

# ANNUAL DISCLOSURE INFORMATION

Pertaining to

City of Portland, Oregon



## First Lien Water System Revenue & Refunding Bonds:

\$73,440,000	2010 Series A	Dated February 11, 2010
\$82,835,000	2011 Series A	Dated March 22, 2011
\$76,510,000	2012 Series A	Dated August 2, 2012
\$84,975,000	2014 Series A	Dated December 16, 2014
\$168,525,000	2016 Series A	Dated December 15, 2016

## Second Lien Water System Revenue & Refunding Bonds:

\$253,635,000	2013 Series A	Dated May 2, 2013
\$112,005,000	2019 Series A	Dated October 22, 2019

December 31, 2019





**MATURITY SCHEDULES FIRST LIEN BONDS (Continued):**

**\$82,835,000\***

**First Lien Water System Revenue Bonds,  
2011 Series A**

<b>Due May 1</b>	<b>Principal Amount</b>	<b>Interest Rate</b>	<b>CUSIP 736754</b>
2020	\$2,710,000	5.00%	JM5
2021	2,845,000	4.00%	JN3
2022	2,960,000	4.00%	JP8
2023	3,075,000	4.00%	JQ6
2024	3,200,000	4.00%	JR4
2025	3,330,000	4.00%	JS2
2026	3,460,000	4.00%	JT0
2027	3,600,000	4.00%	JU7
2028	3,745,000	4.00%	JV5
2029	3,895,000	4.25%	JW3
2030	4,060,000	4.50%	JX1
2031	4,240,000	4.50%	JY9
2032	4,430,000	5.00%	JZ6
2033	4,655,000	5.00%	KA9
2034	4,885,000	5.00%	KB7
2035	5,130,000	5.00%	KC5
2036	5,385,000	5.00%	KD3
	<u>\$65,605,000</u>		

\*Original par amount.

**MATURITY SCHEDULES FIRST LIEN BONDS (Continued):**

**\$76,510,000\***

**First Lien Water System Revenue Bonds  
2012 Series A**

<b>Due April 1</b>	<b>Principal Amount</b>	<b>Interest Rate</b>	<b>CUSIP 736754</b>
2020	\$2,510,000	5.00%	KM3
2021	2,635,000	5.00%	KN1
2022	2,765,000	3.00%	KP6
2023	2,850,000	3.00%	KQ4
2024	2,935,000	3.00%	KR2
2025	3,020,000	3.00%	KS0
2026	3,110,000	3.00%	KT8
2027	3,205,000	3.00%	KU5
2028	3,300,000	3.00%	KV3
2029	3,400,000	3.00%	KW1
2030	3,505,000	3.00%	KX9
2031	3,610,000	3.00%	KY7
2032	3,715,000	3.00%	KZ4
2033	3,825,000	3.00%	LA 8
2034	3,940,000	3.25%	LB6
2035	<u>4,070,000</u>	3.25%	LC4
	<u>\$52,395,000</u>		

\$8,545,000 3.25% Term Bonds, due April 1, 2037  
CUSIP Number 736754LD2

\*Original par amount.

**MATURITY SCHEDULES FIRST LIEN BONDS (Continued):**

**\$84,975,000\***

**First Lien Water System Revenue Bonds  
2014 Series A**

<b>Due May 1</b>	<b>Principal Amount</b>	<b>Interest Rate</b>	<b>CUSIP 736754</b>
2020	\$2,385,000	5.00%	MU3
2021	2,505,000	5.00%	MV1
2022	2,630,000	5.00%	MW9
2023	2,760,000	5.00%	MX7
2024	2,900,000	5.00%	MY5
2025	3,045,000	3.00%	MZ2
2026	3,135,000	3.00%	NA6
2027	3,230,000	5.00%	NB4
2028	3,390,000	4.00%	NC2
2029	3,530,000	3.00%	ND0
2030	3,635,000	4.00%	NE8
2031	3,780,000	4.00%	NF5
2032	3,930,000	4.00%	NG3
2033	4,085,000	4.00%	NH1
2034	4,250,000	4.00%	NJ7
2035	4,420,000	4.00%	NK4
2036	4,600,000	4.00%	NL2
2037	4,780,000	4.00%	NM0
2038	4,975,000	3.50%	NN8
2039	5,145,000	4.00%	NP3
	<u>\$73,110,000</u>		

\*Original par amount.

**MATURITY SCHEDULES FIRST LIEN BONDS (Continued):**

**\$168,525,000\***

**First Lien Water System Revenue and Refunding Bonds  
2016 Series A**

<b>Due April 1</b>	<b>Principal Amount</b>	<b>Interest Rate</b>	<b>CUSIP 736754</b>
2020	\$11,435,000	5.00%	NT5
2021	12,015,000	5.00%	NU2
2022	5,135,000	5.00%	NV0
2023	5,390,000	5.00%	NW8
2024	5,665,000	5.00%	NX6
2025	5,945,000	5.00%	NY4
2026	6,240,000	5.00%	NZ1
2027	6,555,000	4.00%	PA4
2028	6,820,000	4.00%	PB2
2029	7,090,000	4.00%	PC0
2030	7,375,000	4.00%	PD8
2031	7,665,000	4.00%	PE6
2032	7,975,000	4.00%	PF3
2033	8,290,000	4.00%	PG1
2034	8,625,000	4.00%	PH9
2035	4,270,000	4.00%	PJ5
2036	4,440,000	4.00%	PK2
2037	4,620,000	4.00%	PL0
2038	4,805,000	4.00%	PM8
2039	4,995,000	4.00%	PN6
2040	5,195,000	4.00%	PP1
2041	5,405,000	4.00%	PQ9
	<u>\$145,950,000</u>		

\*Original par amount.

**MATURITY SCHEDULE SECOND LIEN BONDS:**

**\$253,635,000\***

**Second Lien Water System Revenue and Refunding Bonds  
2013 Series A**

<b>Due Oct. 1</b>	<b>Principal Amount</b>	<b>Interest Rate</b>	<b>CUSIP 736754</b>
2020	\$3,000,000	4.00%	LL4
2020	6,840,000	5.00%	MG4
2021	3,000,000	4.00%	LM2
2021	8,450,000	5.00%	MH2
2022	12,030,000	5.00%	MJ8
2023	3,000,000	4.00%	LN0
2023	9,635,000	5.00%	MK5
2024	8,945,000	5.00%	LP5
2025	9,405,000	5.00%	LQ3
2026	9,885,000	5.00%	LR1
2027	10,395,000	5.00%	LS9
2028	10,815,000	3.00%	LT7
2029	11,200,000	4.00%	LU4
2030	11,650,000	4.00%	LV2
2031	10,145,000	4.00%	ML3
2031	2,000,000	5.00%	LW0
2032	5,925,000	4.00%	MM1
2032	2,000,000	5.00%	LX8
2033	5,205,000	4.00%	MN9
2033	3,070,000	5.00%	LY6
	<u>\$146,595,000</u>		

\$36,685,000 4.00% 2013 Series A Term Bonds due October 1, 2037;  
CUSIP Number 736754 LZ3

\*Original par amount.



**MATURITY SCHEDULE SECOND LIEN BONDS:**

**\$112,005,000\***

**Second Lien Water System Revenue and Refunding Bonds  
2019 Series A**

<b>Due Oct. 1</b>	<b>Principal Amount</b>	<b>Interest Rate</b>	<b>CUSIP 736754</b>
2020	\$2,520,000	5.00%	PR7
2021	2,475,000	5.00%	PS5
2022	2,600,000	5.00%	PT3
2023	2,730,000	5.00%	PU0
2024	2,865,000	5.00%	PV8
2025	3,010,000	5.00%	PW6
2026	3,160,000	5.00%	PX4
2027	3,320,000	5.00%	PY2
2028	3,485,000	5.00%	PZ9
2029	3,660,000	5.00%	QA3
2030	3,840,000	5.00%	QB1
2031	4,035,000	5.00%	QC9
2032	4,235,000	5.00%	QD7
2033	4,445,000	5.00%	QE5
2034	4,670,000	5.00%	QF2
2035	4,905,000	5.00%	QG0
2036	5,150,000	5.00%	QH8
2037	5,405,000	5.00%	QJ4
2038	5,675,000	4.00%	QK1
2039	5,900,000	4.00%	QL9
	<u>\$78,085,000</u>		

\$33,920,000 5.00% 2019 Series A Term Bonds due May 1, 2044;  
CUSIP Number 736754 QM7

\*Original par amount.



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# WATER SYSTEM FINANCIAL AND OPERATING INFORMATION

## OVERVIEW

This section provides financial and operating information specifically related to the Water System.

## FUND ACCOUNTING SYSTEM

The financial reporting system of the Portland Water Bureau (the “Bureau”) is organized into three separate funds. The funds and their financial reporting purpose are described as follows:

**Water Operating Fund.** This fund serves as the operating fund of the Bureau and, with the exception of debt service, all expenditures are made from this fund for operation, maintenance and capital assets. Receipts from the sale of water are the primary source of revenue for the Water Operating Fund. The cash flow in this fund determines the need for rate increases. The Rate Stabilization Account is within the Water Operating Fund.

**Water Construction Fund.** By City Charter stipulation, this fund is the recipient of proceeds from bond sales and SDCs. Other sources of revenue include reimbursements for capital expenditures, such as main extensions and service installations and sale of assets. Also, a portion of the water sales revenues is transferred to this fund to finance routine system repair and replacement. The Water Construction Fund reimburses the Water Operating Fund for capital asset requirements including capitalized overhead, capitalized interest, and the cost of issuing bonds.

**Water Bond Sinking Fund.** This fund provides for the repayment of bonded debt and interest, and maintains the water revenue bond debt service reserves for various issues. The source of revenue for this fund is a transfer from the Water Operating Fund and interest earnings.

These three funds enable the Bureau to segregate resources for specific uses and ensure that reserves are not used to supplement daily operating needs. Maintenance of the fiscal integrity of each fund is a key objective of the Bureau's financial planning and analysis efforts. The Bureau's fund structure provides for the accounting and control of expenditures and differs from the account structure described in the Master First Lien Bond Declaration and the Master Second Lien Bond Declaration. The accounts described in the Master First Lien Bond Declaration and the Master Second Lien Bond Declaration have been established to identify priority claims on Water System revenues and are accounted for separately.

## HISTORICAL OPERATING RESULTS

The Bureau has collected Water System revenues sufficient to provide for all operating expenses, to pay debt service, and to meet debt service coverage requirements on its outstanding Water System revenue bonds. In addition to meeting these requirements, the Bureau provides cash financing of its capital program by setting current rates and charges at a level sufficient to meet planned debt service coverage targets.

The Bureau continues to maintain a target minimum debt service coverage ratio of 1.90 times on First Lien Bonds (higher than the 1.25 times required by the Master First Lien Bond Declaration). In addition, the Bureau maintains a minimum debt service coverage ratio target for combined first and second lien bond debt service of 1.75 times using Stabilized Net Revenues as defined in the Master Second Lien Bond Declaration. (The Master Second Lien Bond Declaration requires 1.10 times debt service coverage using Stabilized Net Revenues.)

Historical operating results of the Bureau's financial operations are shown in the following table. Between FY 2014-15 and FY 2018-19, Gross Revenues grew at a compound annual rate of 6.5 percent. Gross revenues increased overall primarily due to the rate change for water sales, increased delinquency receipts, and an increase in capital charges due to an increase in building and permitting activity. Gross revenues also increased in FY 2014-15, FY 2015-16 and FY 2017-18 due to increased water demand. Operating Expenses during the five-year period averaged \$82.0 million.

Over the last five years, Net Revenues have provided from 1.88 times to 2.20 times debt service coverage on First Lien Bonds and Second Lien Bonds. Debt service coverage decreased in FY 2015-16 due to increased water sales and capital revenue, offset with higher operating expenses and debt service. The Bureau contributed \$17.0 million to the Rate Stabilization Account in FY 2018-19. Stabilized Net Revenues provided 1.90 times coverage on the combined annual debt service for both First and Second Lien Bonds in FY 2018-19. Audited statements of revenues, expenses, and changes in fund net position, the statement of net position, and the statement of cash flows for the Water Fund are presented in the Appendix.

**Table 1**  
**CITY OF PORTLAND, OREGON**  
**Water Bureau**  
**Historical Operating Results**

Fiscal Year Ending June 30	2014-15	2015-16	2016-17	2017-18	2018-19
(in thousands of dollars)					
<b>GROSS REVENUES<sup>(1)</sup></b>					
Operating Revenues	\$147,558	\$161,849	\$164,675	\$179,007	\$187,539
Interest Earnings	1,020	1,371	2,262	3,244	4,301
Capital Charges	13,950	15,980	16,367	20,948	17,256
Total Gross Revenues	\$162,528	\$179,200	\$183,304	\$203,199	\$209,096
<b>OPERATING EXPENSES<sup>(1)(2)</sup></b>					
Operating Expenses	\$67,951	\$93,514	\$77,909	\$84,143	\$86,305
<b>NET REVENUES<sup>(3)</sup></b>	<b>\$94,577</b>	<b>\$85,686</b>	<b>\$105,395</b>	<b>\$119,056</b>	<b>\$122,791</b>
<b>DEBT SERVICE</b>					
First Lien Bonds	\$28,151	\$28,804	\$34,872	\$36,988	\$38,114
Second Lien Bonds	22,054	22,050	18,772	18,778	17,655
Total Debt Service	\$50,205	\$50,854	\$53,644	\$55,766	\$55,769
<b>DEBT SERVICE COVERAGE<sup>(5)</sup></b>					
First Lien Bonds	3.36	2.97	3.02	3.22	3.22
First and Second Lien Bonds	1.88	2.07	1.96	2.13	2.20
<b>COVERAGE BASED ON STABILIZED NET REVENUES<sup>(4)</sup></b>					
<b>NET REVENUES</b>	<b>\$94,577</b>	<b>\$105,450</b>	<b>\$105,395</b>	<b>\$119,056</b>	<b>\$122,791</b>
Less: Transfers to Rate Stabilization Account	(2,500)	(3,000)	(3,000)	(8,100)	(17,000)
<b>STABILIZED NET REVENUES</b>	<b>\$92,077</b>	<b>\$102,450</b>	<b>\$102,395</b>	<b>\$110,956</b>	<b>\$105,791</b>
<b>DEBT SERVICE COVERAGE</b>					
First and Second Lien Bonds	1.83	2.01	1.91	1.99	1.90

(1) As defined in the Master First Lien Bond Declaration. Operating expenses excludes a negative expense of \$12.8 million for FY 2014-15 and includes an expense of \$19.8 million for FY 2015-16 related to GASB 68. That treatment of these non-cash items results in the most conservative debt coverage calculation for both fiscal years. Effective as of FY 2016-17, these non-cash GASB-related expenses are excluded from Operating Expenses in calculating Net Revenues and debt service coverage. See definition of Operating Expenses in Master First Lien Bond Declaration.

(2) Operating expenses include the Bureau's share of debt service for the City's pension obligation bonds and Post-Employment Retirement Benefits.

(3) In FY 2015-16, Net Revenues excludes \$19.8 million of expenses related to GASB 68 reporting requirements for calculating combined first and second lien debt service coverage, as provided in the Master Second Lien Bond Declaration.

(4) The Second Lien Rate Stabilization Account was created with the issuance of Second Lien Bonds in 2006.

(5) Beginning in FY 2015-16, Stabilized Net Revenues excludes expenses related to GASB 68 reporting requirements, as provided in the Master Second Lien Bond Declaration.

Note: Totals may not foot due to rounding.

Source: City of Portland

## WATER SYSTEM CUSTOMERS, DEMAND, RATES AND BILLING

### Overview

The Bureau has both retail and wholesale water customers. Retail use constitutes about 60 percent of all water use in a given year, which represents approximately 89 percent of the City’s annual water sale revenues; wholesale water use is the remaining 40 percent, which represents approximately 11 percent of the City’s annual water sale revenues.

### Retail Water Customers

Currently, the Bureau has more than 186,000 metered retail accounts. These include accounts for single-family and multi-family residential, commercial, industrial, and institutional customers. This represents more than half of the population in the Portland metropolitan area across Multnomah, Washington, and Clackamas counties.

