Series 2009A	Uninsured	May 21, 2009	Jan. 1, 2018-2036	4 to 5-3/4	8,980
Water and Wastewater Revenue Bonds, Series 2009B	Uninsured	Apr. 20, 2009	Jul. 1, 2017-2033	1-2/10	19,298
Water and Wastewater Revenue Bonds, Series 2009C	Uninsured	Apr. 20, 2009	Jul. 1, 2017-2033	1-2/10	35,668
Water and Wastewater Revenue Bonds, Series 2009D				1-2/10	55,985
	Uninsured	Apr. 20, 2009	Jul. 1, 2017-2033		
Water and Wastewater Revenue Bonds, Series 2010B	Uninsured	Apr. 20, 2009	Jul. 1, 2017-2033	1-2/10	23,683
Water and Wastewater Revenue Bonds, Series 2010A	Uninsured	Apr. 15, 2010	Jun. 15, 2018-2019	3 to 5	31,185
Water and Wastewater Revenue Bonds, Series 2010A	Assured Guaranty	Apr. 15, 2010	Jun. 15, 2018-2019	3 to 5	38,695
Water and Wastewater Revenue Bonds, Series 2010C	Assured Guaranty	Aug. 5, 2010	Aug. 1, 2017-2040	3 to 5	134,005
Water and Wastewater Revenue Bonds, Series 2011A	Uninsured	Nov. 16, 2011	Jan. 1, 2036-2041	4-1/2 to 5	135,000
Water and Wastewater Revenue Bonds, Series 2011B	Uninsured	Nov. 16, 2011	Nov. 1, 2017-2026	4 to 5	44,220
Water and Wastewater Revenue Bonds, Series 2012	Uninsured	Nov. 1, 2012	Nov. 1, 2025-2028	5	65,005
Water and Wastewater Revenue Bonds, Series 2013A	Uninsured	Aug. 22, 2013	Jan. 1, 2018-2043	4 to 5-1/4	166,575
Water and Wastewater Revenue Bonds, Series 2014	Uninsured	Jan. 23, 2014	Jul. 1, 2017-2027	3 to 5	117,200
Water and Wastewater Revenue Bonds, Series 2015A	Uninsured	Apr. 16, 2015	Jul. 1, 2036-2045	5	275,820
Water and Wastewater Revenue Bonds, Series 2015B	Uninsured	Apr. 16, 2015	Jul. 1, 2019-2035	4 to 5	141,740
Water and Wastewater Revenue Bonds, Series 2016	Uninsured	Nov. 3, 2016	Oct. 1, 2018-2035	3 to 5	191,070
Water and Wastewater Revenue Bonds, Series 2017A	Uninsured	Apr. 13, 2017	Oct. 1, 2018-2052	5 to 5-1/4	279,865
Gas Works Revenue Bonds, Fifth Series A-2	Uninsured	Oct. 19, 2004	Sep. 1, 2034	Variable	30,000
Gas Works Revenue Bonds, Seventh Series	AMBAC	May 15, 2007	Oct. 1, 2017-2037	5	16,070
Gas Works Revenue Bonds, Eighth Series A	Uninsured	Aug. 20, 2009	Aug. 1, 2017	5 to 5-1/4	7,840
Gas Works Revenue Bonds, Eighth Series B	Uninsured	Aug. 20, 2009	Aug. 1, 2017-2028	Variable	27,370
Gas Works Revenue Bonds, Eighth Series C	Uninsured	Aug. 20, 2009	Aug. 1, 2017-2028	Variable	27,225
Gas Works Revenue Bonds, Eighth Series D	Uninsured	Aug. 20, 2009	Aug. 1, 2017-2028	Variable	40,845
Gas Works Revenue Bonds, Eighth Series E	Uninsured	Aug. 20, 2009	Aug. 1, 2017-2028	Variable	27,370
Gas Works Revenue Bonds, Ninth Series	Uninsured	Aug. 26, 2010	Aug. 1, 2017-2040	3 to 5-1/4	32,220
Gas Works Revenue Bonds, Ninth Series	Assured Guaranty	Aug. 26, 2010	Aug. 1, 2017-2040	3 to 5-1/4	35,640
Gas Works Revenue Bonds, Tenth Series	Assured Guaranty	Sep. 28, 2011	Jul. 1, 2017-2026	3-1/2 to 5	35,355
Gas Works Revenue Ref. Bonds, Thirteenth Series	Uninsured	Aug. 18, 2015	Aug. 1, 2017-2034	3 to 5	245,470
Gas Works Revenue Ref. Bonds, Fourteenth Series	Uninsured	Aug. 30, 2016	Oct. 1, 2017-2037	3 to 5	309,445
Airport Revenue Bonds, Series 1998B	FGIC	Jul. 1, 1998	Jun. 15, 2028	5-1/8	5
Airport Revenue Bonds, Series 2005C	MBIA	Jun. 2, 2005	Jun. 15, 2018-2025	Variable	110,700
Airport Revenue Bonds, Series 2007A	FSA	Aug. 16, 2007	Jun. 15, 2018-2037	5	146,780
Airport Revenue Bonds, Series 2007A	FSA	Aug. 16, 2007 Aug. 16, 2007	Jun. 15, 2018-2027	5	46,785
Airport Revenue Bonds, Series 2007B	Assured Guaranty	Apr. 14, 2009	Jun. 15, 2018-2029	4 to 5-3/8	32,930
Airport Revenue Bonds, Series 2009A Airport Revenue Bonds, Series 2010A	Uninsured	Nov. 15, 2010	Jun. 15, 2018-2040	3-3/4 to 5-1/4	165,500
Airport Revenue Bonds, Series 2010A Airport Revenue Bonds, Series 2010A					
Airport Revenue Bonds, Series 2010A Airport Revenue Bonds, Series 2010C	Assured Guaranty	Nov. 15, 2010	Jun. 15, 2018-2040	3-3/4 to 5-1/4	85,810
Airport Revenue Bonds, Series 2010C Airport Revenue Bonds, Series 2010D	Uninsured Uninsured	Nov. 15, 2010	Jun. 15, 2018-2018	5 4 to 5-1/4	8,995
·		Nov. 15, 2010	Jun. 15, 2018-2028		184,815
Airport Revenue Bonds, Series 2010D	Assured Guaranty	Nov. 15, 2010	Jun. 15, 2020-2024	4 to 4-1/2	940

Title	Insurer	Date of Bonds	Range of Maturities	Range of Interest Rates %	Principal Amount
Airport Revenue Bonds, Series 2011A	Uninsured	Dec. 14, 2011	Jun. 15, 2018-2028	4-5/8 to 5	161,240
Airport Revenue Bonds, Series 2011B	Uninsured	Dec. 14, 2011	Jun. 15, 2018-2031	3-3/4 to 5	26,440
Airport Revenue Bonds, Series 2015A	Uninsured	Sep. 3, 2015	Jun. 15, 2018-2035	4 to 5	90,525
Airport Revenue Bonds, Series 2017	Uninsured	Apr. 27, 2017	Jul. 1, 2018-2022	2-7/10	125,000
			Revenue Bonds Outsta	nding	4,018,231
			Total Bonds Outstandi	ng	5,449,936
			Summary		
		Insurer	<u>Principal</u>		
		AMBAC	230,6	50	
		Assured Guaranty	714,2	30	
		FGIC		5	
		FSA	268,4	65	
		MBIA	110,7	00	
		Uninsured	4,125,8	86_	
	Total Bor	nds Outstanding	5,449,9	36	

City of Philadelphia

Part B

Sinking Fund - General Obligation Bonds

Sinking Funds, Sinking Fund Reserves and Renewal Funds - Revenue Bonds

City of Philadelphia Sinking Funds - General Obligation Bonds Combining Balance Sheet June 30, 2017

Exhibit B-1

<u>Assets</u>	General Fund	Water Fund	Aviation Fund	Total
Investments Accrued Interest Receivable	355,277 233	<u>-</u>	<u>-</u>	355,277 233
Total Assets	355,510	<u> </u>		355,510
Fund Balance				
Reserved for: Debt Service Interest - Series 2009B	355,510			355,510
Total Fund Balance	355,510			355,510

City of Philadelphia Sinking Funds - General Obligation Bonds Combining Statement of Fund Balance Available for Debt Service June 30, 2017