**Table 2**  
**CITY OF PORTLAND, OREGON**  
**Water Bureau**  
**Historical Number of Accounts**

<b>Fiscal Year Ending June 30</b>	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>
<b>TOTAL RETAIL CUSTOMERS</b>	183,300	184,300	185,100	185,600	186,600
<b>WHOLESALE CUSTOMERS</b>					
Tualatin Valley Water District	60,550	61,684	63,535	62,985	62,985
Rockwood Water PUD	13,417	13,420	13,519	13,568	13,586
Gresham, City of	16,789	16,691	16,832	17,074	17,251
Tualatin, City of	6,384	6,872	6,900	6,985	6,985
Tigard, City of <sup>(1)</sup>	18,535	18,821	-	-	-
West Slope Water District	3,310	3,200	3,221	3,225	3,224
Raleigh Water District	1,008	1,004	1,005	1,015	1,022
Palatine Hill Water District	603	598	611	611	611
City of Sandy	3,608	3,703	3,776	3,853	3,856
Lake Grove Water District	1,327	1,267	1,268	1,273	1,361
Valley View Water District	383	384	383	385	385
Pleasant Home Water District	546	550	545	575	570
Lusted Water District	410	409	411	411	407
Burlington Water District	113	113	113	113	116
Six private water companies <sup>(2)</sup>	207	207	209	214	225
<b>Total Wholesale Customers</b>	127,190	128,923	112,328	112,287	112,584
<b>Grand Total</b>	310,490	313,233	297,428	297,887	299,184

(1) The City of Tigard Regional Water Sales Agreement terminated on June 30, 2016.

(2) Six private water companies include GNR Corporation, Green Valley Water Company, Hideaway Hills Water Company, Lorna Domestic Water LLC, Skyview Acres Water Company, and Two Rivers Water Association.

Note: Totals may not foot due to rounding.

Source: City of Portland

Approximately 40 percent of all of the Bureau’s retail water sales are to single-family residential customers; 17 percent of sales are to multi-family residential customers; and 43 percent of sales are to commercial, industrial, and institutions. As of FY 2018-19, residential accounts make up the majority of the approximately 186,600 water accounts. Commercial accounts total approximately 20,000 (including 4,100 fire line accounts) water services. In addition to water service accounts, there are more than 6,100 sewer-only accounts, most of which are billed bi-monthly.

Table 3 shows the top ten retail users and revenues for FY 2018-19.

**Table 3**  
**CITY OF PORTLAND, OREGON**  
**Major Retail Users for FY 2018-19**

<b>Retail Commercial Users</b>	<b>Annual Usage (ccf)<sup>(1)</sup></b>	<b>% of Annual Usage (ccf)<sup>(1)</sup> to Total Retail Customers</b>	<b>Revenue</b>	<b>% of Total Revenue</b>
City of Portland, Bureau of Parks	312,165	1.2%	\$1,428,874	0.7%
Siltronic Corp.	268,204	1.1	1,307,548	0.6
Oregon Health and Sciences University	237,396	0.9	1,193,635	0.6
Precision Castparts	228,554	0.9	1,124,833	0.5
Port of Portland	187,500	0.7	986,802	0.5
Darigold, Inc.	162,117	0.6	794,332	0.4
Evraz, Inc.	151,520	0.6	742,389	0.4
Portland Public Schools	118,468	0.5	738,843	0.4
Portland State University	102,454	0.4	559,645	0.3
Housing Authority of Portland	93,263	0.4	477,040	0.2
<b>TOTAL:</b>	<b>1,861,641</b>	<b>7.3%</b>	<b>\$9,353,941</b>	<b>4.5%</b>

(1) "ccf" means centum cubic feet or 100 cubic feet.  
Source: City of Portland

### Wholesale Water Customers

The Bureau currently provides water on a wholesale contract basis to 19 water purveyors, which include cities, water districts, and private water companies. Annual water sales to wholesale customers account for about ten percent of annual water sale revenues. The Bureau currently provides water on a wholesale contract basis to 19 water purveyors, which include cities, water districts, and private water companies. Annual water sales to wholesale customers account for about 11 percent of annual water sale revenues. Wholesale customers pay based on their use of the system in accordance with contract terms.

A significant feature of the wholesale agreements is the guaranteed supply and payment provisions. In exchange for the Bureau's guarantee of a predetermined water supply to each wholesale customer, the wholesale customers will pay for those annual quantities on a take-or-pay basis during the contract period. This provision means that the Bureau's wholesale revenues are considerably more stable and not subject to adverse demand fluctuations due to weather, economic downturns, or other factors for the duration of the contracts. The only variation in revenues due to demand would occur from mutually agreed-upon sales beyond the take-or-pay quantities or from changes in the ratio of peak-to-average demands of the users. The City currently has ample water supply to meet all obligations to deliver water as required by wholesale agreements and to supply its retail customers.

Wholesale customers must give five years' notice of non-renewal. Either party may give a written notice of non-renewal and can do so at any time during the last five years of their respective contracts. If such a notice is issued, the contract will terminate on the next June 30 at least five years but not more than six years from the date of the notice. If neither party gives notice of non-renewal during the last five years of the respective contracts, the contract will continue for another 10 years. If the contracts are renewed, then the contracts shall also be repeatedly renewed for 10-year intervals, and every 10 years thereafter, unless one of the parties gives a notice of non-renewal during the second five years of each ten-year renewal period. The 20- and 10-year agreements are virtually identical except that the 10-year agreement customers pay a higher rate of return to the City in exchange for the ability to elect not to renew their contracts at an earlier date.

The amount of revenue to be generated from wholesale customers under these contracts is guaranteed to be about \$21.0 million in FY 2019-20, based on the take-or-pay provisions in the contracts and the guaranteed water quantities requested by each wholesale customer. This represents approximately 11 percent of planned water sales for FY 2019-20. Table 4 shows guaranteed purchase quantities, percent of sales, rates, and guaranteed revenues from each wholesale customer for FY 2019-20.

Between 2006 and 2009, the City entered into new wholesale contracts with 14 cities and public water districts. Of the 14 wholesale contracts, five customers have 10-year contracts and nine customers have 20-year contracts. The remaining



wholesale customers are six small private water companies, with contracts that renew every five years. The City of Tigard was the only wholesale customer with a 10-year agreement that provided a non-renewal notice in Fiscal Year 2010-11, therefore, its agreement terminated on June 30, 2016. The remaining four wholesale customers with 10-year agreements extended those agreements in 2016; therefore, those agreements will continue through June 30, 2026.

**Table 4**  
**CITY OF PORTLAND, OREGON**  
**Water Bureau**  
**Purchase Quantities and Guaranteed Revenues for Wholesale Customers, FY 2019-20**

<b>Wholesale Customer</b>	<b>Earliest Date for Contract Termination</b>	<b>FY 2019-20 Guaranteed Purchase Quantities (million ccf)</b>	<b>FY 2019-20 Rate<sup>(1)</sup></b>	<b>Guaranteed Revenue</b>	<b>% of Total Wholesale Revenue (\$)</b>	<b>% of Total Revenue</b>
Tualatin Valley Water District	6/30/2026	6.4	\$1.364	\$8,783,138	42%	4%
Rockwood Water PUD	6/30/2026	3.8	0.829	3,163,943	16	2
Gresham, City of	6/30/2026	3.7	0.829	3,042,253	15	1
Tualatin, City of	6/30/2026	2.1	1.229	2,645,964	13	1
West Slope Water District	6/30/2026	0.7	1.977	1,354,298	6	<1
Palatine Hill Water District	6/30/2027	0.2	2.442	513,799	2	<1
Raleigh Water District	6/30/2026	0.3	1.219	417,523	2	<1
Lake Grove Water District	6/30/2026	0.1	2.841	417,033	2	<1
Valley View Water District	6/30/2026	0.1	2.605	206,491	1	<1
Sandy, City of	6/30/2028	0.2	0.699	171,012	<1	<1
Pleasant Home Water District	6/30/2026	0.1	1.265	123,794	<1	<1
Lusted Water District	6/30/2026	0.1	1.233	108,596	<1	<1
Burlington Water District	6/30/2026	< 0.1	1.742	46,881	<1	<1
Six private water companies <sup>(2)</sup>	6/30/2021	< 0.1	1.207	41,340	<1	<1
<b>Total</b>		<b>18.0</b>		<b>\$21,036,065</b>	<b>100%</b>	<b>10%</b>

(1) Wholesale rates are calculated using methodologies that differ from inside-city retail rates, and generally do not include distribution system costs.

(2) The six private water companies, which include GNR Corporation, Green Valley Water Company, Hideaway Hills Water Company, Lorna Domestic Water LLC, Skyview Acres Water Company, and Two Rivers Water Association, all signed a 5-year contract beginning July 1, 2016 with a renewal option for another 5 years.

Note: Totals may not foot due to rounding.

Source: City of Portland

The Tualatin Valley Water District (“TVWD”) is among those wholesale customers with a contract through June 30, 2026. However, TVWD is partnering with the cities of Hillsboro and Beaverton to develop an alternative source of supply from the Willamette River. When the alternative source of supply is developed, TVWD and other wholesale customers may opt to utilize the new source of supply and reduce or even eliminate purchases from the City. The long-range forecast assumes TVWD will not be a wholesale customer beginning in FY 2026-27. TVWD has indicated that it may use the City as an emergency supply but that is not included in the extended forecast.

Preliminary discussions of a new wholesale agreement with other wholesale customers have begun. Discussions include the City serving as an emergency supplier to non-wholesale water purveyors in the Portland region.

## Retail and Wholesale Demand

The number of retail customer accounts and demand has remained stable, and retail consumption has averaged 25.3 million ccf over the last five fiscal years. (See Table 5.) The Bureau has aligned its annual demand projections within this historical trend.

Wholesale water demand is based on guaranteed water quantities requested by each customer.

**Table 5**  
**CITY OF PORTLAND, OREGON**  
**Water Bureau**  
**Historical Consumption (ccf)**

<b>Fiscal Year Ending June 30</b>	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>
<b>TOTAL RETAIL CUSTOMERS</b>	25,700,000	25,900,000	24,700,000	25,500,000	24,700,000
<b>WHOLESALE CUSTOMERS</b>					
Tualatin Valley Water District	6,694,702	7,412,974	7,618,976	8,315,151	7,931,242
Rockwood Water PUD	3,040,125	2,987,030	3,003,143	3,012,777	2,924,730
City of Gresham	3,018,577	2,973,719	2,839,686	2,863,252	2,897,721
City of Tualatin	2,275,654	2,114,692	2,066,186	2,187,379	2,276,974
City of Tigard <sup>(1)</sup>	2,514,233	2,093,844	-	-	-
West Slope Water District	566,461	588,420	555,560	608,843	603,716
Raleigh Water District	272,749	295,775	241,771	261,272	256,064
City of Sandy	229,487	231,035	206,238	222,495	231,228
Palatine Hill Water District	183,588	188,578	158,148	180,386	188,152
Lake Grove Water District	176,825	143,140	179,480	212,040	172,827
Pleasant Home Water District	78,530	79,245	75,785	78,240	77,315
Lusted Water District	72,134	78,519	68,517	74,342	71,041
Valley View Water District	67,399	73,287	58,742	62,700	75,106
Burlington Water District	14,780	16,156	18,820	17,200	16,755
Six private water companies <sup>(2)</sup>	15,707	18,672	17,932	16,955	16,167
<b>Total Wholesale Customers</b>	19,220,951	19,295,086	17,108,984	18,113,032	17,739,038
<b>Grand Total</b>	44,920,951	45,195,086	41,808,984	43,613,032	42,439,038

(1) The City of Tigard Regional Water Sales Agreement terminated on June 30, 2016.

(2) Six private water companies include GNR Corporation, Green Valley Water Company, Hideaway Hills Water Company, Lorna Domestic Water LLC, Skyview Acres Water Company, and Two Rivers Water Association. In FY 2014-15, Skyview Acres Water Company purchased water from City of Sandy.

Note: Totals may not foot due to rounding.

Source: *City of Portland*

## **Rates and Rate Setting**

Section 11-105 of the City Charter authorizes the City Council to fix fees and charges for connection to and use of the Water System. Water user fees and connection charges are formally reviewed every year by the Bureau. Rates required to support proposed activities for the next year are submitted by the Bureau Administrator to the City Council for review and approval. The rate setting process is done in tandem with the budget process.

Rates and charges for water services are established annually based, in part, upon cost of service principles and methodologies recommended by the American Water Works Association (the "AWWA"). The process used by the Bureau follows the Commodity Demand method promulgated by the AWWA. Under this approach using a rate model developed for the Bureau by Raftelis Financial Consultants, Inc. in 2006, the Water System costs are allocated to customers based on their average and peak water demand characteristics and use of the system.

Under the wholesale water sales agreements, wholesale rates are determined according to a complex set of variables and methodologies. Each wholesale customer's rate is determined based on some variables that are specific to that customer, as well as some variables that apply to all the wholesale customers. Each wholesale customer has an annual guaranteed purchase quantity (i.e., "take-or-pay" quantity) that equals or may exceed the prior year's guaranteed quantity, but may not be less than the prior quantity without permission of the Bureau. Each customer also selects its seasonal and maximum-day peak-demand quantities. Costs are allocated to each wholesale customer based on these various demand amounts and on the specific Water System assets that the respective wholesale customers use. Other variables impacting all wholesale customers are the Bureau's budget and an index of municipal bond rates. The rates are then calculated for each wholesale customer on an annual basis.

Retail rates are then established based on the residual financial requirements of the Water System.

The Bureau received approval from the State of Oregon Water Resources Department in 2010 for the City's Water Management and Conservation Plan (the "WMCP"). The WMCP final order required the Bureau to perform a comprehensive study of conservation rate structure options and determine whether a change in rate structure is desirable or necessary. The Bureau completed a conservation rate structure study in June 2013. The study results indicated that changes in City's water rate structure were unlikely to produce significant additional reductions in water use by City customers. Based on the study results, the City does not plan to change its water rate structure at this time. The City submitted to the Oregon Water Resources Department a five-year progress report as required under Oregon Administrative Rule 086-0120(4) by May 25, 2015.

Tables 6 and 7 summarize the Bureau's historical rates and water monthly bills for various customers as well as a comparison of residential monthly water bills for various systems within the State and the nation.

**Table 6**  
**CITY OF PORTLAND, OREGON**  
**Water Bureau**  
**Historical Water Rates**

<b>Fiscal Year Ending June 30</b>	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>
<b>WATER USAGE RATES</b>					
Retail Volume Rate (per ccf) <sup>(1)</sup>	\$3.682	\$3.940	\$4.216	\$4.499	\$4.890
<b>BASE CHARGE (Monthly Rate)<sup>(2)</sup></b>					
Quarterly Read Customer	\$11.13	\$11.91	\$12.75	\$13.61	\$14.79
Monthly Read Customer	\$33.40	\$35.74	\$38.25	\$40.82	\$44.37
<b>MONTHLY WATER BILLS</b> <b>(based on usage indicated below)</b>					
Residential (5ccf) <sup>(3)</sup>	\$29.54	\$31.61	\$33.83	\$36.11	\$39.24
Medium Commercial (100 ccf) <sup>(3)</sup>	\$401.60	\$429.74	\$459.85	\$490.72	\$533.37
Large Commercial (20,000 ccf) <sup>(3)</sup>	\$73,673	\$78,836	\$84,358	\$90,021	\$97,844
Low-Income Residential (5 ccf) <sup>(4)</sup>	\$14.77	\$15.80	\$16.90	\$18.06	\$19.62
Extremely Low-Income Residential (5 ccf) <sup>(5)</sup>					\$7.84

(1) Applies to substantially all retail customers.

(2) The base charge is a fixed amount per bill; customers billed quarterly pay the same fixed charge as customers billed monthly.

(3) Residential customers are charged the Quarterly Read Customer Base Charge. Commercial customers are charged the Monthly Read Customer Base Charge.

(4) The low income discount is 50 percent of a 5 ccf bill.

(5) The extremely low-income discount is 80 percent of a 5 ccf bill. This discount was added in FY 2018-19 and is for single-family residential customers that receive less than 30 percent of the median family income based on City of Portland or State levels.

Source: City of Portland

**Table 7**  
**CITY OF PORTLAND, OREGON**  
**Water Bureau**  
**Comparison of Residential Monthly Water Bills as of July 1, 2019**

**Regional**

<b>WATER UTILITY</b>	<b>Typical Residential</b>
Lake Oswego, OR	\$59.32
Bellevue, WA	56.10
Gresham, OR	49.50
Tacoma, WA	42.20
<b>PORTLAND, OR<sup>(1)</sup></b>	42.14
Seattle, WA (off-peak)	41.92
Hillsboro, OR	34.34
Bend, OR	32.91
Olympia, WA	28.38
Vancouver, WA	27.81

**National**

<b>WATER UTILITY</b>	<b>Typical Residential</b>
Sacramento, CA (unmetered)	\$66.95
San Francisco, CA	57.17
Honolulu, HI	51.02
Atlanta, GA	50.77
<b>PORTLAND, OR<sup>(1)</sup></b>	42.14
Kansas City, MO	39.82
Cincinnati, OH	29.96
Washington, DC	29.75
Cleveland, OH	27.98

(1) Calculations are based on rates in effect as noted, and the City's rates are effective July 1, 2019, through June 30, 2020.

*Source: City of Portland, Portland Water Bureau*

## System Development Charges

A System Development Charge (“SDC”) is levied by the Bureau for each new water service connected to the Water System inside the City boundaries. The Bureau’s SDC is in accordance with ORS 223.297-314, and is a reimbursement fee based on the estimated replacement cost of existing water facilities, less depreciation. The amount charged is dependent on the size of the service with larger services paying a greater amount based on the capacity of the meter. Services dedicated to fire flow and temporary construction services do not pay an SDC. FY 2018-19 SDC revenues were \$5.3 million, which constitutes about three percent of the Bureau’s overall revenue. SDCs are included as Capital Charges pursuant to the Master Second Lien Bond Declaration.

**Table 8**  
**CITY OF PORTLAND, OREGON**  
**Water Bureau**  
**FY 2019-20 SDC Charge by Meter/Service Size**

Size of Meter/Service	Charge
5/8”	\$3,062
3/4”	4,593
1”	7,655
1-1/2”	15,311
2”	24,497
3”	45,932
4”	76,553
6”	153,107
8”	244,970
10”	440,334

*Source: City of Portland*

Beginning with the FY 1999-00 rate ordinance, City Council approved an Affordable Housing SDC Fee Waiver. For any new qualified residential construction that meets certain affordability requirements, the entire SDC can be waived for a 5/8” metered service. If a 3/4” metered service is requested, only the SDC dollar amount for the 5/8” metered service is waived. Multi-family housing SDC waivers are also available if certain affordability requirements are met. Preliminary FY 2018-19 fee waivers (including accessory dwelling units waivers) totaled \$979,694. Qualified accessory dwelling units also receive SDC waivers FY 2018-19 accessory dwelling unit SDC waivers were \$643,523. Loss of these revenues is made up through general water retail rates and charges.

## Billings and Collections

The Bureau provides billing and collection for water, sewer, and stormwater services. The City uses a Cayenta Utilities billing system, purchased in April 2006, to serve the Bureau and the City’s Bureau of Environmental Services. Billing for most retail water customers (about 178,000) is on a quarterly cycle. A monthly statement option is available for qualified customers billed on a quarterly basis. Currently, more than 22,600 customers participate in the monthly statement option. In addition, more than 7,600 large retail commercial accounts, multi-family users, and wholesale purveyors are billed on a monthly basis.

A financial assistance program for water, sewer, and stormwater services is available to retail residential in-city customers with gross monthly household incomes at or below 60 percent of the greater of the City of Portland or State of Oregon median family income. For FY 2018-19, assistance included a flat quarterly bill discount for water customers of \$58.85, crisis assistance vouchers (maximum of \$500 per year, including \$167 for water and \$333 for sewer), in-home plumbing repair assistance for owner-occupied properties up to \$2,800, and free conservation devices. In addition, a Utility Safety Net Program is available to ratepayers as a last resort to prevent shutoff of service should they experience a significant change in household income due to employment, medical, or other emergencies. Beginning in FY 2018-19 customers with gross monthly household incomes at or below 80 percent of the median family income qualify for a flat quarterly bill discount of \$94.20 for water. Also new in FY 2018-19 is a pilot program to provide financial assistance to multifamily residents who do not receive a water bill through a partnership with Home Forward’s Short-Term Rent Assistance program (maximum of \$500 per year, \$167 funded by the Bureau and \$333 funded by the Bureau of Environmental Services).

Most water bills are collected with the payment for sewer and stormwater service. When a bill for water, sewer, or stormwater service becomes delinquent (21 days after billing) a reminder notice is sent on day 35. Additional notices are sent during an eight-week period. After eight weeks, services are terminated if the bill has not been paid. If the customer is still in arrears at the termination date, but is in contact with the Bureau, the City may set up special payment arrangements. Setting up payment arrangements rather than shutting off water service may be in the best interest of both the City and the customer to continue water service. Uncollectable accounts made up less than one percent of water sales revenue in FY 2018-19.

In recent years, a number of efficiencies have been added to the Bureau's billing and collection system, including the ability for customers to make payments electronically and over the phone through an automated system as well as the ability for customers to set their payment arrangements online themselves rather than having to call and speak with a representative. The Bureau recently finalized a bill presentment contract that will outsource bill printing and presentment for both paper and electronic bills. This will enhance Bureau resiliency and mitigate risk by having multiple offsite locations capable of handling billing and presentment. The Bureau is working to fully implement the contract by early 2020.

## **REGULATORY UPDATES**

### **Requirements for Treatment**

The City entered into a Bilateral Compliance Agreement with the Oregon Health Authority ("OHA") in December 2017, which establishes a 10-year compliance schedule to build and begin operating a filtration water treatment facility to remove *Cryptosporidium* from the Bull Run Watershed drinking water supply.

On December 12, 2018, the City Council adopted Resolution 37402 to accept the Water Bureau's preferred alternatives for the filtration plant, including a capacity range of 145 MGD to 160 MGD; a plant location at Carpenter Lane; and a preferred filtration technology of granular media filtration. The initial cost estimate, based on 2017 dollars, was \$500 million and is included in the Bureau's 2019-20 Five-Year Capital Improvement Plan and Five-Year Financial Plan.

On November 27, 2019, the City Council adopted Resolution 37460 setting priority values, expectations and the recommended option to guide the design and implementation of the Watershed filtration projects (the "Recommended Option"). The Recommended Option includes target capacity of 145 MGD; conventional treatment including flocculation, sedimentation, and filtration; ozone; clearwell sized for operational flexibility; and two pipelines into and out of the filtration facility. The Recommended Option is estimated to cost approximately \$820 million based on 2019 dollars. The increased estimated cost is not included in the Bureau's 2019-20 Five-Year Capital Improvement Plan or Five-Year Financial Plan. The Bureau estimates that the higher cost of the project will translate to increases in retail rates that are greater than the current FY 2019-20 forecast rates, as well as beyond the current forecast period.

The EPA has invited the City to apply for the Water Infrastructure Finance and Innovation Act ("WIFIA") loan for the filtration project. WIFIA will loan up to 49 percent of total estimated project costs with flexible financial terms and a single fixed rate established equal to the US Treasury Rate of similar maturity at closing. The Bureau plans to submit the WIFIA application to EPA by April 2020. The Bureau will incorporate WIFIA financing in future financial planning and rate forecasts after a loan agreement with EPA has been executed.

The federal Surface Water Treatment Rule and the Oregon Administrative Rules require unfiltered water systems with filtration avoidance exemptions to perform annual reporting of the system's Watershed control programs. The Bureau has committed to continued monitoring for *Cryptosporidium*, maintaining protections within the Watershed, and coordinating with public health officials to maintain public health protection until a filtration treatment facility is online.

### **Requirements for Uncovered Finished Drinking Water Reservoirs**

The LT2 Rule also requires changes to how uncovered finished drinking water reservoirs are utilized, managed, or operated. The rule requires that water systems with uncovered finished water reservoirs cover the reservoirs or provide treatment at the outlets of the reservoirs to inactivate *Cryptosporidium*, *Giardia* and other pathogens. The EPA and the OHA have each separately indicated to the City that there is no variance option for compliance with the uncovered drinking water reservoir requirement.

The Bureau currently has one uncovered reservoir, Washington Park Reservoir 3, which must be covered by December 31, 2020. This project is actively under construction and is expected to meet this deadline for the reservoir construction and commissioning.

## Lead and Copper Rule

The City has also been working with OHA to further reduce exposure to lead in Portland. In 2017, OHA approved the City's Improved Corrosion Control Treatment schedule. The design of a new Corrosion Control Treatment facility is underway with scheduled completion by 2022. The Bureau's FY 2019-20 Five-Year Capital Improvement Plan includes \$20 million for the treatment facility and is reflected in forecasted rates. Until improved Corrosion Control Treatment is online, the Bureau will be implementing interim measures to further reduce exposure to lead in water at customer taps in addition to meeting the education and outreach requirements of the Lead and Copper Rule ("LCR").

On November 13, 2019, the proposed changes to the LCR were published in the Federal Register with public comment period through January 13, 2020. The Bureau is currently reviewing the proposed changes to determine how they may impact Water System operation, if any. Therefore, the financial forecast does not include any potential financial impacts related to changes to the LCR. The final rule is anticipated to be published in Summer 2020 with revisions to take effect approximately 3 years after publication.

## OTHER FINANCIAL INFORMATION

### Outstanding Water System Debt

As of December 31, 2019, the City had a total of \$696,630,000 of Water System revenue bonds outstanding, as shown in the following table. The table does not include delivery of Second Lien Water System Revenue Refunding Bonds, 2020 Series A (the "2020 Series ABonds"), which are expected to be issued on February 3, 2020, and used to defease and redeem the remaining maturities of the First Lien Water System Revenue and Refunding Bonds, 2010 Series A (the "2010 Series A Bonds").

**Table 9**  
**CITY OF PORTLAND, OREGON**  
**Water Bureau**  
**Outstanding Water System Revenue Bonds**  
**As of December 31, 2019<sup>(1)</sup>**

Issue	Dated	Final Maturity	Original Par Amount	Amount Outstanding
<b>First Lien Water System Revenue Bonds</b>				
2010 Series A <sup>(2)</sup>	02/11/10	05/01/35	\$73,440,000	\$55,740,000
2011 Series A	03/22/11	05/01/36	82,835,000	65,605,000
2012 Series A	08/02/12	04/01/37	76,510,000	60,940,000
2014 Series A	12/16/14	05/01/39	84,975,000	73,110,000
2016 Series A	12/15/16	04/01/41	168,525,000	145,950,000
<i>Subtotal</i>			\$486,285,000	\$401,345,000
<b>Second Lien Water System Revenue Bonds</b>				
2013 Series A	05/02/13	10/01/37	\$253,635,000	\$183,280,000
2019 Series A	10/22/19	05/01/44	112,005,000	112,005,000
<i>Subtotal</i>			\$365,640,000	\$295,285,000
<b>TOTAL</b>			\$851,925,000	\$696,630,000

(1) Does not include delivery of 2020 Series A Bonds, which are expected to be issued on the February 3, 2020, and will be used to defease and redeem the 2010 Series A Bonds.

(2) Expected to be refunded by the 2020 Series A Bonds on February 3, 2020.

Source: City of Portland



## Debt Service Requirements

The following table represents the Bureau's annual debt service requirements on First Lien and Second Lien Bonds as of December 31, 2019. As noted above, the table does not include delivery of Second Lien Water System Revenue Refunding Bonds, 2020 Series A Bonds, which are expected to be issued on February 3, 2020, will be used to defease and redeem the remaining maturities of the First Lien Water System Revenue and Refunding Bonds, 2010 Series A.

**Table 10**  
**CITY OF PORTLAND, OREGON**  
**Water Bureau**  
**Annual Debt Service Requirements<sup>(1)(2)</sup>**

<b>Fiscal Year Ending 30-Jun</b>	<b>Outstanding First Lien Bonds</b>	<b>Outstanding Second Lien Bonds</b>	<b>Total Debt Service</b>
2020	\$38,105,775	\$23,064,213	\$61,169,988
2021	38,116,775	25,492,100	63,608,875
2022	30,634,025	26,601,100	57,235,125
2023	30,629,025	26,609,100	57,238,125
2024	30,638,225	26,610,975	57,249,200
2025	30,634,525	22,398,225	53,032,750
2026	30,627,925	22,398,975	53,026,900
2027	30,630,975	22,398,725	53,029,700
2028	30,632,925	22,400,725	53,033,650
2029	30,636,125	22,399,375	53,035,500
2030	30,638,888	22,395,150	53,034,038
2031	30,629,638	22,391,150	53,020,788
2032	30,630,738	22,398,500	53,029,238
2033	30,627,975	17,755,350	48,383,325
2034	30,629,425	17,758,750	48,388,175
2035	25,928,425	17,761,800	43,690,225
2036	21,110,488	17,759,350	38,869,838
2037	15,452,975	17,755,350	33,208,325
2038	10,975,925	17,758,600	28,734,525
2039	10,969,600	7,832,000.00	18,801,600
2040	5,619,000	7,836,000.00	13,455,000
2041	5,621,200	7,834,000.00	13,455,200
2042	-	7,836,750.00	7,836,750
2043	-	7,833,250.00	7,833,250
2044	-	7,833,000.00	7,833,000
<b>TOTAL</b>	<b>\$570,120,575</b>	<b>\$461,112,513</b>	<b>\$1,031,233,088</b>

(1) Totals may not foot due to rounding.

(2) Excludes debt service on Second Lien Water System Revenue Refunding Bonds, 2020 Series A, which will refund the First Lien Water System Revenue and Refunding Bonds, 2010 Series A.

Source: City of Portland

**DEBT SERVICE RESERVE ACCOUNTS AND RESERVE CREDIT FACILITIES**

**First Lien Bonds**

Each subaccount within the Revenue Bond Reserve Account for First Lien Water Revenue Bonds that were issued before September 1, 2016, is fully funded at the Reserve Requirement with cash as shown in the table below. The Reserve Requirement for these Series of First Lien Bonds is defined as the Tax Maximum for that Series. The City elected not to create a subaccount in the Revenue Bond Reserve Account to secure the First Lien Water System Revenue and Refunding Bonds, 2016 Series A.

On February 3, 2020, the City expects to refund the 2010 Series A Bonds with the delivery of the 2020 Series A Bonds. The 2010 Series A Reserve Subaccount will be contributed to the refunding escrow established to refund and defease the outstanding 2010 Series A Bonds.

**Table 11**  
**CITY OF PORTLAND, OREGON**  
**Reserve Subaccounts for First Lien Bonds <sup>(1)</sup>**

<b>Series</b>	<b>Date of Issue</b>	<b>Maturity Date</b>	<b>Cash Funded Reserve Amount</b>
2010 Series A	02/11/10	05/01/35	\$4,826,425
2011 Series B	03/22/11	05/01/36	\$5,659,388
2012 Series A	08/02/12	04/01/37	\$4,482,938
2014 Series A	12/16/14	05/01/39	\$5,355,275

(1) As of December 31, 2019.  
*Source: City of Portland*

**Second Lien Bonds**

The City has created the First Subaccount in the Second Lien Bond Reserve Account, which secures the Second Lien Water System Revenue and Refunding Bonds, 2013 Series A (the “2013 Series A Bonds”). The First Subaccount is funded with cash in the amount of \$9,388,862.50. The 2013 Series A Bonds fully mature on October 1, 2037.

## **CITY FINANCIAL AND OPERATING INFORMATION**

### **BASIS OF ACCOUNTING**

The governmental fund types are reported using the current financial resources measurement focus and the modified accrual basis of accounting. The economic resources measurement focus and the accrual basis of accounting is used for all proprietary fund and fiduciary fund financial statements. The City's accounting practices conform to Generally Accepted Accounting Principles (GAAP) as interpreted by the Governmental Accounting Standards Board (the "GASB").

### **FISCAL YEAR**

July 1 to June 30.