Exhibit B-2

	General Fund	Water Fund	Aviation Fund	Total
Fund Balance - July 1, 2016	986,842			986,842
Additions:				
Interest Earnings	12,874	-	-	12,874
Appropriation Funding	137,714,458	-	-	137,714,458
Receipt of Bond Proceeds	262,865,000	-	-	262,865,000
Receipt of Bond Premium	30,077,256			30,077,256
<u>Total Additions</u>	430,669,588		<u> </u>	430,669,588
Deductions:				
Payment of Debt Service				
Interest	70,468,664	-	-	70,468,664
Principal	67,890,000	-	-	67,890,000
Issuance Expenses	2,180,148	-	-	2,180,148
Bond Defeasance	290,762,108			290,762,108
Total Deductions	431,300,920			431,300,920
Fund Balance - June 30, 2017	355,510			355,510

City of Philadelphia

Exhibit B-3

Sinking Funds - General Obligation Bonds Consolidated Statement of Cash Receipts and Disbursements

For The Period July 1, 2016 to June 30, 2017

	_	Bonds
Balance - July 1, 2016	_	986,842
Receipts:		
Appropriations - Bond Interest: General Fund Appropriations - Bond Principal:		69,824,458
General Fund Interest Earnings		67,890,000 12,641
Accrued Interest Receivable June 30, 2 Receipt of Bond Premium Maturity of Investments	2017	233 30,077,256
Issuance of Refunding Debt	<u>-</u>	262,865,000
	Total Receipts	430,669,588
<u>Disbursements:</u>		
Purchase of Investments Bond Maturities Interest on General Obligation Bonds Bond Issuance Expenses Bond Defeasance	_	67,890,000 70,468,664 2,180,148 290,762,108
	Total Disbursements	431,300,920
Balance - June 30, 2017	_	355,510

City of Philadelphia Sinking Funds, Sinking Fund Reserves and Renewal Funds - Revenue Bonds Balance Sheet June 30, 2017

		Water Fund			Aviation Fund	Fund		<u> </u>	Philadelphia Gas Works	orks
Assets	Sinking <u>Fund</u>	Sinking Fund Reserve	Total	Sinking <u>Fund</u>	Sinking Fund Reserve	Renewal <u>Fund</u>	Total	Sinking <u>Fund</u>	Sinking Fund Reserve	Total
Investments (Note 22) Accrued Interest Receivable Due from Other Funds	823,192 546	220,972,398 446,438	221,795,590 446,984	232,476	76,605,721 162,740	2,273,643 2,874 250,000	79,111,840 165,765 250,000	754 102	86,842,537 180,506	86,843,291 180,607
	823,738	221,418,836	222,242,574	232,628	76,768,461	2,526,516	79,527,605	855	87,023,043	87,023,898
Due to Other Funds	•	2,695,609	2,695,609	•	•					,
Fund Balance: Designated for Revenue Bond Interest (Note 3)	823,738	•	823,738	232,628	,	•	232,628	855		855
Designated for Maximum Debt Service (Note 1 & 2) Undesignated Fund Balance - Renewal Funds (Note 3)	1 1	218,723,227	218,723,227		76,768,461	2,526,516	76,768,461	' '	87,023,043	87,023,043
Total Fund Balance	823,738	218,723,227	219,546,965	232,628	76,768,461	2,526,516	79,527,605	855	87,023,043	87,023,898
Total Liabilities and Fund Balance	823,738	823,738 221,418,836	222,242,574	232,628	76,768,461	2,526,516	79,527,605	855	87,023,043	87,023,898

CITY OF PHILADELPHIA SINKING FUND RESERVES AND RENEWAL FUNDS - REVENUE BONDS STATEMENT OF INVESTMENTS

June 30, 2017							Amounts in USD
Type	Date of <u>Maturity</u>	Par Value	Interest Rate %	Purchase <u>Price</u>	Yield at <u>Market</u>	Market Value at <u>6/30/17</u>	Interest Accrued at <u>6/30/17</u>
Water Fund: Sinking Fund: Short-Term Investments: Short Term Investment Pools	•	823,192		823,192		823,192	546
Sinking Fund Reserve: Short-Term Investments:							
Short Term Investment Pools		546,144		546,144	99.0	546,144	222.00
Corporate Debt Instruments	11/13/2017	5,000,000		4,950,683	1.34	4,975,250	
Corporate Debt Instruments	01/26/2018	5,000,000		4,943,211	1.55	4,959,200	
Corporate Debt Instruments	10/02/2017	5,000,000		4,970,258	1.31	4,983,450	
Corporate Debt Instruments	10/13/2017	5,000,000		4,948,640	1.41	4,981,450	
Corporate Debt Instruments	08/01/2017	4,000,000		3,976,068	1.21	3,996,000	
Corporate Debt Instruments	10/02/2017	5,000,000		4,969,151	1.35	4,983,450	
Corporate Debt Instruments	08/03/2017	5,000,000		4,960,625	1.37	4,994,550	
Corporate Debt Instruments	12/28/2017	5,000,000		4,945,079	1.50	4,966,150	
Corporate Debt Instruments	03/15/2018	5,000,000		4,945,656	1.50	4,947,950	
Corporate Debt Instruments	05/03/2018	4,951,000	1.000	4,933,721	1.00	4,933,077	7,977
Corporate Debt Instruments	03/06/2018	5,000,000	1.305	5,002,705	1.31	4,996,950	20,844
Corporate Debt Instruments	10/06/2017	000,000,9	1.875	6,031,734	1.87	6,006,540	26,563
Corporate Debt Instruments	01/12/2018	000,000,9	1.600	6,013,140	1.60	6,003,300	45,067
Federal Agency Obligations	12/15/2017	14,800,000	1.000	14,838,290	1.00	14,788,752	6,578
Federal Agency Obligations	04/09/2018	11,400,000	0.750	11,409,234	0.75	11,357,250	19,475
Federal Agency Obligations	06/13/2018	10,000,000	4.875	10,732,600	4.72	10,336,800	24,375
Federal Agency Obligations	04/06/2018	20,000,000	0.700	19,985,200	0.70	19,923,400	9,722
Federal Agency Obligations	01/19/2018	12,250,000	0.750	12,238,340	0.75	12,218,150	41,344
Federal Agency Obligations	10/13/2017	7,400,000		7,364,861	0.97	7,377,800	
Total Short-Term Investments		142,347,144		142,705,340		142,275,613	202,165
Corporate Debt Instruments	02/28/2019	5,000,000	1.686	4,998,038	1.68	5,003,500	27,942
Federal Agency Obligations	10/01/2018	5,000,000	0.875	4,968,950	0.88	4,969,800	10,938
Federal Agency Obligations	03/18/2019	6,000,000	1.375	5,983,440	1.38	5,997,360	25,438
U.S. Government Securities	07/31/2018	12,500,000	0.750	12,428,656	0.75	12,426,750	39,106
U.S. Government Securities	10/31/2018	11,500,000	0.750	11,414,648	0.76	11,411,105	14,611
U.S. Government Securities	04/30/2019	15,000,000	1.250	14,974,805	1.25	14,963,100	31,762
U.S. Government Securities	09/30/2018	13,000,000	1.375	13,136,094	1.37	13,005,070	45,173
U.S. Government Securities	11/30/2018	1,400,000	1.375	1,405,359	1.38	1,400,434	1,674
U.S. Government Securities	02/28/2019	9,500,000	1.500	9,531,173	1.50	9,519,665	47,629
Total Long-Term Investments		78,900,000		78,841,163		78,696,784	244,272
Total Sinking Fund Reserve		221,247,144		221,546,503		220,972,397	446,437