### **AUDITS**

The Oregon Municipal Audit Law (ORS 297.405 - 297.555) requires an audit and examination be made of the accounts and financial affairs of every municipal corporation at least once each year. The audit shall be made by accountants whose names are included on the roster prepared by the State Board of Accountancy. Moss Adams LLP has performed auditing services for FY 2002-03 through FY 2018-19.

A complete copy of the City's FY 2018-19 audit is available on the EMMA system for municipal securities disclosure established by the MSRB and accessible at <http://emma.msrb.org>.

Excerpts of the City's audited financial statements for the Water Fund on a GAAP basis are found in the Appendix.

## **FINANCIAL REPORTING AND BUDGETING**

### **Financial Reporting**

The City has been awarded the Government Finance Officers Association ("GFOA") Certificate of Achievement for Excellence in Financial Reporting every year since 1982. According to the GFOA, the Certificate of Achievement is the "highest form of recognition in the area of governmental financial reporting." To be awarded the certificate, a governmental unit must publish an easily readable and efficiently organized comprehensive financial report whose content conforms to program requirements and satisfies both generally accepted accounting principles and applicable legal requirements.

### **Budget Process**

The City prepares annual budgets for all its bureaus and funds in accordance with provisions of Oregon Local Budget Law. The law provides standard procedures for the preparation, presentation, administration, and public notice for public sector budgets. At the outset of the process, the Mayor or the full City Council reviews overall goals, establishes priorities, and provides direction to bureaus. The City Council conducts an extensive public information process to obtain direct public input on City service priorities, and most bureaus include key stakeholders in developing their budget requests.

In addition to this public outreach process, in January 2014, the City Council approved a five-year contract with the Citizens' Utility Board of Oregon (the "CUB"), an independent consumer advocacy nonprofit organization, to provide input regarding the City's water and sewer bureaus on behalf of residential customers. The City Council renewed the partnership agreement with the CUB in 2019. The CUB provides recommendations to the City Council on capital spending, rates, and customer service issues. On June 10, 2015, the City Council approved creation of the Portland Utility Board, a new citizen oversight panel that replaced the Portland Utility Review Board and budget advisory committees for the Portland Water Bureau and Bureau of Environmental Services. The Portland Utility Board, which is staffed by a dedicated financial analyst, advises the City Council regarding operations of the two utility bureaus, including development of bureau budgets and financial plans, capital spending, and rate setting.

A five-year General Fund financial forecast, which serves as the basis for determining resources available for budgeting, is also provided to the City Council along with budget requests. Major City bureaus generally prepare and submit five-year financial plans and capital improvement plans. The City Budget Office, which was created by the City Council in December 2012, coordinates the budget development process.

Bureau budget requests are reviewed by the Mayor and Council members, as well as a panel of community advisors. The Mayor develops a Proposed Budget that addresses City Council priorities, public input, and balancing requirements. Following presentation of the Proposed Budget, a community hearing is scheduled wherein public testimony is taken. A budget summary and notice of hearing are published prior to the hearings. The City Council, sitting as the Budget Committee, considers the testimony from the community and can alter the budget proposal before voting to approve the budget.

The City Council transmits the Approved Budget to the Multnomah County Tax Supervising and Conservation Commission (the "TSCC"), an oversight board appointed by the governor, for public hearing and review for compliance with budget law. Upon certification by the TSCC, the City Council holds a final public hearing prior to adoption. Final adoption of the City's budget is required to be through a vote of the City Council no later than June 30. All committee meetings and budget hearings are open to the public.

## **INSURANCE**

The City is exposed to various risks of loss related to theft, damage and destruction of assets, tort claims (general and fleet liability), injuries to employees, acts of terrorism, and natural disasters. The City is self-insured for workers' compensation, fleet and general liability claims and certain employees' medical coverage in internal service funds.

The City estimates liability for incurred losses for reported and unreported claims for workers' compensation, general and fleet liability and employee medical coverage (included in accrued self-insurance claims in the combined statement of net position). Workers' compensation, general and fleet liability estimates are primarily based on individual case estimates for reported claims and through historical data for unreported claims as determined by the City's Risk Management Division and independent actuarial studies. Liabilities are based on an estimated ultimate cost of settling claims, including effects of inflation and other societal and economic factors. The estimated liability is then discounted by the City's expected rate of return and anticipated timing of cash outlays to determine present value of the liability. For FY 2018-19, the expected rate of return used was 2.1 percent. For FY 2019-20, and subsequent years, the expected rate of return used was 2.3 percent and 2.35 percent respectively. The Bureau of Human Resources and the employee benefits consultant determines relevant employees' medical coverage estimates.

The City provides insurance coverage deemed as adequate, appropriate, and actuarially sound. It meets all the City's anticipated settlements, obligations and outstanding liabilities. An excess liability coverage insurance policy covers individual claims in excess of \$1 million to policy limits, police law enforcement claims in excess of \$2.5 million for claims occurring after November 12, 2013, to policy limits and an excess workers' compensation coverage insurance policy covers claims in excess of \$850,000 for occurrences after July 1, 2012. The City purchases commercial insurance for claims in excess of coverage provided by the self-insurance fund. The City's limits of coverage on the excess liability policy is \$10 million per claim above the self-insurance retention for covered torts. The City does not have any claims reserved above the current self-insurance retention and excess layer. In the City's last three excess renewals, there have been no material changes in retention, coverage or conditions. Furthermore, current levels of accrued claims and case reserve estimates are viewed as reasonable provisions for expected future losses.

Per Oregon Revised Statute ("ORS") 30.272 limitations on liability of public bodies for personal injury to any single claimant for causes of action arising on or after July 1, 2019, and before July 1, 2020, limitations are \$749,000 for single claimant and \$1.498 million for multiple claimants.

Per ORS 30.273 limitations on liability of public bodies for property damage arising on or after July 1, 2019 and before July 1, 2020, limitations are \$122,900 for single claimant and \$614,300 for multiple claimants.

Liabilities are reported in the applicable fund when it is probable that a loss has occurred and the amount of loss can be reasonably estimated. Liabilities include an amount for claims that have been incurred but not reported. The result of the process to estimate the claims liability is not an exact amount as it depends on many complex factors, such as inflation, changes in legal doctrines, and damage awards. Accordingly, claims are reevaluated for effects of inflation, recent claim settlement trends (including frequency and amount of pay-outs), and other economic and social factors.

The estimate of claims liability also includes amounts for incremental claim adjustment expenses related to specific claims and other claim adjustment expenses regardless of whether any are allocated to specific claims. Estimated recoveries, from salvage or subrogation for example, are another component of the claims liability estimate. Changes in the balances of claims liabilities during the past two years are as follows:

	<b>FY 2018-19</b>	<b>FY 2017-18</b>
Balance, beginning of fiscal year	\$31,721,400	\$28,068,818
Incurred claims and adjustments	66,624,554	64,839,071
Claim cash payments	(65,925,043)	(61,186,489)
Unpaid claims, end of fiscal year	<u>\$32,420,911</u>	<u>\$31,721,400</u>

## **CYBERSECURITY**

The City, like other large public and private entities, relies on a large and complex technology environment to conduct its operations, and consequently faces the threat of cybersecurity incidents. Cybersecurity incidents could result from unintentional events, or from deliberate attacks by unauthorized entities or individuals attempting to gain access to the City’s information technology systems to misappropriate assets or information or to cause operational disruption and damage.

To reduce and mitigate the risk of business operations impact and/or damage from cybersecurity incidents, the City has invested in multiple forms of cybersecurity and operational safeguards, including adopting the National Institute of Standards and Technology Cybersecurity Framework to support, maintain, and prioritize securing critical infrastructure and data systems, manage risk, and improve cybersecurity event detection and remediation. Under the leadership of the City’s Chief Information Security Officer, the City’s Bureau of Technology Services has established a cybersecurity team which is responsible for identifying, evaluating, responding, and reporting on information security risks in a manner that meets compliance and regulatory requirements, and which aligns with and supports the cybersecurity risk posture of the City. Additionally, all information security related standards, policies and administrative rules are reviewed annually.

As a recipient and provider of personal and confidential information, the City has been the subject of cybersecurity incidents that have resulted in, or could have resulted in, adverse consequences to the City’s confidential information and technologies and that required a response action to mitigate potential consequences. For example, during 2018, the City was subject to several phishing attacks against the City’s Microsoft-hosted email system which briefly disrupted some email services and exposed several employee e-mail accounts to unauthorized entities or individuals. The scope of impact was limited to a small number of accounts and the attacks were quickly contained and mitigated. The City has no evidence that any City or individual’s confidential information was exfiltrated, but there is a possibility of exfiltration. The City has thoroughly investigated these incidents and where appropriate, has offered the potentially impacted individuals a year of free credit monitoring. Since the occurrence of those attacks, the City has implemented additional information security controls to reduce the likelihood of success of future phishing attacks.

The City’s cybersecurity and operational safeguards are periodically internally tested and assessed by external auditors, however the City cannot assure that these measures will prevent all potential cybersecurity attacks, and accompanying disruptions and costs. To offset some of the potential financial costs and risks associated with a breach, the City’s Risk Management Division obtained a cyber-liability insurance policy. The policy offers liability coverage, as well as coverage for certain business expenses related to cybersecurity incidents, such as business interruption expenses and costs to recover, restore or replace lost data. The policy does not cover “social engineering losses,” such as losses resulting from bad actors manipulating people into performing actions such as wiring finances to banks. These claims are covered separately under the City’s Crime Policy.

## **LABOR RELATIONS**

The City employs approximately 6,637 full-time equivalent personnel. Of these, 4,554 are represented by collective bargaining units.

The City is currently negotiating successor agreements with the Portland Fire Fighters Association (“PFFA”) and the Bureau of Emergency Communications (“BOEC”). Each of the current agreements expired on June 30, 2019. Neither union is permitted to strike, but each has the option of taking contract negotiations to binding arbitration. The PFFA declared a bargaining impasse on November 1, 2019, and filed a declaration of impasse with the State Employment Relations Board as negotiations had occurred for at least 150 days, been mediated for at least 15 days, and no agreement had been reached. The City is scheduling dates for arbitration, which currently are expected to occur beginning in April 2020. Additionally, negotiations between the City and BOEC have occurred for at least 150 days and the union has now requested to move to mediation. The first session occurred on December 17, 2019, and a second session has been scheduled for March 2020.

**Table 12**  
**CITY OF PORTLAND, OREGON**  
**Bargaining Units and Contract Status**

<b>Collective Bargaining Unit</b>	<b>Number of Employees<sup>(1)</sup></b>	<b>Contracts &amp; MOUs Expire</b>
District Council of Trade Unions (DCTU) <sup>(2)</sup>	1,173	June 30, 2020
Portland Police Association	830	June 30, 2020
Professional and Technical Employees Local 17	836	June 30, 2021
Portland Fire Fighters Association	653	June 30, 2019 <sup>(3)</sup>
Laborers' International Union of North America Local 483 - Portland City Laborers	630	June 30, 2021
Laborers' International Union of North America Local 483 - Parks and Recreation	204	June 30, 2021
Bureau of Emergency Communications - PPA	108	June 30, 2019 <sup>(3)</sup>
Laborers' International Union of North America Local 483 - Seasonal Maintenance Workers	91	June 30, 2022
Portland Police Commanding Officers Association (PPCOA)	29	June 30, 2022

(1) Number of employees refers to number of filled full-time equivalent positions.

(2) DCTU includes DCTU IBEW Local 48; DCTU- Auto Mechanics, District Lodge 24; DCTU-Operating Engineers Local 701; DCTU-Painters and Allied Trades, District Council 5; and DCTU Plumbers Local 290.

(3) Currently in negotiation.

Source: *City of Portland*

## **PENSION PLANS: OREGON PUBLIC EMPLOYEES RETIREMENT SYSTEM**

### **Overview**

The Oregon Public Employees Retirement System (“PERS” or “the Statewide PERS System”) provides statewide defined benefit retirement plans for units of state government, political subdivisions, community colleges, and school districts. Most public employers in Oregon, including the City, participate in PERS. PERS is administered under ORS Chapter 238, Chapter 238A, and Internal Revenue Code Section 401(a) by the Public Employees Retirement Board (the “PERS Board”). The PERS Board is responsible for setting policies and for providing administrative direction to PERS. Benefits provided through PERS are paid from the Oregon Public Employees’ Retirement Fund (“OPERF”). PERS is a cost-sharing, multiple-employer public employee retirement system.

City employees (other than certain fire and police personnel), after six months of employment, participate in one of three retirement pension benefit programs provided through PERS as described below. The three PERS pension programs include two closed defined benefit programs and one program that has features of both defined benefit and defined contribution plans. In a defined benefit plan, the investment risk for the plan assets is borne by the employer. In a defined contribution plan, the investment risk for the plan assets is borne by the employee. A combination of participating employer contributions (determined by the PERS Board based upon the results of actuarial valuations), investment earnings and employee-paid contributions (currently, for the City, six percent of salaries and nine percent for police and fire employees) fund these pension programs. See “—Employer Contribution Rates and Amounts” and “—PENSION PLANS: FIRE AND POLICE DISABILITY AND RETIREMENT FUND” below.

### **Benefit Programs**

Employees hired before January 1, 1996, are known as “Tier 1” participants. The retirement benefits applicable to Tier 1 participants are based on a defined benefit model. Tier 1 has a normal retirement age of 58 and, effective January 1, 2018, an assumed earnings rate guarantee of 7.20 percent. PERS maintains a “Tier One Rate Guarantee Reserve” which is credited with investment earnings in excess of the assumed earnings rate guarantee and used to offset the effects of investment earnings below the assumed earnings rate guarantee. As of June 30, 2019, the balance of this reserve was \$448.8 million. As of June 30, 2019, there were 18,971 active plan members, 128,177 retired plan members or their beneficiaries currently receiving benefits, and 7,655 inactive plan members entitled to but not yet receiving benefits, and 3,410 inactive plan members eligible for the refund value of their account only, for a total of 158,213 Tier One members in the Statewide PERS System.

Employees hired on or after January 1, 1996, and before August 29, 2003, are known as “Tier 2” participants. The Tier 2 program also provides a defined benefit but with lower expected costs to employers than under the Tier 1 benefit. There is no assumed earnings rate guarantee and Tier 2 has a higher normal retirement age of 60. As of June 30, 2019, there were 32,441 active plan members, 15,567 retired plan members or their beneficiaries currently receiving benefits, and 5,778 inactive plan members entitled to but not yet receiving benefits, and 9,788 inactive plan members eligible for the refund value of their account only, for a total of 63,574 Tier 2 members in the Statewide PERS System.

Employees hired on or after August 29, 2003, are participants in a successor retirement program to the Tier 1 and Tier 2 retirement programs (the “T1/T2 Pension Programs”) known as the Oregon Public Service Retirement Plan (“OPSRP”). OPSRP consists of a defined benefit plan and also offers the Individual Account Program (“IAP”), which offers a defined contribution benefit. As of June 30, 2019, there were 124,915 active plan members, 5,642 retired plan members or their beneficiaries currently receiving benefits, 5,868 inactive plan members entitled to but not yet receiving benefits, and 16,287 inactive plan members not eligible for refund or retirement, for a total of 152,712 OPSRP Pension Program members.

Effective January 1, 2004, all active Tier 1 and Tier 2 employees also became members of the IAP. Tier 1 and Tier 2 employees retain their existing T1/T2 Pension Program account, but member contributions are now deposited into the member’s IAP account, not into the member’s PERS account.

### **Apportionment of City Assets and Liabilities**

The City is pooled with the State of Oregon and other Oregon local government and community college public employers for its T1/T2 Pension Programs (the “State and Local Government Rate Pool” or “SLGRP”), and the SLGRP’s assets and liabilities are pooled. These assets and liabilities are not tracked or calculated on an employer basis or allocated to individual employers. The City’s portion of the SLGRP’s assets and liabilities is based on the City’s proportionate share of SLGRP’s pooled covered payroll. OPSRP’s assets and liabilities are pooled on a program-wide basis. These assets and liabilities are not tracked or calculated on an employer basis or allocated to individual employers. The City’s share of OPSRP’s assets and liabilities is based on the City’s proportionate share of OPSRP’s pooled covered payroll. The City’s proportionate liability of the T1/T2 Pension Programs and OPSRP may increase if other pool participants fail to pay their full employer contributions.

### **Employer Asset Valuation and Liabilities**

Oregon statutes require an actuarial valuation of the Statewide PERS System by a competent actuary at least once every two years. The current PERS actuary is Milliman, Inc. (“Milliman”). Under current practice, actuarial valuations are performed annually, but only valuations as of the end of each odd-numbered year are used to determine annual required employer contribution rates that employers will be required to pay to fund the obligations of T1/T2 Pension Programs, OPSRP and the PERS-sponsored Retirement Health Insurance Account Plan (“RHIA”). For a description of RHIA, see “OTHER POST-EMPLOYMENT RETIREMENT BENEFITS” below. Valuations are released approximately one year after the valuation date.

An employer’s unfunded actuarial liability (“UAL”) is the excess of the actuarially determined present value of the employer’s benefit obligations to employees over the existing actuarially determined assets available to pay those benefits. The following table shows certain methods and assumptions adopted by the PERS Board, which are the basis for the actuarial valuations.

**Table 13**  
**OREGON PUBLIC EMPLOYEES RETIREMENT SYSTEM**  
**Actuarial Assumptions and Methods**

ASSUMPTION/METHOD	2016 & 2017 VALUATIONS <sup>(1)</sup>	2018 & 2019 VALUATIONS <sup>(2)</sup>
Actuarial Cost Method:	Entry Age Normal	Unchanged
UAL Method: T1/T2 Programs	Level Percentage of Payroll over 20 years (fixed)	Unchanged
OPSRP	Level Percentage of Payroll over 16 years (fixed)	Unchanged
Asset Valuation Method:	Market Value <sup>(3)</sup>	Unchanged
Investment Rate of Return:	7.20%	Unchanged%
Payroll Growth Rate:	3.50%	Unchanged
Inflation Level:	2.50%	Unchanged
Contribution Rate Stabilization Method:	Contribution rate may increase or decrease by 3% of payroll or by 20% of the previous rate; whichever is greater, when an employer’s funded status is between 70% and 130%. At a funded status of 60% or less, or 140% or more, the limitation doubles to 6% of payroll or 40% of the previous rate, whichever is greater. At a funded status between 60% and 70% or 130% and 140%, the limitation increases in increments between 3%-6% of payroll or 20%-40% of the previous rate, whichever is greater.	Unchanged

(1) Assumptions and methods adopted by the PERS Board on July 28, 2017, that apply to actuarial valuations as of December 31, 2016, and December 31, 2017.

(2) Assumptions and methods adopted by the PERS Board on October 4, 2019 that apply to actuarial valuations as of December 31, 2018 and as of December 31, 2019 when released in the fall of 2020. See information regarding the one-time amortization of the unfunded actuarial liability as of December 31, 2019 as described in “PENION PLANS: OREGON PUBLIC EMPLOYEES RETIREMENT SYSTEM – Recent Developments Related to PERS.”

(3) Market value of assets reduced by value of assets in statutory reserves (contingency, capital preservation and rate guarantee reserves).

*Source: Oregon Public Employees Retirement System*

The PERS Board adopted the final actuarial assumptions and methods for the 2018 and 2019 actuarial valuations on October 4, 2019. Such adopted actuarial assumptions and methods remain largely unchanged from the actuarial assumptions and methods used for the 2016 and 2017 actuarial valuations, with the exception of the amortization of the 2019 UAL as described in Milliman released its 2016 valuation for the Statewide PERS System as of December 31, 2016 (the “2016 System Valuation”) on December 6, 2017, its 2017 valuation for the Statewide PERS System as of December 31, 2017 (the “2017 System Valuation”) on September 28, 2018, and its 2018 valuation for the Statewide PERS System as of December 31, 2018 (the “2018 System Valuation”) on December 12, 2019. These reports include system-wide actuarial valuations for the T1/T2 Pension Programs and OPSRP.

Milliman released the City’s individual 2016 valuation as of December 31, 2016, (the “2016 City Valuation”) on December 7, 2017, and its 2017 valuation as of December 31, 2017, (the “2017 City Valuation”) on October 17, 2018, and the City’s individual 2018 valuation as of December 31, 2018 (the “2018 City Valuation”) on December 12, 2019. These valuation reports provide the City’s portion of (a) the SLGRP based on the City’s proportionate share of the total SLGRP covered payroll as of the valuation date, (b) OPSRP based on the City’s proportionate share of total OPSRP covered payroll as of the valuation date, and (c) the RHIA based on the City’s proportionate share of the total RHIA covered payroll as of the valuation date.

The tables below provide historical summary valuation information for the Statewide PERS System and for the City.



**Table 14**  
**OREGON PUBLIC EMPLOYEES RETIREMENT SYSTEM**  
**Summary of Statewide PERS System Funding Levels**  
**(\$ in Millions) <sup>(1)</sup>**

<b>STATEWIDE PERS SYSTEM</b>				
<b>Calendar</b>	<b>Actuarial</b>	<b>Unfunded</b>		
<b>Year</b>	<b>Value of</b>	<b>Actuarial</b>	<b>Actuarial</b>	<b>Funded</b>
<b>Year</b>	<b>Assets (2)</b>	<b>Liability</b>	<b>Liability</b>	<b>Ratio (%)</b>
2009	\$43,238.8	\$56,810.6	\$13,571.8	76.1
2010	46,004.4	59,329.5	13,325.1	77.5
2011	43,238.8	61,198.4	17,959.6	76.1
2012 <sup>(3)</sup>	49,265.9	60,405.2	11,139.3	81.6
2013 <sup>(3)</sup>	54,090.1	62,593.6	8,503.5	86.4
2014 <sup>(4)</sup>	55,518.2	73,458.9	17,940.7	75.6
2015	54,365.8	76,196.6	21,830.8	71.3
2016	55,670.2	80,970.3	25,300.1	68.8
2017	61,764.9	84,056.1	22,291.2	73.5
2018	59,593.0	86,574.7	26,981.7	68.8

- (1) Composed of Tier 1/Tier 2 and OPSRP pensions but excluding retiree healthcare subsidies of RHIA.
- (2) Does not take into account offsets for deposits made by individual employers from bond proceeds or cash on hand in side accounts
- (3) Reflects the legislative changes enacted by the Oregon Legislative Assembly in 2013 (the “2013 PERS Bills”) to reduce future benefit payments, resulting in a reduction of the PERS unfunded actuarial liability by approximately \$5 billion.
- (4) In April 2015, the Oregon Supreme Court announced a decision on lawsuits challenging the provisions of the 2013 PERS Bills. The decision upheld the elimination of a benefit increase for out-of-state retirees but declared other benefit reductions unconstitutional as applied to benefits earned prior to the June 1, 2013 effective date of the 2013 PERS Bills.

*Source: Oregon Public Employees Retirement System*

**Table 15**  
**OREGON PUBLIC EMPLOYEES RETIREMENT SYSTEM**  
**Summary of City Funding Levels**  
**(\$ in Millions)<sup>(1)</sup>**

Calendar Year	Actuarial Value of Assets	Actuarial Liability	Unfunded Actuarial Liability	Funded Ratio (%)
2009	\$1,424.0	\$1,606.0	\$182.0	88.7
2010	1,499.8	1,672.5	172.7	89.7
2011	1,459.0	1,724.2	265.3	84.6
2012 <sup>(2)</sup>	1,624.8	1,744.3	119.5	93.2
2013 <sup>(2)</sup>	1,762.8	1,804.7	41.9	97.7
2014 <sup>(3)</sup>	1,844.1	2,210.1	366.0	83.4
2015	1,820.6	2,335.5	514.9	78.0
2016	1,891.4	2,540.2	648.8	74.4
2017	2,171.1	2,776.3	605.2	78.2
2018	2,202.1	3,048.8	846.8	72.2

(1) Composed of Tier 1/Tier 2 and OPSRP pensions but excluding retiree healthcare subsidies of RHIA. City information is calculated separately for the SLGRP and OPSRP using the City's payroll as a percentage of combined payroll of the respective rate pools. SLGRP values include pre-SLGRP and transition liabilities/surpluses created when the City joined the prior local government rate pool and the SLGRP.

(2) Reflects the legislative changes enacted by the Oregon Legislative Assembly in 2013 (the "2013 PERS Bills") to reduce future benefit payments, resulting in a reduction of the PERS unfunded actuarial liability by approximately \$5 billion.

(3) In April 2015, the Oregon Supreme Court announced a decision on lawsuits challenging the provisions of the 2013 PERS Bills. The decision upheld the elimination of a benefit increase for out-of-state retirees but declared other benefit reductions unconstitutional as applied to benefits earned prior to the June 1, 2013 effective date of the 2013 PERS Bills

Source: Oregon Public Employees Retirement System

The following table presents a history of the City’s member payroll, unfunded actuarial liability and ratio of unfunded actuarial liability to payroll.

**Table 16**  
**OREGON PUBLIC EMPLOYEES RETIREMENT SYSTEM**  
**City Payroll for PERS Members and Unfunded Actuarial Liability**

Calendar Year	Payroll	Unfunded Actuarial Liability	Unfunded Liability to Payroll Ratio
2009	\$303,851,551	\$182,019,126	60%
2010	307,538,429	172,726,579	56%
2011	303,508,135	265,267,189	87%
2012	311,688,601	119,477,128	38%
2013	313,291,592	41,882,231	13%
2014	335,113,826	365,964,877	109%
2015	350,158,915	514,861,639	147%
2016	362,850,562	648,861,639	179%
2017	384,409,335	605,231,941	157%
2018	434,168,788	846,761,641	195%

*Source: Oregon Public Employees Retirement System*

The funded status of the pension programs may change depending on the market performance of the securities that the OPERF is invested in, future changes in compensation and benefits of covered employees, demographic characteristics of members and methodologies and assumptions used by the actuary in estimating the assets and liabilities of PERS. Additionally, the market value of the investments held in the OPERF is determined using various sources.

### **State Investment Policy**

The Oregon State Treasury is the investment officer for the state of Oregon. Investment standards are established in ORS 293.726 and require funds to be managed as a prudent investor would do. The Oregon Investment Council (“OIC”) establishes policies for the investment and reinvestment of moneys in PERS investment funds. Policies are established based on the primary investment asset class of each investment manager. The OIC has approved the following asset classes for the OPERF: Short-Term Investing, Fixed Income, Real Estate, Public and Private Equities, and Alternative Investments. In addition, OPERF invests in the Opportunity Portfolio, which may be populated with investment approaches across a wide range of investment opportunities with no limitation as to asset classes or strategies. The target investment portfolio mix at market value was revised at the OIC meeting of April 24, 2019, to 32.5 percent global equity, 17.5 percent private equity, 20 percent fixed income, 12.5 percent real estate, 7.5 percent alternatives – illiquid, 7.5 percent alternatives – diversifying strategies and 2.5 percent risk parity.

The following table presents a 10-year history of investment returns for the OPERF.

**Table 17**  
**OREGON PUBLIC EMPLOYEES RETIREMENT FUND**  
**Oregon PERS Investment Returns<sup>(1)</sup>**

<b>Fiscal Year</b>	<b>Net</b>
<b>Ending June 30</b>	<b>Returns (%)</b>
2010	17.0
2011	22.3
2012	1.6
2013	12.7
2014	16.6
2015	4.3
2016	1.2
2017	11.9
2018 <sup>(2)</sup>	9.4
2019	6.5

(1) Total fund performance, excluding variable account.

(2) The Oregon Investment Council has reported that for the calendar year ending December 31, 2018, net returns were 0.5 percent. See “—Recent Developments Related to PERS” herein.

*Source: Oregon Public Employees Retirement Fund System Comprehensive Annual Financial Report for FYs 2009-10 through 2018-19*

The following table presents annualized investment returns over the most recent 1-year, 3-year and 5-year periods. Calculations were prepared using a time-weighted rate of return based on market rates in accordance with the Global Investment Performance Standards performance presentation standards.

**Table 18**  
**OREGON PUBLIC EMPLOYEES RETIREMENT FUND**  
**Annualized Investment Results<sup>(1)</sup>**

	<b>Annualized</b>		
Periods Ending June 30, 2019	<b>1-Year</b>	<b>3-Year</b>	<b>5-Year</b>
Total Portfolio, Excluding Variable	6.5%	9.3%	6.7%

(1) Total fund performance, regular account. Excludes variable account.

*Source: Oregon Public Employees Retirement Fund System Comprehensive Annual Financial Report for FY 2018-19*

## Employer Contribution Rates and Amounts

At the end of each odd-numbered year, actuarial valuations determine the employer contribution rates that are officially set by the PERS Board. Pursuant to ORS 238.225 all employers participating in PERS are required to make their contribution to PERS based on the employer contribution rates set by the PERS Board.

PERS funding policy provides for monthly employer contributions at actuarially determined rates. These contributions, expressed as a percentage of covered payroll, are intended to accumulate sufficient assets to pay benefits when due. Employer contribution rates are based upon the current and projected cost of benefits and the anticipated level of funding available from the OPERF, including known and anticipated investment performance of the OPERF.

The City’s employer contribution rates were derived using a rate stabilization methodology (the “Rate Collar”) designed to cap rate increases and reduce large fluctuations in employer contribution rates. Such rate increases are shifted to future biennia. See Table 13 for a summary of the Rate Collar in effect. Because of the Rate Collar, the PERS Board-approved employer contribution rates for some employers, including the City, are currently less than the actuarially required contribution (“ARC”).

T1/T2 Pension Programs employees and OPSRP employees are required by state statute to contribute six percent of their annual salary to the respective programs. Employers are allowed to pay the employees’ contribution in addition to the required employers’ contribution. The City has elected to make the employee contribution. An employer also may elect via written employment policy or agreement to make additional employer contributions to its employees’ IAP accounts in an amount that can range from not less than one percent of salary to no more than six percent of salary and must be a whole percentage. Employers may make this policy or agreement for specific groups of their employees. The City has elected to make an optional contribution to the IAP accounts of public safety employees hired after January 1, 2007, of an additional three percent of their annual salary.

The table below shows the City’s employer contribution rates for the 2017-19 biennium that ended on June 30, 2019. The table also shows the City’s current employer contribution rates for the 2019-21 biennium that began on July 1, 2019, as reported in the 2017 City Valuation and the City’s advisory-only, employer contribution rates for the 2021-23 biennium as reported in the 2018 City Valuation. The City’s actual employer contribution rates for the 2021-23 biennium will be based on the City’s actuarial valuation as of December 31, 2019. The rates reported in the table do not include the six percent and nine percent employee contribution rates for contributions to the IAP paid by the City.

**Table 19**  
**OREGON PUBLIC EMPLOYEES RETIREMENT SYSTEM**  
**Employer Contribution Rates for the City**  
**Percentage of Covered Payroll<sup>(1)(2)</sup>**

<b>Payrolls Paid</b>	<b>Past Rates 2017-2019</b>	<b>Current Rates 2019-21</b>	<b>Advisory-Only 2021-2023<sup>(3)</sup></b>
T1/T2	17.62%	21.86%	24.25%
OPSRP General Services	10.69	15.53	19.98
OPSRP Police and Fire	15.46	20.16	24.35

(1) Includes contribution rates to fund RHIA. See “OTHER POST-EMPLOYEE RETIREMENT BENEFITS – PERS Program.” For FY 2018-19, one percent of the City’s covered payroll for the three pension benefit programs was approximately: \$1,306,567 for T1/T2 Pension Programs; \$2,471,260 for OPSRP general services; and \$642,432 for OPSRP police and fire.

(2) Includes adjustments for side accounts and pre-SLGRP liabilities.

(3) Advisory-only, employer contribution rates for the 2021-2023 biennium are based on the 2018 City Valuation. The City’s actual employer contribution rates for the 2021-23 biennium will be based on the City’s actuarial valuation report as of December 31, 2019.

*Source: City of Portland, Oregon Public Employees Retirement System*

The City’s contribution rates may increase or decrease due to a variety of factors, including the investment performance of the OPERF, the use of pension-related reserves, further changes to system valuation methodology and assumptions and decisions by the PERS Board, and changes in benefits resulting from legislative modifications. The City cannot predict whether any legislation or related actions will attempt to further modify the PERS System or whether such attempts would withstand legal challenge.