CITY OF PHILADELPHIA SINKING FUND RESERVES AND RENEWAL FUNDS - REVENUE BONDS STATEMENT OF INVESTMENTS

Advisitor Fund: Sinking Tart from Investments Sinking Tart from In								Amounts in USD
Addition Furth. Subting Part Solving Bridge Ballet's Particular Violed at Methods (S20217) Short-Term Investments: Short-Term Investments Pools (S20217) Short-Term Investment Solvening Short-Term Investment Solvening Short-Term Investment Sho	June 30, 2017							ייי יייי
Standing Fund: Stand Fund: Stand Fund: Stand Team Investments: Short Team Investment Pools 1530,114 1,500,114	Tyde	Date of <u>Maturity</u>	Par Value	Interest Rate %	Purchase <u>Price</u>	Yield at <u>Market</u>	Market Value at <u>6/30/17</u>	Interest Accrued at <u>6/30/17</u>
Short Term Invastment Pools	Aviation Fund: Sinking Fund: Short-Term Investments:							
op Table Reserve: 1,530,114			232,476		232,476		232,476	152
Short Term Investment Bools U.S. Governments Securities Ordposte Debt Instruments Corporate Debt Instruments Ordposte Debt In	Aviation Fund: Sinking Fund Reserve: Short Term Investments:							
U.S. Government Securities 04/15/2018 77/80,000 - 77/20,038 0.75 77/30,038 0.75 77/30,235 Corporate Debt Instruments 0/22/2017 2,256,000 - 1,973,675 2.00 1,993,400 Corporate Debt Instruments 0/17/2017 1,350,000 - 1,973,675 2.00 1,396,400 Corporate Debt Instruments 0/17/2017 1,350,000 - 2,247,140 0.89 2,248,380 Corporate Debt Instruments 0/17/2017 1,350,000 - 2,226,471 1,36 1,345,440 Corporate Debt Instruments 0/17/2017 2,000,000 - 2,226,471 1,46 2,228,441 Corporate Debt Instruments 0/17/2017 2,000,000 - 1,246,538 1,17 1,346,538 Corporate Debt Instruments 0/17/2017 2,000,000 - 1,968,472 1,13 1,346,538 Corporate Debt Instruments 0/17/2017 2,000,000 - 1,966,472 1,13 1,346,538 Corporate Debt Instruments 0/17/2017 2,000,000 - 1,966,472 1,0 1,346,538 Corporate Debt Instrumen	Short Term Investment Pools		1,530,114		1,530,114		1,530,114	,
Coporate Det Instruments 07/24/20/17 2,250,000 - 2,247,140 0.89 2,243,380 Coporate Det Instruments 07/22/20/18 2,000,000 - 1,378,375 2.00 1,398,400 Coporate Det Instruments 01/02/20/17 1,550,000 - 1,342,431 1,146,544 Coporate Det Instruments 07/06/20/17 500,000 - 2,48,425 1,01 599,180 Coporate Det Instruments 07/06/20/17 500,000 - 2,246,471 1,146,544 Coporate Det Instruments 07/06/20/17 1,550,000 - 1,246,528 1,17 1,446,544 Coporate Det Instruments 07/07/12/07/17 2,000,000 - 1,246,528 1,17 1,146,544 Coporate Det Instruments 07/07/12/07/17 2,000,000 - 1,986,476 0,55 1,196,406 Coporate Det Instruments 07/07/12/07/17 2,000,000 - 1,986,476 0,50 1,196,528 Coporate Det Instruments 07/07/07/17 2,000,000 1,500,000 1,750 450,400 </td <td>U.S. Government Securities</td> <td>04/15/2018</td> <td>7,750,000</td> <td>0.750</td> <td>7,720,938</td> <td>0.75</td> <td>7,718,225</td> <td>12,069</td>	U.S. Government Securities	04/15/2018	7,750,000	0.750	7,720,938	0.75	7,718,225	12,069
Corporate Deth Instruments 02/28/2018 2,000,000 - 1,347,3475 2,00 1,346,400 Corporate Deth Instruments 107/10/2017 1,350,000 - 1,342,431 1,345,140 Corporate Deth Instruments 09/13/2017 1,350,000 - 5,424,42 1,39 1,345,140 Corporate Deth Instruments 09/10/2017 2,250,000 - 5,226,471 1,46 2,228,040 Corporate Deth Instruments 02/27/2018 2,250,000 - 1,346,338 1,399,440 Corporate Deth Instruments 03/02/2018 900,000 - 1,346,328 1,399,440 Corporate Deth Instruments 03/02/2018 2,200,000 - 1,446,328 1,17 1,346,538 Corporate Deth Instruments 03/11/2017 2,000,000 - 1,446,328 1,139,440 Corporate Deth Instruments 03/12/2018 450,000 1,700 1,496,258 1,139,544 Corporate Deth Instruments 05/12/2018 450,000 1,500 4,135,542 1,13 1,135,572 Corporate Deth Instruments 05/12/2018 2,253,000 1,500 1,144,022	Corporate Debt Instruments	07/24/2017	2,250,000		2,247,140	0.89	2,248,380	1
Corporate Debt Instruments 10/1/20/17 1,350,000 - 1,346,344 1,346,344 Corporate Debt Instruments 10/0/20/17 1,350,000 - 6,44,42 1,39 1,346,344 Corporate Debt Instruments 10/0/20/17 2,250,000 - 2,254,41 1,346,544 Corporate Debt Instruments 02/27/20/18 2,250,000 - 1,246,326 1,17 1,246,538 Corporate Debt Instruments 03/0/20/17 2,000,000 - 1,246,326 1,17 1,246,538 Corporate Debt Instruments 03/0/20/17 2,000,000 - 1,246,326 1,17 1,246,538 Corporate Debt Instruments 03/0/20/17 2,000,000 - 1,946,520 1,09 39,440 Corporate Debt Instruments 03/0/20/17 2,000,000 - 1,546,222 1,00 39,440 Corporate Debt Instruments 03/0/20/17 2,000,000 - 1,546,222 1,00 39,440 Corporate Debt Instruments 03/0/20/18 450,000 1,700 452,038 1,15 792,71,28 Corporate Debt Instruments 03/0/20/18 1,250,000 1,	Corporate Debt Instruments	02/28/2018	2,000,000		1,973,675	2.00	1,980,400	1
Corporate Debt Instruments 10919/2017 1,200,000 - 1,981,42 1,30 5,481,48	Corporate Debt Instruments	10/10/2017	1,350,000		1,336,334	1.39	1,345,140	•
Corporate Debt instruments 07/06/2017 900,000 - 226,471 1,45 228,040 Corporate Debt instruments 09/19/2021 2,250,000 - 1,246,336 1,17 1,246,538 Corporate Debt instruments 09/19/2071 2,000,000 - 1,398,277 0.95 1,999,440 Corporate Debt instruments 09/19/2071 2,000,000 - 1,996,416 0.99 1,999,440 Corporate Debt instruments 09/19/2071 2,000,000 - 1,996,416 0.99 1,999,440 Corporate Debt instruments 09/19/2071 2,000,000 1,500 42,039 1,70 450,585 Corporate Debt instruments 09/19/2071 2,000,000 1,500 42,039 1,70 42,038 Corporate Debt instruments 05/29/2018 2,000,000 1,500 42,039 1,70 43,0585 Corporate Debt instruments 0,11/20/2018 1,200,000 1,500 1,206,309 1,70 42,039 1,70 42,044 Corporate Debt instruments 0,11/20/2018	Corporate Debt Instruments	10/02/2017	550,000		548,142	1.30	548,180	
Corporate Debt Instruments 02/27/2018 2,255,000 - 2,226,471 1,46 2,228,040 Corporate Debt Instruments 09/14/2077 1,250,000 - 1,246,538 1,17 1,246,538 Corporate Debt Instruments 07/14/2077 2,000,000 - 1,996,446 0,93 1,996,440 Corporate Debt Instruments 09/07/2017 2,000,000 - 1,996,446 0,93 1,996,420 Corporate Debt Instruments 09/07/2017 2,000,000 - 1,996,446 0,93 1,996,440 Corporate Debt Instruments 09/07/2018 450,000 1,700 420,032 1,700 2,144,022 1,00 2,145,032 Corporate Debt Instruments 05/24/2018 650,000 1,550 651,339 1,75 450,436 Corporate Debt Instruments 07/14/2018 2,240,000 1,206,000 1,206,000 1,206,000 1,700 420,538 Corporate Debt Instruments 07/14/2018 1,500,000 1,506,000 1,700 42,40,538 1,70 1,206,016	Corporate Debt Instruments	07/06/2017	000'006		898,975	1.01	899,910	•