The City’s financial plan has been updated to incorporate higher growth assumptions for PERS employer rates. For each of the next two biennia (FYs 2019-20 and 2020-21 and FYs 2021-22 and 2022-23), the financial plan assumes increases in rates for both T1/T2 and OPSRP of approximately five percentage points.

## **City Funding Policy**

In August 2014, the City Council approved a policy regarding funding of its PERS pension liability. The policy requires the City to make contributions at no less than the rate established by the PERS Board and required by ORS 238.225. The City has always funded its full employer contribution as required by ORS 238.225. See “—Employer Contribution Rates and Amounts” above.

## **Pension Obligation Bonds**

In addition to their PERS contribution, City bureaus in existence as of November 10, 1999, (the issue date of the bonds) are required to make a contribution to pay debt service on outstanding Limited Tax Pension Obligation Revenue Bonds (the “Pension Obligation Bonds”), which were issued to fund the City’s share of the unfunded actuarial liabilities of PERS as of December 31, 1997. The Pension Obligation Bonds were issued in three series: one series of fixed rate bonds in an amount of \$150,848,346 and two series of auction rate securities in an aggregate amount of \$150,000,000. Pension Obligation Bonds issued as auction rate securities were fully repaid on June 1, 2019. The final maturity of the fixed rate Pension Obligation Bonds is June 1, 2029. Proceeds of the Pension Obligation Bonds were deposited with PERS. Table 20 below shows the debt service paid by the City on its Pension Obligation Bonds.

## **Total City Pension Contribution**

The following table shows the amount of City contributions paid to PERS for the three pension programs including amounts paid by the City for the employee contribution. Contributions include the payments from the Fire and Police Disability and Retirement Fund for pensions of police and firefighters participating in the T1/T2 Pension Programs and OPSRP. Fire and Police Disability and Retirement Fund contributions are funded from a dedicated Citywide property tax levy (the “FPDR levy”). See “—PENSION PLANS: FIRE AND POLICE DISABILITY AND RETIREMENT FUND” below. In FY 2018-19, approximately 68 percent of the total cash contribution was for the employer share and 32 percent was for the employee share. The City made its required contribution for its pension obligation in all years. See “—Employer Contribution Rates and Amounts” above.

**Table 20**  
**CITY OF PORTLAND, OREGON**  
**City Contribution Related to PERS**

<b>Fiscal Year Ending June 30</b>	<b>City's Required Cash Contribution to PERS <sup>(1)</sup></b>	<b>Debt Service on Pension Obligation Bonds</b>	<b>Total Cash Contribution for Pension Costs</b>
2010	\$32,598,608	\$15,223,638	\$47,822,246
2011	33,622,080	16,416,215	50,038,295
2012	45,229,731	17,740,796	62,970,527
2013	45,278,556	19,433,725	64,712,281
2014	45,868,558	21,129,361	66,997,919
2015	46,969,145	23,074,692	70,043,837
2016	55,530,023	25,350,317	80,880,340
2017	58,637,409	27,853,142	86,490,551
2018	76,185,383	30,540,190	106,725,574
2019	86,437,805	33,027,629	119,465,434

(1) Includes City's statutorily required employer contribution for T1/T2 and OPSRP pension program and its pension contribution on behalf of employees. Includes contributions from the FPDR levy and other non-General Fund bureaus such as the Water Bureau and the Bureau of Environmental Services.

*Source: Oregon Public Employees Retirement System and City of Portland; Oregon*

### **Recent Developments Related to PERS**

In 2019, the Legislature adopted and the Governor signed Senate Bill 1049 ("SB 1049"), which makes certain modifications to the amortization of the UAL and benefits provided to employees retiring after December 31, 2019. Such modifications include: a one-time re-amortization of the UAL associated with Tier 1 and Tier 2 benefits that is measured as of December 31, 2019 and extending that amortization to 22 years; redirecting a portion of the 6 percent contributions currently made to the IAP to an "Employee Pension Stability Account" ("EPSA") within the PERS fund when an employee's salary exceeds \$2,500 per month (indexed annually); removing all current hourly limitations on retirees who work for a PERS employer after retirement, while mandating that such employer shall continue to make pension contributions at the previous employer rate; and capping the annual salary used in the calculation of certain retirement packages for all tiers to \$195,000 (indexed annually). According to the Legislative Fiscal Office, the re-amortization of the T1/T2 UAL from 20 years to 22 years is expected, under current actuarial assumptions, to extend the retirement of the UAL by approximately six years to 2041.

On August 9, 2019, a petition was filed with the Oregon Supreme Court challenging the constitutionality of certain portions of SB 1049. The City cannot predict whether the petitioners will be successful in whole or in part nor what the impact of a successful challenge may be. Further, the City cannot predict whether SB 1049 will be subject to additional legal challenges that could affect some or all of its provisions.

## **PENSION PLANS: FIRE AND POLICE DISABILITY AND RETIREMENT PLAN**

### **Overview**

The following discussion pertains to the City's Fire and Police Disability, Retirement and Death Benefit Plan (the "FPDR Plan"). The FPDR Plan was established in 1942 to provide disability, retirement and death benefits for sworn members of the City's Bureaus of Fire and Police and their survivors. The FPDR Plan is governed by a Board of Trustees (the "FPDR Board"), composed of the Mayor or Mayor's designee, two active members of the Fire and Police Bureaus and two citizens appointed by the Mayor and confirmed by the City Council. The Fire and Police member trustees are elected by the active members of the Fire Bureau and Police Bureau, respectively. The citizen trustees must have relevant experience in pension or disability matters. The FPDR Plan is administered by the Bureau of Fire and Police Disability and Retirement, led by the Fund Administrator.

The FPDR Plan's authority for vesting and benefit provisions is provided by Chapter 5 of the City Charter. Most amendments require majority approval of the voters in the City. Ten revisions have been passed by the voters since the creation of the plan. The most recent voter revision, comprised of eleven different plan amendments, was passed November 6, 2012. City Council may provide by ordinance any additional benefits that the City is required by law to extend to the members and may also change benefits by ordinance to maintain the FPDR Plan's tax-qualified status. The most recent amendments by the City Council occurred in 2016.

### **Benefit Programs**

The FPDR Plan consists of three tiers, two of which are now closed to new employees. The retirement plans for FPDR One, the original plan, and FPDR Two, in which most active fire and police personnel participate, are single-employer, defined-benefit plans administered by the FPDR Board. In addition to retirement benefits for FPDR One and FPDR Two members, the FPDR Plan provides service-connected, nonservice-connected, and occupational disability benefits for FPDR One, FPDR Two and FPDR Three members. FPDR Plan members do not participate in Social Security and do not receive Social Security benefits for their years of service.

**FPDR One.** Sworn members of the Police and Fire Bureaus subject to the FPDR Plan as constituted prior to July 1, 1990, are included in the FPDR One tier. All FPDR One members are now retired or receiving long-term disability benefits. Under FPDR One, retirement benefits are provided upon termination of employment on or after attaining age 50 (with 25 or more years of service) or 55 (with 20 years or more of service). Retirement benefits are paid to members at two percent of current top-step pay for a police officer or firefighter for each year of service (up to 60 percent); therefore, FPDR One members receive postretirement benefit increases equal to increases in current top-step police officer or firefighter pay.

**FPDR Two.** Sworn members of the Police and Fire Bureaus subject to the FPDR Plan as constituted after June 30, 1990, and first sworn before January 1, 2007, are included in the FPDR Two tier. Under FPDR Two, retirement benefits are provided upon termination of employment on or after attaining age 55, or on or after attaining age 50 if the member has 25 or more years of service. Members become 100 percent vested after five years of service. Benefits are paid using a formula tied to years of service and the highest one-year base pay the member received during the final three years of employment. The FPDR Board has the authority to grant postretirement benefit increases to FPDR Two members, so long as the increases do not exceed increases awarded to sworn retirees of PERS. Members enrolled in the FPDR Plan and still working prior to July 1, 1990, were required to make an election as to whether they wished to fall under the provisions of the FPDR Plan as constituted prior to July 1, 1990 (now called FPDR One) or become subject to the new FPDR Two provisions after June 30, 1990.

**FPDR Three.** Sworn members of the Police and Fire Bureaus hired on or after January 1, 2007, are included in the FPDR Three tier; those sworn on or after January 1, 2013, become FPDR Three members after six months of service. These participants are part of OPSRP for retirement benefits and are under the FPDR Plan for disability and pre-retirement death benefits, offset by any benefits received on account of disability or death under OPSRP. Retirement benefits for these participants are pre-funded, and the FPDR levy pays the employee and employer portions of the OPSRP contribution. For information regarding OPSRP and the employee and employer contribution rates for OPSRP, see "PENSION PLANS: OREGON PUBLIC EMPLOYEES RETIREMENT SYSTEM," above.

### **Funding**

The FPDR levy is a special property tax levy which cannot exceed two and eight-tenth mills on each dollar of valuation of property (\$2.80 per \$1,000 of Real Market Value) that is not exempt from such levy. The FPDR levy has been sufficient in all years to meet required annual benefit payments. In the event that collections from this special property tax levy are less than the amount required for payment of benefits in any particular year, the FPDR Fund could receive advances from the FPDR Reserve



Fund first and then from other City funds to make up the difference. While the FPDR Fund has not experienced any funding shortfalls to date, future funding is dependent on the availability of property tax revenues and, in the absence of sufficient property tax revenues, other legally available City funds.

Although the City Charter provides the FPDR Plan with dedicated property tax levy authority, the Oregon state constitution caps each property’s general government taxes at \$10 per \$1,000 of Real Market Value. After reaching this point, all levies, including the FPDR levy, are subject to compression under the State Constitution (“Measure 5 compression”) to fit within the \$10 limit. For this reason, it is unlikely that FPDR could collect the full \$2.80 per \$1,000 of Real Market Value on each property. In FY 2019-20, the tax loss due to Measure 5 compression was \$7.77 million, or 4.6 percent of the FPDR levy.

**Retirement Plan Asset Valuation and Liabilities**

The table below shows key assumptions for the most recent valuation of the FPDR Plan. Mortality and other assumptions are regularly reviewed and updated as needed. The discount rate is equal to the June 30 value of the Bond Buyer General Obligation 20-Bond Municipal Bond Index each year, in accordance with the requirement of Governmental Accounting Standards Board Statement No. 67 (“GASB 67”) that plans use a risk-free discount rate for the portion of the plan’s liability that is not prefunded.

**Table 21**  
**CITY OF PORTLAND, OREGON**  
**FPDR Plan -- Actuarial Assumptions and Methods**  
**For the June 30, 2018, Valuation**

Actuarial Cost Method	Entry Age Normal
Actuarial Value of Assets	Market Value
Funding Policy	Pay-As-You-Go
Discount Rate	3.87%
Payroll Growth Rate	3.75%

*Source: Milliman Inc., City of Portland Fire & Police Disability & Retirement (FPDR) Fund, Pension Actuarial Valuation Report as of June 30, 2018, dated January 15, 2019*

As distinguished from the pension plan for FPDR Three members, assets generally are not accumulated in the current year to pay for benefit payments in future years for the FPDR Plan. The table below shows funding levels for the FPDR Plan over the past ten fiscal years. In accordance with the Charter’s provisions, there are no requirements to fund the FPDR Plan using actuarial techniques. The FPDR Plan is funded on a pay-as-you-go basis. Each year’s benefits and expenses are paid for with employer contributions derived from dedicated property tax revenue received during that year. Because of the FPDR Plan’s pay-as-you-go funding basis, the unfunded actuarial accrued pension liability and net pension liability (the new terminology per GASB 67 implemented by the City effective June 30, 2014), do not reflect the value of dedicated future revenues from the property tax levy. See “—Levy Adequacy” below. As reflected in the City’s CAFR for its fiscal year ended June 30, 2019, and required by GASB 68, the net pension liability for the FPDR Plan is a primary factor in the City’s unrestricted net position deficit for governmental activities for FY 2018-19, and contributed to the City’s total net position decrease from FY 2012-13 to FY 2013-14, when GASB 68 was implemented. See table entitled “Net Position by Component Last Ten Fiscal Years (accrual basis of accounting)” on page 390 of the City’s CAFR for its fiscal year ended June 30, 2019.

**Table 22**  
**CITY OF PORTLAND, OREGON**  
**FPDR Plan --Summary of Funding Levels <sup>(1)</sup>**

<b>Fiscal Year</b>	<b>Actuarial Value of Assets</b>	<b>Actuarial Liability</b>	<b>Unfunded Actuarial Liability <sup>(1)</sup></b>	<b>Funded Ratio <sup>(2)</sup></b>
2009 (3)	\$11,571,074	\$2,279,923,000	\$2,268,351,926	0.51%
2010	16,542,896	2,549,479,088	2,532,936,192	0.65%
2011 (3)	25,648,253	2,610,360,794	2,584,712,541	0.98%
2012 (3)	20,287,803	2,674,072,175	2,653,784,372	0.76%

<b>Fiscal Year <sup>(3)</sup></b>	<b>Plan Net Position, Ending</b>	<b>Total Pension Liability</b>	<b>Net Pension Liability <sup>(2)</sup></b>	<b>Net Position as Percent of Total Liability <sup>(2)</sup></b>
2013	\$17,155,015	\$2,517,096,534	\$2,499,941,519	0.68%
2014	20,532,924	2,473,970,866	2,453,437,942	0.83%
2015	21,876,942	2,896,894,767	2,875,017,825	0.76%
2016	17,425,353	3,391,461,315	3,374,035,962	0.51%
2017	14,150,087	3,367,105,729	3,352,955,642	0.42%
2018	17,790,774	3,295,142,974	3,277,352,200	0.54%
2019	20,001,298	3,568,635,904	3,548,634,606	0.56%

(1) Table reflects transition to new accounting classifications as required by the Governmental Accounting Standards Board beginning with FY 2012-13.

(2) Does not include value of future dedicated FPDR property tax collections.

(3) Amounts are calculated by rolling forward prior actuarial valuations. See Table 23 below for a summary of the June 30, 2016, and June 30, 2018, valuations.

Source: *City of Portland audited financial statements*

Overall the net pension liability decreased from \$3.67 billion on June 30, 2016, to \$3.31 billion on June 30, 2018, as shown in Table 23 below. Note that these valuations differ from results shown in Table 22 above because they are based on actual results prepared by Milliman and are not roll-forward amounts of prior valuations.

**Table 23**  
**CITY OF PORTLAND, OREGON**  
**FPDR Plan--Summary of Most Recent Actuarial Valuations**

<b>Fiscal Year Ending June 30</b>	<b>Plan Assets</b>	<b>Total Pension Liability</b>	<b>Net Pension Liability</b>
2016	\$17,425,353	\$3,689,965,110	\$3,672,539,757
2018	17,790,776	3,323,733,057	3,305,942,281

*Source: Milliman Inc., City of Portland Fire & Police Disability & Retirement (FPDR) Fund, Pension Actuarial Valuation Report as of June 30, 2018, dated January 15, 2019*

The primary reason for the reduction in the plan’s pension liability is the increase in the discount rate (the June 30 value of the Bond Buyer General Obligation 20-Bond Municipal Bond Index each year). The rate rose from 2.85 percent on June 30, 2016 to 3.87 percent on June 30, 2018, dropping the pension liability by \$554 million. In addition, projected longevity declined for some participant types as a result of changes in mortality assumptions, which decreased the pension liability by a relatively small \$35 million. Mortality assumptions are routinely updated to reflect the experience of the larger and more statistically valid Oregon PERS sworn population. Partially offsetting these reductions were increases caused by divergence between recent experience and long-term assumptions, particularly with respect to active participant salary growth.

**FPDR Fund and Levy Adequacy**

A critical measure of the FPDR Fund’s financial health is whether the dedicated property tax will ever be insufficient to fully cover benefit expenditures both for the pay-as-you-go FPDR Plan and contributions to the pre-funded OPSRP plan. The table below compares the certified tax levy for FPDR Plan contributions (for FPDR One and FPDR Two participants) and OPSRP contributions (for FPDR Three participants) with the amount authorized based on the \$2.80/\$1,000 Charter limitation. Between FY 2010-11 and FY 2019-20, Real Market Value of property subject to taxation has grown by a compounded annual rate of approximately 6.5 percent.