Corporate Debt Instruments 09/19/2017 1,250,000 - 1,246,326 1,17 1,246,538 Corporate Debt Instruments 03/20/2017 2,000,000 - 1,996,477 0,95 1,996,440 Corporate Debt Instruments 03/07/2017 2,000,000 - 1,996,416 0,93 1,996,520 Corporate Debt Instruments 05/03/2018 2,200,000 1,000 2,194,022 1,00 2,194,022 Corporate Debt Instruments 05/03/2018 2,200,000 1,500 45,039 1,70 450,585 Corporate Debt Instruments 06/25/2018 2,200,000 1,500 2,241,120 1,00 2,194,022 Corporate Debt Instruments 08/15/2018 2,000 1,500 1,20 1,248,389 1,17 2,264,43 Corporate Debt Instruments 11/16/2018 2,230,000 1,500 1,206,000 1,70 1,248,880 1,172,009 Corporate Debt Instruments 11/16/2018 1,200,000 1,500 1,206,000 1,70 1,248,880 1,172,009 Corporate Debt I	Corporate Debt Instruments	02/27/2018	2,250,000		2,226,471	1.45	2,228,040	•
Corporate Debt Instruments 07/11/2017 2,000,000 - 1,998,470 1,999,440 Corporate Debt Instruments 03/02/2018 2,000,000 - 1,940,222 1,34 891,108 Corporate Debt Instruments 05/02/2018 2,200,000 1,000 2,194,022 1,00 2,195,036 Corporate Debt Instruments 05/02/2018 650,000 1,700 2,194,022 1,70 2,192,036 Corporate Debt Instruments 05/25/2018 650,000 1,70 2,194,022 1,70 2,192,036 Corporate Debt Instruments 06/25/2018 800,000 1,150 799,904 1,15 797,128 Corporate Debt Instruments 11/03/2018 800,000 1,150 799,904 1,15 797,128 Corporate Debt Instruments 11/03/2018 1,200,000 1,200 2,247,120 1,30 2,246,423 Corporate Debt Instruments 02/28/2019 850,000 1,600 1,400,498 1,77 1,023,571 Corporate Debt Instruments 02/28/2019 1,600,000 2,200 <td< td=""><td></td><td>09/19/2017</td><td>1,250,000</td><td></td><td>1,246,326</td><td>1.17</td><td>1,246,538</td><td>•</td></td<>		09/19/2017	1,250,000		1,246,326	1.17	1,246,538	•
1900,000 - 891,256 1.34 891,108 0.907/2017 2.000,000 - 1,996,416 0.93 1,996,520 0.907/2018 2.200,000 1.000 2,194,022 1.00 2,192,036 0.919/2018 450,000 1.700 452,039 1.75 450,416 0.9179/2018 650,000 1.750 651,339 1.55 650,416 1.103/2018 2.250,000 1.360 1.30 2,247,120 1.30 2,246,423 1.116/2018 1.250,000 1.30 1.205,808 1.78 1,203,672 1.116/2018 1.350,000 1.360 1.38 1.175 0.246,433 1.116/2018 1.160,000 2.400 1.174,222 2.38 1.172,099 0.228/2019 850,000 1.750 1.004,960 1.75 1.001,550 1.116/2018 1.200,000 1.750 1.004,960 1.75 1.001,550 1.116/2018 1.200,000 2.200 2.218,320 1.38 1.25,741 0.1174/2019 850,000 2.200 2.218,320 1.38 1.25,74,83 0.1722/2019 1.200,000 1.375 1.5772,109 1.38 1.575,483 0.1722/2019 1.200,000 1.375 1.5772,109 1.38 1.575,483 0.1722/2019 1.200,000 1.375 1.5772,109 1.38 1.575,483 0.1722/2019 1.300,000 1.375 1.5772,109 1.38 1.575,483 0.1722/2019 1.300,000 1.375 1.5772,109 1.38 1.575,483 0.1722/2019 1.300,000 1.375 1.5772,109 1.38 1.575,483 0.1722/2019 1.300,000 1.375 1.5772,109 1.38 1.575,483 0.1722/2019 1.300,000 1.375 1.2772,109 1.38 1.375,74,48 0.1722/2019 1.200,000 1.375 1.2772,109 1.38 1.375,74,48 0.1722/2019 1.300,000 1.375 1.273,109 1.38 1.375,144 0.1722/2019 1.300,000 1.375 1.375,143,146 0.1722/2019 1.300,000 1.375 1.375,143,146 0.1722/2019 1.300,000 1.375 1.375,143,146 0.1722/2019 1.300,000 1.375 1.375,143,146 0.1722/2019 1.300,000 1.375 1.375,143,146 0.1722/2019 1.300,000 1.375 1.375,143,146 0.1722/2019 1.300,000 1.375 1.375,143,146 0.1722/2019 1.300,000 1.375 1.375,143,146 0.1722/2019 1.300,000 1.375 1.375,143,146 0.1722/2019 1.300,000 1.375 1.375,143,146 0.1722/2019 1.300,000		07/11/2017	2,000,000		1,998,277	0.95	1,999,440	1
10,000,000	Corporate Debt Instruments	03/02/2018	000'006		891,256	1.34	891,108	1
05/03/2018 2,200,000 1,000 2,194,022 1,00 2,192,036 03/19/2018 450,000 1,700 452,039 1,70 450,885 08/19/2018 650,000 1,550 651,339 1,55 650,416 08/15/2018 800,000 1,150 799,904 1,15 797,128 11/10/2018 1,200,000 1,30 2,247,120 1,30 2,246,423 11/10/2018 1,200,000 1,790 1,205,808 1,78 1,203,672 11/10/2018 1,350,000 1,30 1,348,880 1,80 1,352,741 02/28/2019 850,000 1,348,880 1,80 1,352,741 03/15/2019 1,000,000 1,750 1,74,222 2,38 1,172,099 05/24/2019 1,000,000 1,750 1,749,813 1,75 1,48,545 07/23/2018 1,000,000 1,750 1,249,813 1,25 1,001,650 11/14/2019 850,000 2,250 855,270 2,24 855,432	Corporate Debt Instruments	09/07/2017	2,000,000		1,996,416	0.93	1,996,520	•
nents 29,380,114 29,253,894 1.76 450,585 nents 29,380,114 29,253,894 1.55 650,416 08/15/2018 800,000 1.150 799,904 1.15 797,128 11/03/2018 2,250,000 1.300 2,247,120 1.30 2,246,423 11/16/2018 1,550,000 1.300 1,204,608 1.78 1,203,672 11/128/2018 1,550,000 1.886 850,000 1,686 850,000 1,68 02/28/2019 1,160,000 2,400 1,174,222 2,38 1,172,099 05/24/2019 1,160,000 2,400 1,174,222 2,38 1,172,099 05/24/2019 1,160,000 2,400 1,750 749,843 1,78 1,001,650 07/23/2018 1,000,000 1,750 1,004,960 1,75 1,004,960 1,75 1,004,960 1,75 1,004,960 1,75 1,004,960 1,75 1,004,960 1,75 1,004,060 1,004,060 1,205,07 1,004,060 1,205,07	Corporate Debt Instruments	05/03/2018	2,200,000	1.000	2,194,022	1.00	2,192,036	3,483
nentis 29,253,894 1.55 650,416 08/15/2018 29,380,114 29,253,894 1.55 650,416 11/03/2018 800,000 1.150 799,904 1.15 797,128 11/16/2018 2,250,000 1.30 2,246,423 1.203,672 11/18/2018 1,200,000 1.790 1,205,808 1.78 1,203,672 02/28/2019 850,000 1.80 1,348,880 1.88 1,203,672 02/28/2019 850,000 1.86 850,000 1.68 850,595 03/15/2019 1,160,000 2,400 1,174,222 2.38 1,172,099 05/24/2019 1,600,000 1,750 749,813 1.75 748,545 07/23/2018 1,000,000 1,750 749,813 1,75 1,001,650 11/15/2018 2,200,000 2,218,320 1.99 2,214,124 01/12/2019 1,200,000 2,218,320 1.99 2,24 855,432 01/12/2019 1,200,000 1,355 1,207,003	Corporate Debt Instruments	03/19/2018	450,000	1.700	452,039	1.70	450,585	2,146
Dentity 29,380,114 29,253,894 29,253,894 29,271,575 08/15/2018 800,000 1.150 799,904 1.15 797,128 11/03/2018 2,250,000 1.300 2,247,120 1.30 2,246,423 11/16/2018 1,200,000 1.790 1,205,808 1.78 1,203,672 11/16/2018 1,350,000 1.800 1,348,880 1.80 1,352,741 02/28/2019 850,000 1.686 850,000 1.68 850,595 03/15/2019 1,160,000 2,400 1,174,222 2,38 1,172,099 05/24/2019 750,000 1,50 74,9813 1.75 748,545 07/23/2018 1,000,000 2,20 2,240,860 1,75 1,004,960 1.75 1,004,960 1,75 1,44,124 01/24/2019 1,200,000 2,250 855,270 2.24 855,432 01/24/2019 1,200,000 1,350 1,205,388 1,34 1,574,883 02/28/2019 18,000,000 1,375 <td>Corporate Debt Instruments</td> <td>05/25/2018</td> <td>650,000</td> <td>1.550</td> <td>651,339</td> <td>1.55</td> <td>650,416</td> <td>086</td>	Corporate Debt Instruments	05/25/2018	650,000	1.550	651,339	1.55	650,416	086