**Table 24**  
**CITY OF PORTLAND, OREGON**  
**FPDR Fund--Certified Levies Compared with Maximum Levies Authorized**

<b>FYE</b>	<b>Tax Levy</b>	<b>Certified</b>	<b>Maximum Levy</b>	<b>Amount Available</b>
<b>June 30</b>	<b>per \$1,000 RMV</b>	<b>Tax Levy <sup>(1)</sup></b>	<b>Authorized (\$2.80/1,000 RMV)</b>	<b>to be Certified from Authorized Levy</b>
2011	\$1.37	\$118,526,184	\$241,849,105	\$123,322,921
2012	1.41	114,264,711	227,257,618	112,992,907
2013	1.55	123,564,952	223,709,460	100,144,508
2014	1.62	136,383,540	235,325,707	98,942,167
2015	1.48	136,883,230	259,331,341	122,448,111
2016	1.30	133,795,013	287,358,793	153,563,780
2017	1.15	138,900,728	338,199,473	199,298,745
2018	1.13	155,553,793	384,951,394	229,397,601
2019	1.09	163,748,624	419,138,031	255,389,407
2020	1.10	168,768,476	427,766,153	258,997,677

(1) Before Measure 5 Compression, delinquencies and discounts.

Source: City of Portland

The table below shows historical taxes imposed (after Measure 5 compression) and historical expenditures for retirement benefits and death and disability benefits. As fire and police retirement benefits transition from a pay-as-you-go system to a pre-funded system through OPSRP, the FPDR levy will be funding pensions for two generations of FPDR members simultaneously: FPDR One and FPDR Two members who are funded on a pay-as-you-go basis during their retirement years and FPDR Three members whose retirement benefits are pre-funded through OPSRP during their working careers. Costs for disability benefits will continue to be paid on a pay-as-you go basis. As described below, higher costs are expected over approximately the next 20 years, with the potential for higher tax levy rates.

**Table 25**  
**CITY OF PORTLAND, OREGON**  
**FPDR Fund--Imposed Levies and Expenditures for**  
**Pension Benefits and Death/Disability Benefits**

<b>Fiscal Year Ending June 30</b>	<b>Imposed Tax Levy<sup>(1)</sup></b>	<b>FPDR One &amp; Two Pension Benefits</b>	<b>FPDR Three OPSRP Contributions</b>	<b>Disability &amp; Funeral Benefits</b>	<b>Total FPDR Benefit Contributions</b>
2010	\$111,376,678	\$89,038,110	\$2,210,250	\$9,075,988	\$100,324,348
2011	114,217,070	90,464,611	2,865,737	7,938,636	101,268,984
2012	108,666,428	94,708,986	4,735,637	7,064,187	106,508,810
2013	115,752,880	99,417,595	5,265,815	6,725,710	111,409,120
2014	123,304,615	103,506,696	5,998,321	7,410,977	116,915,994
2015	126,777,805	103,355,638	6,952,685	6,219,646	116,527,969
2016	126,376,817	107,074,899	8,699,501	6,420,506	122,194,906
2017	132,477,613	113,826,622	9,672,695	6,525,351	130,024,668
2018	148,214,877	119,616,359	13,318,516	6,050,635	138,985,510
2019	156,454,895	124,145,879	15,515,328	6,587,313	146,248,520

(1) Amount after Measure 5 Compression but not adjusted for delinquencies and discounts.

Source: *City of Portland*

The FPDR Board assesses the FPDR Plan’s long-term financial condition in part by projecting the future availability of revenues from the dedicated property tax (the “Levy Adequacy Analysis”), which are the source of employer contributions under the Charter. The most recent Levy Adequacy Analysis, completed by an independent actuary in connection with the actuarial valuation of the fund, was as of June 30, 2018. The Levy Adequacy Analysis found that, under a wide range of simulated economic scenarios over the next 20 years, the future FPDR levy would remain under \$2.80 per \$1,000 of Real Market Value, but the levy exceeded the \$2.80 threshold in at least one year in approximately one percent of modeled scenarios. This represents a decline from about three percent of modeled scenarios in the prior analysis as of June 30, 2016. Continued growth in real market values in the City’s tax base has further increased the likelihood that the FPDR levy will be sufficient to fund benefits and expenses for the entire life of the FPDR Plan. Plan costs peak in FY 2036-37 in nominal terms; the peak on an inflation-adjusted basis is in FY 2031-32.

The table below shows projected levy rates and taxes levied at the 50<sup>th</sup> and 5<sup>th</sup> percentiles of scenarios for FY 2018-19 through FY 2037-38 as included in the 2018 Levy Adequacy Analysis. Note that the actual levy rate per \$1,000 of Real Market Value was \$1.09 for FY 2018-19 and \$1.10 for FY 2019-20.

**Table 26**  
**CITY OF PORTLAND, OREGON**  
**FPDR Fund--Projected Levy Rate, Taxes and Requirements<sup>(1)</sup>**

<b>Fiscal Year Ending June 30</b>	<b>Levy Rate at 50<sup>th</sup> Percentile</b>	<b>Taxes Levied at 50<sup>th</sup> Percentile</b>	<b>Levy Rate at 5<sup>th</sup> Percentile</b>	<b>Taxes Levied at 5<sup>th</sup> Percentile</b>
2019	\$1.08	\$161,900,000	\$1.08	\$161,900,000
2020	1.09	171,900,000	1.09	172,000,000
2021	1.10	180,100,000	1.23	181,700,000
2022	1.16	198,600,000	1.37	203,000,000
2023	1.17	208,900,000	1.43	214,600,000
2024	1.19	222,900,000	1.54	235,700,000
2025	1.20	235,900,000	1.60	250,600,000
2026	1.22	251,700,000	1.70	272,200,000
2027	1.24	266,400,000	1.77	289,700,000
2028	1.25	281,700,000	1.85	311,300,000
2029	1.26	296,800,000	1.89	329,900,000
2030	1.32	324,700,000	2.03	363,800,000
2031	1.32	339,900,000	2.06	383,200,000
2032	1.32	354,900,000	2.11	404,400,000
2033	1.31	369,600,000	2.14	423,000,000
2034	1.29	380,700,000	2.18	442,600,000
2035	1.27	391,900,000	2.17	457,600,000
2036	1.18	381,100,000	2.10	455,000,000
2037	1.15	388,400,000	2.07	466,700,000
2038	1.02	358,900,000	1.89	440,800,000

(1) Results are expressed as a probability distribution. Amounts shown in table are median values within percentile categories. Actual rates for FY 2017-18 and FY 2018-19 are found in the table titled “FPDR Fund—Certified Levies Compared with Maximum Levies Authorized.”

Source: Milliman, Inc., *FPDR Levy Adequacy Analysis as of June 30, 2018, dated January 22, 2019*

The current analysis extends through FY 2037-38 and encompasses all facts, decisions and conditions pertaining to the FPDR Plan known at the time the analysis was completed. Future actuarial measurements may differ significantly from the measurements presented herein due to factors such as changes in economic or demographic assumptions (including changes in Real Market Value); changes related to PERS, performance of investments, and changes in FPDR Plan benefit provisions or applicable law.

#### **OTHER POST-EMPLOYMENT RETIREMENT BENEFITS (“OPEB”)**

The City’s OPEB liability includes two separate plans. The City provides a contribution to the State of Oregon PERS cost-sharing multiple-employer defined benefit plan and an implicit rate subsidy for retiree Health Insurance Continuation premiums.

#### **PERS Program**

Retirees who receive pension benefits through the T1/T2 Pension Programs and are enrolled in certain PERS-administered health insurance programs may also receive a subsidy towards the payment of health insurance premiums. Under ORS 238.420, retirees may receive a subsidy for Medicare supplemental health insurance of up to \$60 per month towards the cost of their health insurance premiums under the RHIA program. RHIA’s assets and liabilities are pooled on a system-wide basis. These assets and liabilities are not tracked or calculated on an employer basis. The City’s allocated share of the RHIA program’s assets and liabilities is based on the City’s proportionate share of the program’s pooled covered payroll. According to the 2018 City Valuation, the City’s allocated share of the RHIA program’s UAL was (\$6,363,951) as of December 31, 2018.

The City’s current employer contribution rates to fund RHIA benefits during the 2019-21 biennium for T1/T2 employees is 0.06 percent and for OPSRP general services and police and fire employees is 0.00 percent. According to the 2018 City Valuation, the advisory-only rates to fund RHIA benefits during the 2021-23 biennium for T1/T2 employees is 0.05 percent and for OPSRP general services and policy and fire employees is 0.00 percent. These employer contribution rates to fund RHIA are included in the rates described in Table 19 above. Actual employer contribution rates to fund RHIA for the 2021-23 biennium will be based on the City’s actuarial valuation report as of December 31, 2019.

## Health Insurance Continuation Option

Distinct from the PERS program, Oregon municipalities, including the City, are required to allow retirees and their dependents to continue to receive health insurance by paying the premiums themselves at a rate that is blended with the rate for current employees until retirees and spouses are eligible for federal Medicare coverage and until children reach the age of 18 (the “Health Insurance Continuation Option” or “HIC”). GASB 75 refers to this as an implicit subsidy and therefore requires the corresponding liability to be determined and reported.

The OPEB liability associated with the Health Insurance Continuation Option is an actuarially-determined amount calculated in accordance with the parameters of GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions*. The City’s annual OPEB cost is calculated based on the actuarially-determined service cost, which represents a level of funding that, if paid on an ongoing basis, is projected to cover normal costs each year and amortize any unfunded liability over a period of 30 years. The City’s estimated unfunded actuarial accrued liability for OPEB as of July 1, 2018 was \$100,197,951. The valuation was prepared using the Entry Age Normal actuarial cost method and amortized over an open period of 30 years using the level percentage of projected pay. Other assumptions include of a discount rate of 3.90 percent, 2.2 percent inflation rate, annual healthcare cost trend rates of 4.5 to 7.5 percent, and retirees’ share of benefit-related costs of 26 percent of estimated program costs.

For FY 2018-19, the changes to the total OPEB liability is calculated as follows:

Balance at 6/30/18	\$100,197,951
Changes for the year:	
Service cost	3,675,148
Interest	3,640,097
Changes of assumptions	(2,777,647)
Benefit payments	(5,567,867)
Net Changes	(1,030,269)
Balance at 6/30/19	\$99,167,682

Actuarial valuations for the Health Insurance Continuation Option are undertaken every two years. A new valuation study will be undertaken for reporting the OPEB liability as of July 1, 2019.

The City expects to use a pay-as-you-go approach to fund its actuarial accrued liability and OPEB obligation, but will monitor its OPEB liability and assess whether a different approach is needed in future years.

## Implementation of Governmental Accounting Standards Board Statement No. 75

Beginning in its CAFR for FY 2017-18, the City implemented Governmental Accounting Standards Board Statement No. 75, which changed employer reporting of OPEB for state and local governments. Under this new standard, for FY 2018-19, the City has reported in its CAFR the following balances:

	<b>Deferred</b>		
	<b>Outflow/(Inflow) of</b>	<b>Net OPEB</b>	
	<b>Resources</b>	<b>Liability/(Asset)</b>	<b>OPEB Expense</b>
RHIA	\$779,521	(\$4,177,752)	(\$410,434)
HIC	(\$1,650,289)	\$99,167,682	\$5,979,579
Total	(\$870,768)	\$94,989,930	\$5,569,145

See the City’s CAFR for the fiscal year ended June 30, 2019, which is posted on the EMMA website.

## LITIGATION

Members of the public and advocacy groups from time to time assert that they intend to file a legal action against the City challenging certain programs, laws or actions that the City, its officers or bureaus have taken. Because the City cannot be certain as to whether such actions will actually be filed, the legal assertions that may be made in a potential action or the remedy sought

in terms of the amount of damages or performance requested of the City, the City includes as threatened litigation only situations in which the City is engaged in active settlement negotiations with a person or group in order to pre-empt filing of a lawsuit.

The City discloses only pending or threatened litigation that the City has determined may have a materially adverse impact on the financial position of the Bureau or the Water System. The current level of materiality involves litigation where the damages or performance sought has a reasonable probability of imposing liability of \$5 million or more against the Bureau or the Water System. Except as noted in the following paragraphs, there is no litigation pending or threatened against the City which would materially and adversely affect the financial condition of the Bureau or the Water System.

*Portland Harbor Superfund Site.* In 2000, Portland Harbor, a 10-mile industrial stretch of the Lower Willamette River outside of the City's urban center, was listed by the EPA as a Superfund site. The EPA notified the City that it may have liability for releases of contaminants in the Willamette River. The City may also have liabilities to Natural Resource Trustees of the Willamette River (including tribes, and federal and state resource agencies) for damages to natural resources in Portland Harbor.

In 2017, the EPA issued its Record of Decision for the cleanup plan for the Portland Harbor Superfund Site. For purposes of comparing relative cleanup costs of different remedies, the EPA prepared rough (-30% to +50%) cost estimates of remedy costs. Using this method, the EPA estimated capital costs to implement the selected remedy of approximately \$1.05 billion in 2017 dollars, estimated by the EPA to be \$1.7 billion in actual future dollars. Since the issuance of the Record of Decision, the EPA has required an additional phase of environmental sampling before remedy implementation. The additional work and EPA's interpretation of remedy requirements may change the expected costs of the remedy. The costs associated with the remedy have not been allocated among the numerous potentially liable parties.

The Natural Resource Trustees have not made a final determination of the total damages to natural resources and those costs have not been allocated among the numerous potentially liable parties.

The City is participating in voluntary, negotiated settlement processes to determine how cleanup costs can be allocated among all responsible parties. These processes cannot be concluded until the parties reach agreement or the liabilities are litigated. The City will defend against a significant allocation of liability to the City for cleanup and natural resource damages. Under Superfund law, responsible parties that fail to enter into agreements to remediate and restore Superfund sites become subject to legal action by the EPA for cleanup and restoration, including imposition of fines. Once initiated, the remedial design and implementation phase is expected to be conducted and funded over many years. The City expects to have an extended period to identify funding strategies and to fund its share of the remedy.

On July 12, 2019 a complaint was filed in Multnomah County Circuit Court challenging the City's use of ratepayer funds on expenditures related to partial settlement of City liabilities on the Portland Harbor Superfund site. Under the agreement authorizing this expenditure, the City is obligated to pay to the EPA the total sum of \$12,000,000 from both City General Fund and ratepayer sources. The complaint challenged only the City's authority to utilize ratepayer funds for this purpose. Based on the Circuit Court's prior rulings on this issue, the City is confident that the Charter of the City of Portland duly authorizes the City to expend ratepayer funds for this purpose.



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**APPENDIX**  
**AUDITED FINANCIAL STATEMENTS**

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## INTRODUCTION TO EXCERPTS OF FINANCIAL STATEMENTS

The financial statements of the City have been audited by independent certified public accountants for the fiscal years 2015, 2016, 2017, 2018 and 2019. Copies of these financial statements containing the reports of the independent certified public accountants are available on the on the MSRB's EMMA system for municipal securities disclosure at <http://emma.msrb.org>. and the City's website at <http://www.portlandoregon.gov/bfs/26053>.

The following pages in this Appendix A are excerpted from the City's Comprehensive Annual Financial Reports of the City for Fiscal Years ending June 30, 2015 through June 30, 2019.