08/15/2018 800,000 1.150 799,904 1.15 797,128 11/03/2018 2,250,000 1.300 2,247,120 1.30 2,246,423 11/16/2018 1,200,000 1.790 1,205,808 1.78 1,203,672 11/128/2018 1,350,000 1.800 1,348,880 1.80 1,352,741 02/28/2019 850,000 1.686 850,000 1.68 850,595 03/15/2019 1,160,000 2,400 1,174,222 2.38 1,172,099 05/24/2019 750,000 1,250 749,813 1.75 748,545 07/23/2018 1,000,000 1,750 1,004,960 1.75 1,004,560 11/15/2018 2,200,000 2,250 855,270 2.24 855,432 01/22/2019 15,000,000 2,250 855,270 2.24 855,432 01/22/2019 15,000,000 1.375 15,772,109 1.38 15,754,883 02/28/2019 18,000,000 1.125 17,917,031 1.13 17,931,780 </td <td>Total Short-Term Investments</td> <td></td> <td>29,380,114</td> <td></td> <td>29,253,894</td> <td>l</td> <td>29,271,575</td> <td>18,678</td>	Total Short-Term Investments		29,380,114		29,253,894	l	29,271,575	18,678
11/03/2018 2,250,000 1,300 2,247,120 1.30 2,246,423 11/16/2018 1,200,000 1,790 1,205,808 1.78 1,203,672 11/128/2018 1,350,000 1.800 1,348,880 1.80 1,352,741 02/28/2019 850,000 1.686 850,000 1.68 850,595 03/15/2019 1,160,000 2.400 1,174,222 2.38 1,172,099 05/24/2019 750,000 1.750 1,004,960 1.75 748,545 07/23/2018 1,000,000 1.750 1,004,960 1.75 1,001,650 11/15/2018 2,200,000 2.20 855,270 1.99 2,214,124 01/14/2019 850,000 2.250 855,270 1.99 2,244,124 01/22/2019 1,200,000 1.375 1,205,388 1.94 1,205,076 11/30/2018 15,750,000 1.375 17,917,031 1.13 17,931,780 102/28/2019 47,360,000 1.125 17,917,031 1.13 17,	Corporate Debt Instruments	08/15/2018	800,000	1.150	799,904	1.15	797,128	3,450
11/16/2018 1,200,000 1.790 1,205,808 1.78 1,203,672 11/28/2018 1,350,000 1.800 1,348,880 1.80 1,352,741 02/28/2019 850,000 1.686 850,000 1.68 850,595 03/15/2019 1,160,000 2.400 1,174,222 2.38 1,172,099 05/24/2019 750,000 1.750 749,813 1.75 748,545 07/23/2018 1,000,000 1.750 1,004,960 1.75 1,001,650 11/15/2018 2,200,000 2.200 2.218,320 1.99 2,244,124 01/14/2019 865,000 2.25 865,270 2.24 885,432 01/22/2019 1,200,000 1.375 1,205,388 1.94 1,205,076 11/30/2018 15,750,000 1.375 15,772,109 1.38 15,754,883 02/28/2019 18,000,000 1.125 17,917,031 1.13 17,931,780 A7,360,000 A7,348,824 A7,334,146	Corporate Debt Instruments	11/03/2018	2,250,000	1.300	2,247,120	1.30	2,246,423	4,631
11/28/2018 1,350,000 1.800 1,348,880 1.80 1,352,741 02/28/2019 850,000 1.686 850,000 1.68 850,595 03/15/2019 1,160,000 2.400 1,174,222 2.38 1,172,099 05/24/2019 750,000 1.750 749,813 1.75 748,545 07/23/2018 1,000,000 1.750 1,004,960 1.75 1,001,650 11/15/2018 2,200,000 2.00 2,218,320 1.99 2,214,124 01/14/2019 850,000 2.250 855,270 2.24 855,432 01/22/2019 1,200,000 1,356 1,205,388 1.94 1,205,076 11/30/2018 15,750,000 1,375 15,772,109 1.38 15,754,883 02/28/2019 18,000,000 1.125 17,917,031 1.13 17,931,780 Bearing 75,734,146 75,607,71 75,607,71 1.13 75,605,71	Corporate Debt Instruments	11/16/2018	1,200,000	1.790	1,205,808	1.78	1,203,672	2,625
02/28/2019 850,000 1.686 850,000 1.68 850,595 03/15/2019 1,160,000 2.400 1,174,222 2.38 1,172,099 05/24/2019 750,000 1.750 749,813 1.75 748,545 07/23/2018 1,000,000 1.750 1,004,960 1.75 1,001,650 11/15/2018 2,200,000 2.00 2,218,320 1.99 2,214,124 01/14/2019 850,000 2.250 855,270 2.24 855,432 01/22/2019 1,200,000 1,356 1,205,388 1,94 1,205,076 11/30/2018 15,750,000 1,375 15,772,109 1,38 15,754,883 02/28/2019 18,000,000 1,125 17,917,031 1,13 17,931,780 Bearing 47,360,000 47,348,824 75,602,71	Corporate Debt Instruments	11/28/2018	1,350,000	1.800	1,348,880	1.80	1,352,741	2,160
03/15/2019 1,160,000 2.400 1,174,222 2.38 1,172,099 05/24/2019 750,000 1.750 749,813 1.75 748,545 07/23/2018 1,000,000 1.750 1,004,960 1.75 1,001,650 11/15/2018 2,200,000 2.250 855,270 2.24 855,432 01/22/2019 1,200,000 1.950 1,205,388 1.94 1,205,076 11/30/2018 15,750,000 1.375 15,772,109 1.38 15,754,883 02/28/2019 18,000,000 1.125 17,917,031 1.13 17,931,780 Means 47,360,000 47,348,824 75,802,18 75,602,718	Corporate Debt Instruments	02/28/2019	850,000	1.686	850,000	1.68	850,595	4,658
05/24/2019 750,000 1.750 749,813 1.75 748,545 748,545 07/23/2018 1,000,000 1.750 1,004,960 1.75 1,001,650 1.01,650 1.1/15/2018 2,200,000 2.000 2,218,320 1.99 2,214,124 01/14/2019 850,000 2.250 855,270 2.24 855,432 01/22/2019 1,200,000 1.950 1,205,388 1.94 1,205,076 1.375 15,772,109 1.38 15,754,883 02/28/2019 18,000,000 1.125 17,917,031 1.13 17,931,780 Pagestra 47,360,000 47,348,824 47,348,824 47,348,824 77,360,000 1.125 1.2560,218 1.13 17,931,780 1.13 17,931,780 1.13 17,931,780 1.13 17,931,780 1.13 17,931,780 1.14 1.156 1.	Corporate Debt Instruments	03/15/2019	1,160,000	2.400	1,174,222	2.38	1,172,099	8,120
07/23/2018 1,000,000 1,750 1,004,960 1,75 1,001,650 1,01,650 1,115/2018 2,200,000 2,000 2,218,320 1,99 2,214,124 855,432 01/14/2019 1,200,000 1,950 1,205,388 1,94 1,205,076 1,130/2018 15,750,000 1,375 15,772,109 1,38 15,754,883 02/28/2019 18,000,000 1,125 17,917,031 1,13 17,931,780	Corporate Debt Instruments	05/24/2019	750,000	1.750	749,813	1.75	748,545	1,313
11/15/2018 2,200,000 2,000 2,218,320 1.99 2,214,124 01/14/2019 850,000 2,250 855,270 2.24 855,432 01/22/2019 1,200,000 1.950 1,205,388 1.94 1,205,076 11/30/2018 15,750,000 1.375 15,772,109 1.38 15,754,883 02/28/2019 18,000,000 1.125 17,917,031 1.13 17,931,780 PRODUKT 47,380,000 47,348,824 47,334,146	Corporate Debt Instruments	07/23/2018	1,000,000	1.750	1,004,960	1.75	1,001,650	7,632
01/14/2019 850,000 2.250 855,270 2.24 855,432 01/22/2019 1,200,000 1.950 1,205,388 1.94 1,205,076 11/30/2018 15,750,000 1.375 15,772,109 1.38 15,754,883 02/28/2019 18,000,000 1.125 17,917,031 1.13 17,931,780 PRODUKT RECORD 1	Corporate Debt Instruments	11/15/2018	2,200,000	2.000	2,218,320	1.99	2,214,124	5,500
02/28/2019 15,750,000 1.350 1,701,009 1.34 15,754,883 02/28/2019 18,000,000 1.125 17,917,031 1.13 17,931,780	Corporate Debt Instruments	01/14/2019	850,000	2.250	855,270	2.24	855,432	8,819
nents 47,360,000 75,701,104 76,007,18 76,607,18 76,607,19 76,607,18 76,607,18 76,607,18 76,607,18 76,607,18	Colpolate Debt instruments	11/30/2019	1,200,000	1.950	1,205,366	1.94	1,205,076	10,270
Nemis	U.S. Government Securities	02/28/2019	18,000,000	1.125	17,917,031	1.13	17,931,780	67,133
76 740 144 76 602 718 76 602 718 76 602 718 76 602 718 718 718 718 718 718 718 718 718 718						Į		
76 EN 77	Total Long-Term Investments		47,360,000	ļ	47,348,824	1	47,334,146	144,062
	Total Sinking Fund Reserve		76 740 114		76 602 718		76 605 721	162 740

CITY OF PHILADELPHIA SINKING FUND RESERVES AND RENEWAL FUNDS - REVENUE BONDS STATEMENT OF INVESTMENTS

June 30, 2017							
TVPE	Date of <u>Maturity</u>	Par Value	Interest Rate %	Purchase <u>Price</u>	Yield at <u>Market</u>	Market Value at <u>6/30/17</u>	Interest Accrued at <u>6/30/17</u>
Aviation Fund: Renewal Fund:							
Short Term Investment Pools	•	132,082		132,082	99.0	132,082	06
U.S. Government Securities	8/31/2017	100,000	0.625	99,641	0.63	98,938	209
U.S. Government Securities	10/31/2017	250,000	0.750	250,215	0.75	249,715	316
U.S. Government Securities	11/30/2017	100,000	0.625	868'66	0.63	99,794	53
U.S. Government Securities	2/28/2018	400,000	0.750	399,285	0.75	398,780	1,003
U.S. Government Securities	3/31/2018	150,000	0.875	150,100	0.88	149,573	332
U.S. Government Securities	5/31/2018	375,000	0.875	374,403	0.88	373,654	285
Federal Agency Obligations	8/1/2017	100,000	•	100,033	1.03	100,017	172
Federal Agency Obligations	12/8/2017	280,000	1.125	281,310	1.13	279,916	201
		1,887,082		1,886,968		1,883,469	2,660
Long-1 erm Investments: I IS Government Securities	12/31/2018	000 000	1.375	200 406	1.37	200 078	00
U.S. Government Securities	5/31/2019	195,000	1.250	194,886	1.25	194,528	206
		395,000	l	395,292		394,606	214
Total Renewal Fund		2,282,082		2,282,260		2,278,075	2,874
Philadelphia Gas Works: Sinking Fund:							
Short Term Investments:		100		100		7.1	,
Short Term Investment Pools	•	/54		/54		/54	102
Sinking Fund Reserve: Short Term Investments:							
Short Term Investment Pools		255,880		255,880		255,880	127
Corporate Debt Instruments	11/13/2017	2,000,000		1,980,273	1.34	1,990,100	•
Corporate Debt Instruments	01/26/2018	2,000,000		1,977,284	1.55	1,983,680	•
Corporate Debt Instruments	10/02/2017	2,000,000		1,988,103	1.31	1,993,380	•
Corporate Debt Instruments	10/13/2017	2,000,000	ı	1,979,456	1.41	1,992,580	•
Corporate Debt Instruments	08/01/2017	2,000,000	•	1,988,034	1.21	1,998,000	•
Corporate Debt Instruments	10/02/2017	2,000,000	•	1,987,661	1.35	1,993,380	•
Corporate Debt Instruments	08/03/2017	2,000,000	,	1,984,250	1.37	1,997,820	•
Corporate Debt Instruments	12/28/2017	2,000,000	,	1,978,032	1.50	1,986,460	•
Corporate Debt Instruments	03/15/2018	2,000,000	,	1,978,262	1.50	1,979,180	•
Corporate Debt Instruments	05/03/2018	2,000,000	1.000	1,993,020	1.00	1,992,760	3,222
Corporate Debt Instruments	03/06/2018	2,000,000	1.305	2,001,082	1.31	1,998,780	8,338
Corporate Debt Instruments	10/06/2017	2,250,000	1.875	2,261,900	1.87	2,252,453	9,961
Corporate Debt Instruments	01/12/2018	2,000,000	1.600	2,004,380	1.60	2,001,100	15,022

CITY OF PHILADELPHIA SINKING FUND RESERVES AND RENEWAL FUNDS - REVENUE BONDS STATEMENT OF INVESTMENTS

June 30, 2017							Amounts in USD
Type	Date of <u>Maturity</u>	Par Value	Interest Rate %	Purchase <u>Price</u>	Yield at <u>Market</u>	Market Value at <u>6/30/17</u>	Interest Accrued at <u>6/30/17</u>
Philadelphia Gas Works: Sinking Fund Reserve: Short Term Investments:							
Federal Agency Obligations	12/15/2017	6,950,000	1.000	6,964,171	1.00	6,944,718	3,089
Federal Agency Obligations	04/09/2018	5,000,000	0.750	5,004,050	0.75	4,981,250	8,542
Federal Agency Obligations	06/13/2018	2,250,000	4.875	2,414,835	4.72	2,325,780	5,484
Federal Agency Obligations	04/06/2018	8,750,000	0.700	8,743,525	0.70	8,716,488	4,253
Federal Agency Obligations	01/19/2018	5,000,000	0.750	4,995,241	0.75	4,987,000	16,875
U.S. Government Securities	09/30/2017	1,000,000	1.875	1,013,672	1.87	1,001,920	4,713
Total Short-Term Investments		55,455,880		55,493,111		55,372,708	79,626
Long-Term Investments:							
Corporate Debt Instruments	02/28/2019	2,000,000	1.686	1,999,418	1.68	2,001,400	11,177
U.S. Government Securities	07/31/2018	7,850,000	0.750	7,804,344	0.75	7,803,999	24,558
U.S. Government Securities	10/31/2018	4,200,000	0.750	4,168,828	0.76	4,167,534	5,336
U.S. Government Securities	04/30/2019	5,000,000	1.250	4,991,602	1.25	4,987,700	10,587
U.S. Government Securities	09/30/2018	5,250,000	1.375	5,304,961	1.37	5,252,048	18,243
U.S. Government Securities	11/30/2018	000,006	1.375	903,445	1.38	900,279	1,077
	02/28/2019	3,850,000	1.500	3,862,634	1.50	3,857,970	19,303
Federal Agency Obligations	03/18/2019	2,500,000	1.375	2,493,100	1.38	2,498,900	10,599
Total Long-Term Investments		31,550,000	l	31,528,331		31,469,829	100,880
Total Sinking Fund Reserve		87,005,880	I	87,021,442		86,842,537	180,506

City of Philadelphia Sinking Funds, Sinking Fund Reserves and Renewal Funds - Revenue Bonds Statement of Revenues, Expenditures and Fund Balance June 30, 2017

June 30, 2017										Amounts in USD
		Water Fund			Aviation Fund	Fund		Phila	Philadelphia Gas Works	
	Sinking Fund	Sinking Fund Reserve	Total	Sinking Fund	Sinking Fund Reserve	Renewal Fund	Total	Sinking Fund	Sinking Fund Reserve	Total
Revenues: Contribution for Debt Service Payments Water Find	204.649.608		204.649.608							
Aviation Fund Philadelphia Gas Works Contribution from Brond Proceeds				118,789,516			118,789,516	28,938,558		28,938,558
Reserve for Revenue Bonds Proceeds from Bond Sale		- 11,888,317								
to be Capitalized Contribution from Water Residual Fund Interest Earnings	43,242	2,736,667	2,779,909	269,410	- 466,059	18,280	753,749	678	1,050,496	- 1,051,173
Total Revenues	204,692,850	14,624,984	207,429,517	119,058,926	466,059	18,280	119,543,265	28,939,236	1,050,496	29,989,732
Expenditures: Debt Service Principal Interest Bond Issuance Costs	125,848,051 80,294,252		125,848,051 80,294,252	63,240,000 55,710,511		1 1 1	63,240,000 55,710,511	2,980,000 5,660,061 16,279,593		2,980,000 5,660,061
Total Expenditures	206,142,302		206,142,303	118,950,511	'	'	118,950,511	24,919,654		8,640,061
Excess of Revenues Over (Under) Expenditures	(1,449,451)	14,624,984	1,287,215	108,415	466,059	18,280	592,754	4,019,582	1,050,496	21,349,670
Other Financing Sources (Uses): Issuance of Debt Bond Issuance Premium Transfer from Other Funds					31,000,000	250,000	31,250,000	312,425,000 57,188,109		312,425,000 57,188,109
Transfer to Other Funds									(4,132,666)	(4,132,666)
Traces (Consessor) in manace (Nate 19) Gain (Loss) on Sale of Investments Bond Defeasance		(332,357)	(332,357) (1,035,935)		(35,800)	(7,223) (5,297)	(43,023) (141,377)	- (373,632,014 <u>)</u>	(82,515) (425,569)	(82,515) (425,569) (373,632,014)
Total Other Financing Sources (Uses)		(1,368,291)	(1,368,291)		30,828,120	237,480	31,065,600	(4,018,904)	(4,640,750)	(8,659,655)
Excess of Revenues and Other Sources Over (Under) Expenditures and Other Uses	(1,449,452)	13,256,692	(81,077)	108,415	31,294,179	255,760	31,658,354	879	(3,590,254)	12,690,015
Fund Balance - July 1, 2016	2,273,190	219,162,143	221,435,333	124,341	45,474,282	2,270,756	47,869,379	177	90,613,297	90,613,474
Unadjusted Fund Balance, June 30, 2017 Adjustments to Fund Balance Transfer of Excess Eamings Over Reserve Requirement	823,738	232,418,835	233,242,573	232,756 (128)	76,768,461	2,526,516	79,527,733 (128)	855	87,023,043	87,023,897
Fund Balance - June 30, 2017	823,738	218,723,226	219,546,964	232,628	76,768,461	2,526,516	79,527,605	855	87,023,043	87,023,897

City of Philadelphia

Part C

Notes to the Report of Bonded Indebtedness

(1) Sinking Fund Reserves represent the legal requirements as stipulated in the General Bond Ordinance wherein it is stated that Fund Balances, including investments at Market Value, must be maintained at an amount at least equal to the Maximum Debt Service Requirements (MDSR) in any subsequent year of all bonds outstanding. Under the General Airport Ordinance, in lieu of the required deposits into the Sinking Fund Reserve, the City may obtain an unconditional and irrevocable surety bond or letter of credit in the required amount provided that the issuer meets the credit ratings threshold in the General Ordinance. At June 30, 2017 the Airport Series 1998 bonds met the \$27,953,667 Sinking Fund Reserve requirement with a letter of credit issued by Wells Fargo Bank. The Airport Series 2005C bonds met the \$18,690,850 requirement with a letter of credit issued by TD Bank, and the Airport Series 2007A and 2007B bonds met the \$23,966,374 requirement with a surety policy issued by Financial Security Assurance Inc. The following table represents the MDSR for the outstanding revenue bonds that are not associated with surety bonds:

Water Fund	
Water and Wastewater Revenue Bonds, Series 1997B	3,992,333
Water and Wastewater Revenue Bonds, PA Infrastructure Investment	
Authority, Series 1999	90,665
Water and Wastewater Revenue Refunding Bonds, Series 2005B	18,430,514
Water and Wastewater Revenue Refunding Bonds, Series 2007A	10,173,125
Water and Wastewater Revenue Refunding Bonds, Series 2007B	7,166,875
Water and Wastewater Revenue Bonds, Series 2009A	4,867,600
Water and Wastewater Revenue Refunding Bonds, Series 2010A	37,443,198
Water and Wastewater Revenue Bonds, Series 2009B, C, D & 2010B	11,409,441
Water and Wastewater Revenue Bonds, Series 2010C	39,090,325
Water and Wastewater Revenue Bonds, Series 2011A	6,737,000
Water and Wastewater Revenue Refunding Bonds, Series 2011B	9,229,750
Water and Wastewater Revenue Refunding Bonds, Series 2012	3,250,250
Water and Wastewater Revenue Refunding Bonds, Series 2013A	11,759,700
Water and Wastewater Revenue Bonds, Series 2014A	1,500,000
Water and Wastewater Revenue Refunding Bonds, Series 2014	10,324,625
Water and Wastewater Revenue Bonds, Series 2015A	13,791,000
Water and Wastewater Revenue Refunding Bonds, Series 2015B	6,810,100
Water and Wastewater Revenue Refunding Bonds, Series 2016	9,011,138
Water and Wastewater Revenue Bonds, Series 2017A	13,645,587
Total Water Fund	\$ 218,723,226
Gas Works Fund	
Gas Works Revenue Bonds, Fifth Series A-2	247,671
Gas Works Revenue Refunding Bonds, Seventh Series	8,900,777
Gas Works Revenue Refunding Bonds, Eighth Series	12,686,806
Gas Works Revenue Bonds, Ninth Series	3,227,812
Gas Works Revenue Refunding Bonds, Tenth Series	7,060,482
Gas Works Revenue Refunding Bonds, Thirtteenth Series Gas Works Revenue Refunding Bonds, Fourteenth Series	28,329,859
Total Gas Works Fund	26,569,636 \$ 87.023.043
	\$ 87,023,043
Aviation Fund	
Airport Revenue Refunding Bonds, Series 2009A	1,471,656
Airport Revenue Bonds, Series 2010A	7,333,749
Airport Revenue Refunding Bonds, Series 2010D	10,366,864
Airport Revenue Refunding Bonds, Series 2011A	6,049,567
Airport Revenue Refunding Bonds, Series 2011B	1,018,519
Airport Revenue Refunding Bonds, Series 2015A	·
· ·	3,010,298
Airport Revenue Refunding Bonds, Series 2017A	3,010,298 47,517,808
· ·	3,010,298

(2) The General Obligation Sinking Fund contains \$0.3 million for the payment of future interest expenses of the Series 2009B Bonds.

In addition to the amounts available in the Sinking Fund Reserves for Revenue Bonds, \$0.8 million is available in the Water Sinking Fund for the payment of future interest expenses of the Series 1997B and 2005B variable rate bonds and the outstanding Pennvest Revenue bonds. The amounts remaining in the Airport Sinking Fund represent \$0.2 million available for the future interest expenses of the Series 2005C bonds.

The Aviation Renewal, Replacement and Contingency Fund has also been established in the amount of \$2.5 million that was originally funded from the proceeds of the First Series Airport Revenue Bonds. The amounts in the Renewal Fund may be decreased from time to time to cover the cost of unforeseen contingencies and emergencies arising from the operation of the airport system. Under the Airport's General Bond Ordinance, the Renewal Fund must be reimbursed for such uses through periodic payments in an aggregate amount not to exceed \$500,000 per year.

(3) The Pennsylvania Intergovernmental Cooperation Authority (PICA), a body corporate and politic, was organized in June 1991 and exists under and by virtue of the Pennsylvania Intergovernmental Cooperation Act for Cities of the First Class (the Act). Pursuant to the Act, the Authority was established to provide financial assistance to cities of the First Class. The City currently is the only city of the First Class in the Commonwealth of Pennsylvania. Under the Act, PICA is administered by a governing Board consisting of five voting members and two ex-officio non-voting members. The Governor, the President Pro Tempore of the Senate, the Speaker of the State House of Representatives and the Minority Leader of the State House of Representatives each appoints one voting member to the Board.

The Act provides that, upon PICA's approval of a request of the City for financial assistance, PICA shall have certain financial and oversight functions. First, PICA shall have the power to issue bonds and grant or lend the proceeds thereof to the City. Second, PICA also shall have the power, in its oversight capacity, to exercise certain advisory and review powers with respect to the City's financial affairs, including the power to review and approve five-year financial plans prepared at least annually by the City, and to certify noncompliance by the City with its current five-year plan (which certification would require the Secretary of the Budget of the Commonwealth to cause certain Commonwealth payments due to the City to be withheld).

PICA bonds are payable from the proceeds of a PICA tax on the wages and income earned by City residents. The City has reduced its share of wage and earnings tax that it levies on City residents in order to provide a revenue stream to PICA. PICA returns to the City any portion of the tax not required to meet their debt service and operating expenses. In Fiscal 2017, this transfer amounted to \$409.5 million. At June 30, 2017 PICA bonds outstanding amounted to \$213.9 million. The debt service through maturity is as follows:

<u>Year</u>	<u>Pı</u>	<u>rincipal</u>	<u>In</u>	<u>terest</u>
2018		45.4		10.7
2019		38.8		8.4
2020		40.5		6.4
2021		32.9		4.4
2022		34.4		2.8
2023		21.9		1.1
Total	\$	213.9	\$	33.8

(4) The City has guaranteed certain debt payments of the following City component units. As such, the City has a potential financial obligation toward the extinguishment of this debt, either by replacing the various reserve funds, if used, or the actual payment of principal or interest. At June 30, 2017 the principal balances outstanding are as follows:

	\$	11.7
Philadelphia Parking Authority	`	incipal 11.7

(5) As of 2010, the City of Philadelphia Water Department received authorization for up to \$214.9 million of low-interest loans from the Pennsylvania State Infrastructure Investment Authority (PENNVEST). During Fiscal Year 2017, PENNVEST's reimbursements totaled \$6.2 million, which represents an increase in bond issuance. The funding is through low-interest loans of 1.193% during the construction period and for the first five years of amortization (interest only payments are due during the construction period, up to three years) and 2.107% for the remaining fifteen years. Individual loan information is as follows:

				Amo	ount
		Amount		Issued	as of
<u>Date</u>	<u>Series</u>	<u>Authorized</u>		6/30/2	<u> 2017</u>
October 2009	2009B	42,886,030		29	,432,930
October 2009	2009C	57,268,193		49	,157,776
March 2010	2009D	84,759,263		75	,744,096
July 2010	2010B	30,000,000		28	,500,000
	Totals	\$ 214,913,486	9	182	,834,802

- (6) In February 2017, the City issued \$262.9 million of General Obligation Refunding Bonds Series 2017. The total proceeds were \$292.9 million (including a premium of \$30.0 million). The proceeds of the sale were used to refund the series 2006, 2007A, 2008A, 2009A and 2011 bonds. The interest rates of the Bonds that were refunded ranged from 4.75% to 6.5%. The interest rates of the newly issued bonds ranged from 4% to 5%. The transaction resulted in a total savings to the City of \$39.4 million over the next 26 years. The economic gain (the difference between the present value of debt service payments on the old versus the new debt) was \$15.6 million.
- (7) In April 2017, PMA issued \$83.2 million of City Service Agreement Revenue Refunding Bonds Series 2017. The total proceeds of the 2017 bonds were \$93.8 million (which includes a premium of \$10.6 million). The 2017 Bonds were issued to partially refund \$84.2 million of the Series 2009 Bonds and to pay the costs of issuing the 2017 Bonds. The interest rates for the 2017 Bonds range from 3.0% to 5.0%. The interest rates of the refunded bonds range from 6.0% to 6.5%. The transaction resulted in a total savings to the City of \$22.2 million over the next 22 years. The difference between the present value of the debt service payments on the old debt versus the new debt (economic gain) was \$15.6 million.
- (8) In August 2016, the City issued \$312.4 million of Philadelphia Gas Works Fourteenth Series Revenue Refunding Bonds. A portion of the proceeds were also used to pay the costs of issuance of the Fourteenth series bonds, refund portions of the outstanding Seventh, Eighth and Ninth Series bonds, (1998 General Ordinance Bonds). The total bonds refunded amounted to \$351.5 million.

The total proceeds of the PGW Fourteenth Series Bonds were \$369.6 million (which includes a premium of \$57.2 million). The interest rates of the bonds that were refunded ranged from 3.675% to 5.250%. The interest rates of the newly issued bonds range from 2.0% to 5.0%.

- (9) In April 2017, the City issued \$125.0 million of Airport Revenue Bonds Series 2017 (Direct Purchase Federally Taxable Loan) to fund capital improvements for the Philadelphia Airport System. The interest rate of the newly issued Series 2017 Loan is 2.797%.
- (10) In November 2016, the City issued \$192.7 million of Water and Wastewater Revenue Bonds Series 2016 Bonds to refund the outstanding Series 2007A, 2009A and 2010C Bonds in the amount of \$216.4 million and to pay the costs of issuing the Series 2016 Bonds. The total proceeds of the 2016 Bonds were \$226.0 million (which includes a premium of \$33.3 million). The interest rates of the bonds that were refunded ranged from 4.0% to 5.25%. The interest rates of the newly issued bonds range 3.0% to 5.0%. The transaction resulted in a total savings to the City of \$51.4 million over the next 20 years The economic gain was \$40.9 million.
- (11) In April 2017, the City issued \$279.9 million of Water and Wastewater Revenue Bonds Series 2017A Bonds to fund capital improvements for the Water Department and make a deposit into the Water Sinking Fund Reserve. The total proceeds of the 2017A Bonds were \$313.7 million (which includes a premium of \$33.8 million). The interest rates of the newly issued bonds range 5.0% to 5.25%.
- (12)General Obligation Maturities of \$67,890,000 were paid as follows: July 2016 \$10,370,000; August 2016 \$49,020,000; and December 2015 \$8,500,000.
- (13)Revenue Bond Maturities of \$230,217,824 were paid as follows: July 2016 \$13,228,897; August 2016 \$94,693,913; September 2016 \$848,929; October 2016 \$3,828,945; November 2016 \$6,748,961; December 2016 \$848,977; January 2017 \$8,408,993; February 2017 \$849,009; March 2017 \$849,026; April 2017 \$2,459,042; May 2017 \$849,058; and June 2017 \$96,604,074.
- (14)In relation to the City's debt-incurring capacity statement, the Pennsylvania Constitution, Article IX, Section 12 states the following:

"The debt of the City of Philadelphia may be increased in such amount that the total debt of said city shall not exceed thirteen and one-half percent of the average of the annual assessed valuations of the taxable realty therein, during the ten years immediately preceding the year in which such increase is made, but said city shall not increase its indebtedness to an amount exceeding three percent upon such average assessed valuation of realty, without the consent of the electors thereof at a public election held in such manner as shall be provided by law. In ascertaining the debt-incurring capacity of the City of Philadelphia at any time, there shall be deducted from the debt of said city so much of such debt as shall have been incurred, or is about to be incurred, and the proceeds thereof expended, or about to be expended, upon any public improvement, or in construction, purchase or condemnation of any public utility, or part hereof, or facility therefore, if such public improvement or public utility, or part thereof, or facility therefore, may reasonably be expected to yield revenue in excess of operating expenses sufficient to pay the interest and sinking fund charges thereon. The method of determining such amount, so to be deducted, shall be as now prescribed, or which may hereafter be prescribed by law. In incurring indebtedness for any purpose the City of Philadelphia my issue its obligations maturing not later than fifty years from the date thereof, with provision for a sinking fund to be equal or graded annual or other periodical installments. Where any indebtedness shall be or shall have been incurred by said City of Philadelphia for the purpose of the construction or improvement of public works or utilities of any character, from which income or revenue is to be derived by said city, or for the reclamation of land to be used in the construction of wharves or docks owned or to be owned by said city, such obligations may be in an amount sufficient to provide for, and may include the amount of the interest and sinking fund charges accruing and which my accrue thereon throughout the period of construction, and until the expiration of one year after the completion of the work for which said indebtedness shall have been incurred. No debt shall be incurred by, or on behalf of, the County of Philadelphia."

- (15)In August of 1990, the City sold the Philadelphia Port Corporation to the Regional Port Authority (State Authority). Indebtedness authorized for port related activities was considered self-sustaining. After the sale, the outstand self-sustaining debt was reclassified as tax supported. At June 30, 2017 the outstanding reclassified debt amounted to \$400,479.15 of the total port debt of \$1,629,412.58.
- (16)Self-supporting General Obligation Bonds are outstanding at June 30, 2017 for the following major purposes: Veterans Stadium \$97,084.15; Subways \$573,948.70; and Hospitals Tri-Institutional Laundry \$48,185.51. Refer to Exhibit A-9.
- (17)Capitalized Interest related to enterprise funds will be reflected in the Sinking Fund Assets. For fiscal year 2017, there is no capitalized interest for any of the enterprise funds. Capitalized Interest related to lease and service obligations are deducted from the yearly interest payment amounts. At June 30, 2017, the 2012 PAID refunding bonds had a total of approximately \$33.1 million in General Fund Escrow.
- (18)Water and Wastewater Revenue Bonds, Series 1997B outstanding at June 30, 2017 in the amount of \$53,200,000 were issued as Variable Rate Bonds on November 25, 1997. At June 30, 2017, the total interest payable for the Series 1997B bonds are determined by the interest rate of 0.89%.

Water and Wastewater Revenue Bonds, Series 2005B outstanding at June 30, 2017 in the amount of \$18,180,000 were issued as Variable Rate Bonds on May 4, 2005. At June 30, 2017, the Total Interest Payable for these bonds is determined by the interest rate of 4.53%

Gas Works Revenue Bonds, Fifth Series A-2 outstanding at June 30, 2017 in the amount of \$30,000,000 were issued as Variable Rate Bonds on October 19, 2004. At June 30, 2017, the Total Interest Payable for the Fifth Series A-2 bonds is determined by the interest rate of 0.89%.

Gas Works Revenue Bonds, Eighth Series B, C, D & E outstanding at June 30, 2017 in the amount of \$122,810,000 were issued as Variable Rate Bonds on August 20, 2009. At June 30, 2017, the Total Interest Payable for these bonds is determined by the interest rate of 3.6745%.

General Obligation Bonds, Series 2009B outstanding at June 30, 2017 in the amount of \$100,000,000 were issued as Variable Rate Bonds on August 13, 2009. At June 30, 2017, the total interest payable for these 2009B bonds is determined by the interest rate of 3.829%.

(19)The City is legally required by the General Bond Ordinance to present investments at market value for the satisfaction of debt service reserve requirements. Fund balances reflect this valuation basis and changes in the allowance for the reporting period are included in income determination. Actual gains and losses are recognized in the period in which disposition of the investment occurs.