**A CONSENT OF THE INDEPENDENT AUDITOR WAS NOT REQUESTED. THE AUDITOR WAS NOT REQUESTED TO PERFORM AND HAS NOT PERFORMED ANY SERVICE IN CONNECTION WITH THIS DISCLOSURE DOCUMENT AND IS THEREFORE NOT ASSOCIATED WITH THIS DISCLOSURE DOCUMENT.**

**CITY OF PORTLAND, OREGON**  
**Water Fund**  
**Statement of Revenues, Expenses, and Changes in Fund Net Position**  
**For the Years Ended June 30**

	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
Operating revenues:					
Service charges and fees	\$ 157,380,504	\$ 173,487,191	\$ 175,614,113	\$ 193,790,787	\$ 198,696,840
Service charges and fees provided internally	2,976,787	3,179,359	2,934,952	3,990,320	3,666,943
Miscellaneous	391,942	428,140	927,863	479,228	584,166
Total operating revenues	<u>160,749,233</u>	<u>177,094,690</u>	<u>179,476,928</u>	<u>198,260,335</u>	<u>202,947,949</u>
Operating expenses:					
Salaries and wages	23,071,213	58,594,493	47,977,994	49,037,424	50,202,989
Operating supplies	3,655,498	3,820,480	4,038,727	4,286,313	4,367,089
Professional services	1,581,177	1,430,391	2,669,596	3,748,009	4,078,841
Services and materials provided internally	16,279,698	17,538,439	18,926,002	19,156,911	18,694,271
Utilities	1,920,607	3,155,593	2,500,733	1,936,107	3,024,605
Miscellaneous	5,363,404	5,366,481	5,104,772	7,823,667	6,484,609
Utility license fees	6,007,691	6,536,256	6,776,380	7,349,454	7,811,826
Depreciation expense	25,747,919	29,029,736	29,672,576	30,519,028	31,036,464
Total operating expenses	<u>83,627,207</u>	<u>125,471,869</u>	<u>117,666,780</u>	<u>123,856,913</u>	<u>125,700,694</u>
Operating income (loss)	<u>77,122,026</u>	<u>51,622,821</u>	<u>61,810,148</u>	<u>74,403,422</u>	<u>77,247,255</u>
Nonoperating revenues (expenses):					
Gain (loss) on sale of capital assets	(1,150,129)	(2,788,130)	(2,434,064)	(552,117)	(826,057)
Investment earnings	1,003,061	1,849,415	1,044,195	2,035,994	6,619,147
Investment expense	(20,345,687)	(22,321,528)	(26,411,666)	(22,425,581)	(19,972,805)
Debt issuance costs	(252,949)	-	(553,403)	-	-
Miscellaneous	639,538	699,409	661,830	6,196,022	668,581
Total nonoperating revenues (expenses)	<u>(20,106,166)</u>	<u>(22,560,834)</u>	<u>(27,693,108)</u>	<u>(14,745,682)</u>	<u>(13,511,134)</u>
Income (loss) before contributions and transfers	57,015,860	29,061,987	34,117,040	59,657,740	63,736,121
Transfers in	119,083	35,000	904,022	1,040,246	4,366,601
Transfers out	(626,104)	(656,657)	(706,236)	(729,163)	(583,916)
Capital contributions	499,708	222,790	184,444	724,484	95,445
Income before special item	57,008,547	28,663,120	34,499,270	60,693,307	67,614,251
Change in net position	<u>57,008,547</u>	<u>28,663,120</u>	<u>34,499,270</u>	<u>60,693,307</u>	<u>67,614,251</u>
Total net position - beginning previously reported	492,451,439	-	-	575,111,213	630,610,371
Restatement per GASB 68 implementation	(37,511,163)	-	-	-	-
Restatement per GASB 75 implementation	-	-	-	(5,194,149)	-
Total net position -- beginning	<u>454,940,276</u>	<u>511,948,823</u>	<u>540,611,943</u>	<u>569,917,064</u>	<u>630,610,371</u>
Total net position -- ending	<u>\$ 511,948,823</u>	<u>\$ 540,611,943</u>	<u>\$ 575,111,213</u>	<u>\$ 630,610,371</u>	<u>\$ 698,224,622</u>

Source: City of Portland. Audited financial statements

**CITY OF PORTLAND, OREGON**  
**Water Fund**  
**Statement of Net Position**  
**As of June 30**

	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
<b>ASSETS</b>					
Current assets (unrestricted):					
Cash and investments	\$ 86,861,714	\$ 109,603,859	\$ 107,120,401	\$ 152,780,512	\$ 123,333,102
Receivables					
Accounts, net	24,256,822	27,523,273	26,173,534	30,350,197	31,760,178
Assessments	299,408	306,645	498,515	340,337	355,472
Advances	227,328	267,763	256,597	119,761	635,662
Accrued interest	414,593	495,988	713,365	882,901	995,155
Due from other funds	8,175	-	-	-	-
Inventories	2,147,595	2,119,687	2,229,524	2,503,240	2,681,639
Property held for sale	-	-	-	151,630	151,630
Prepaid expense	-	-	-	1,017,390	17,561,906.00
Internal balances	-	-	-	400,000	5,141,410.00
Total current assets (unrestricted)	<u>114,215,635</u>	<u>140,317,215</u>	<u>136,991,936</u>	<u>188,545,968</u>	<u>182,616,154</u>
Current assets (restricted):					
Cash and investments	5,411,508	2,625,654	3,975,719	4,991,683	7,538,307
Total current assets (restricted)	<u>5,411,508</u>	<u>2,625,654</u>	<u>3,975,719</u>	<u>4,991,683</u>	<u>7,538,307</u>
Total current assets	119,627,143	142,942,869	140,967,655	193,537,651	190,154,461
Noncurrent assets (unrestricted):					
Capital assets, not being depreciated or amortized:					
Land	15,029,156	15,252,949	14,557,078	14,557,078	14,418,542
Construction in progress	92,044,177	81,303,435	84,910,984	124,666,357	187,567,920
Intangible assets/land use rights	3,211,842	3,525,180	3,677,626	4,095,390	4,109,663
Capital assets, being depreciated or amortized:					
Infrastructure	1,167,153,932	1,213,069,235	1,262,956,716	1,290,237,420	1,317,605,739
Buildings	78,186,859	80,571,820	80,766,179	81,082,997	80,990,906
Improvements to land	32,593,279	50,806,413	53,519,156	53,972,203	56,490,081
Equipment	32,336,697	34,994,539	31,441,875	32,467,749	34,054,420
Intangible assets/land use, owning rights/software	3,219,925	3,622,231	9,386,747	10,574,552	10,625,149
Capital lease	-	-	-	-	-
Accumulated depreciation and amortization	(383,187,171)	(405,940,881)	(424,932,406)	(450,129,768)	(476,525,140)
Capital assets net of accumulated depreciation and amortization	1,040,588,696	1,077,204,921	1,116,283,955	1,161,523,978	1,229,337,280
Receivables:					
Assessments	251,946	269,510	199,160	239,971	186,213
Pension asset	10,056,132	-	-	-	-
Internal balances	-	-	-	5,141,410	-
Net OPEB asset	-	-	-	129,271	361,866
Total non-current assets (unrestricted)	<u>1,050,896,774</u>	<u>1,077,474,431</u>	<u>1,116,483,115</u>	<u>1,167,034,630</u>	<u>1,229,885,359</u>
Noncurrent assets (restricted):					
Cash and investments:	89,890,089	46,973,948	111,685,396	44,437,881	23,822,893
Total non-current assets	<u>1,140,786,863</u>	<u>1,124,448,379</u>	<u>1,228,168,511</u>	<u>1,211,472,511</u>	<u>1,253,708,252</u>
Total assets	<u>1,260,414,006</u>	<u>1,267,391,248</u>	<u>1,369,136,166</u>	<u>1,405,010,162</u>	<u>1,443,862,713</u>
<b>DEFERRED OUTFLOWS OF RESOURCES</b>					
Deferred outflows - pensions	3,301,241	5,906,769	33,173,997	19,647,400	22,731,718
Deferred outflows - OPEB	-	-	-	651,459	663,212
Deferred outflows on debt refunding	-	-	-	-	27,983
Total deferred outflows of resources	<u>3,301,241</u>	<u>5,906,769</u>	<u>33,173,997</u>	<u>20,298,859</u>	<u>23,422,913</u>

**CITY OF PORTLAND, OREGON**  
**Water Fund**  
**Statement of Net Position (continued)**  
**As of June 30**

	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
<b>LIABILITIES</b>					
Current liabilities (payable from unrestricted assets):					
Accounts payable	5,716,250	4,792,206	4,753,223	6,790,333	5,891,029
Self insurance claims	-	189,831	192,375	125,548	367,411
Compensated absences	4,149,020	4,163,216	3,972,760	4,245,606	5,077,591
Unearned revenue	256,915	337,384	329,788	368,811	367,488
Bonds payable	30,196,739	31,781,557	35,245,689	36,693,214	38,279,433
Accrued interest payable - current	5,739,240	5,490,162	6,260,371	5,956,838	5,632,572
Pollution remediation	550,000	545,000	175,000	143,000	-
Other liabilities - current	-	134,138	6,414	6,414	6,414
Total current liabilities (unrestricted)	<u>46,608,164</u>	<u>47,433,494</u>	<u>50,935,620</u>	<u>54,329,764</u>	<u>55,621,938</u>
Current liabilities (payable from restricted assets):					
Accounts payable	5,411,508	2,625,654	3,975,719.00	4,991,683	7,538,307
Total current liabilities (restricted)	<u>5,411,508</u>	<u>2,625,654</u>	<u>3,975,719</u>	<u>4,991,683</u>	<u>7,538,307</u>
Total current liabilities	<u>52,019,672</u>	<u>50,059,148</u>	<u>54,911,339</u>	<u>59,321,447</u>	<u>63,160,245</u>
Noncurrent liabilities:					
Compensated absences	-	146,994	-	67,139	-
Self insurance claims	-	937,090	869,871	867,929	139,376
Bonds payable	665,979,141	634,197,583	687,928,912	651,235,698	612,956,265
Accrued interest payable	10,873,407	12,126,443	13,480,831	14,944,742	16,527,021
Net pension liability - PERS	-	25,103,554	65,240,068	57,717,412	63,676,831
Other postemployment benefits	1,797,052	1,787,268	1,775,909	7,310,649	7,307,599
Pollution remediation	-	175,000	-	-	-
Total noncurrent liabilities	<u>678,649,600</u>	<u>674,473,932</u>	<u>769,295,591</u>	<u>732,143,569</u>	<u>700,607,092</u>
Total liabilities	<u>730,669,272</u>	<u>724,533,080</u>	<u>824,206,930</u>	<u>791,465,016</u>	<u>763,767,337</u>
<b>DEFERRED INFLOWS OF RESOURCES</b>					
Deferred inflows - pensions	20,102,011	7,312,227	1,701,079	1,827,981	3,929,982
Deferred amort for debt refunding	995,141	840,767	1,290,941	1,068,045	916,705
Deferred inflows - OPEB	-	-	-	337,608	446,981
Total deferred inflows of resources	<u>21,097,152</u>	<u>8,152,994</u>	<u>2,992,020</u>	<u>3,233,634</u>	<u>5,293,668</u>
<b>NET POSITION</b>					
Net investment in capital assets	458,896,340	480,880,921	524,697,188	535,544,450	616,667,860
Unrestricted	53,052,483	59,731,022	50,414,025	95,065,921	81,556,762
Total net position	<u>\$ 511,948,823</u>	<u>\$ 540,611,943</u>	<u>\$ 575,111,213</u>	<u>\$ 630,610,371</u>	<u>\$ 698,224,622</u>

Source: City of Portland. Audited financial statements

**CITY OF PORTLAND, OREGON**  
**Water Fund**  
**Statement of Cash Flows**  
**For Fiscal Years Ended June 30**

	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
<b>CASH FLOWS FROM OPERATING ACTIVITY</b>					
Receipts from customers and users	\$ 154,664,651	\$ 170,670,640	\$ 177,770,606	\$ 190,383,406	\$ 197,392,425
Receipts from interfund services provided	2,976,787	3,179,359	2,934,952	3,990,320	3,666,944
Payments to suppliers	(20,274,848)	(22,560,139)	(20,626,358)	(23,482,352)	(41,472,253)
Payments to employees	(35,833,980)	(38,678,712)	(41,068,665)	(42,669,125)	(44,599,069)
Payments for interfund services used	(16,279,698)	(17,538,437)	(18,926,002)	(19,156,912)	(18,694,271)
Other receipts (payments)	662,912	701,060	664,987	657,783	668,581
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
Net cash provided by operating activities	85,915,824	95,773,771	100,749,520	109,723,120	96,962,357
<b>CASH FLOW FROM NONCAPITAL FINANCING ACTIVITIES</b>					
Transfers in	16,999	35,000	904,022	1,040,246	4,366,601
Transfers out	(626,103)	(656,592)	(706,236)	(729,163)	(583,916)
Internal balances	-	-	-	-	400,000
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
Net cash provided (used) by noncapital financing activities	(609,104)	(621,592)	197,786	311,083	4,182,685
<b>CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES</b>					
Proceeds from sale of bonds and notes	84,975,000	-	168,525,000	-	-
Premium on bonds and notes issued	7,642,900	-	14,864,824	-	-
Sale of capital/ fixed assets	269,973	168,633	199,625	670,411	423,216
Acquisition of capital assets	(94,068,304)	(68,379,995)	(71,200,855)	(76,257,097)	(100,003,597)
Principal paid on bonds, notes and capital leases	(26,582,115)	(26,376,616)	(121,308,581)	(30,868,832)	(32,489,459)
Interest paid on bonds, notes and capital leases	(22,677,893)	(25,292,067)	(28,722,676)	(25,864,956)	(23,097,870)
Bond issuance costs	(252,949)	-	(553,403)	-	-
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
Net cash provided (used) by capital related financing activities	(50,693,388)	(119,880,045)	(38,196,066)	(132,320,474)	(155,167,710)
<b>CASH FLOWS FROM INVESTING ACTIVITIES</b>					
Interest on investments	831,393	1,768,016	826,815	1,866,461	6,506,895
Property for resale	-	-	-	(151,630)	-
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
Net increase (decrease) in cash and cash equivalents	35,444,725	(22,959,850)	63,578,055	(20,571,440)	(47,515,773)
<b>CASH AND CASH EQUIVALENTS</b>					
<b>July 1, Prior Year</b>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	146,718,586	182,163,311	159,203,461	222,781,516	202,210,076
<b>CASH AND CASH EQUIVALENTS</b>					
<b>June 30, Current Year</b>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	\$ 182,163,311	\$ 159,203,461	\$ 222,781,516	\$ 202,210,076	\$ 154,694,303
<b>Reconciliation of Cash and Cash Equivalents to the Statements of Net Position:</b>					
Unrestricted cash and cash equivalents	\$ 86,861,714	\$ 109,603,859	\$ 107,120,401	\$ 152,780,512	\$ 123,102,103
Restricted cash and cash equivalents	95,301,597	49,599,602	115,661,115	49,429,564	31,361,200
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
Total	\$ 182,163,311	\$ 159,203,461	\$ 222,781,516	\$ 202,210,076	\$ 154,463,303

**CITY OF PORTLAND, OREGON**  
**Water Fund**  
**Statement of Cash Flows (continued)**  
**For Fiscal Years Ended June 30**

	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
<b>Reconciliation of operating income (loss) to net cash provided by operating activities</b>					
Operating income (loss)	\$ 77,122,026	\$ 51,622,821	\$ 61,810,148	\$ 74,403,422	\$ 77,247,255
Adjustments to reconcile operating income (loss) to net cash provided (used) by operating activities:					
Depreciation and amortization of capital assets	25,747,919	29,029,736	29,672,576	30,519,028	31,036,464
Provision for uncollectible accounts	627,617	624,974	624,974	624,974	626,891
Nonoperating revenue	645,633	699,409	661,830	654,612	668,581
Change in assets and liabilities:					
Accounts and contracts receivable	4,234,000	6,099,471	614,412	(4,676,704)	(2,746,745)
Inventories	(287,131)	27,908	(109,837)	(273,716)	(178,399)
Prepaid expenses	-	-	-	(1,017,390)	(16,544,516)
Accounts payable	(1,226,340)	(3,709,900)	1,311,084	3,053,074	1,647,321
Self insurance claims	-	1,126,921	(64,675)	(68,769)	(486,690)
Compensated absences	(48,447)	161,190	(337,450)	339,985	764,846
Due from (to) other funds	-	8,175	-	-	-
Unearned revenue	(8,037)	80,470	(7,597)	39,021	(1,323)
Net pension liability	-	25,103,554	40,136,514	(7,522,656)	5,959,419
Other liabilities	-	134,138	(127,724)	-	-
Pollution remediation	(233,000)	170,000	(545,000)	(32,000)	(143,000)
Accrued other postemployment benefits	51,977	(9,784)	(11,359)	5,534,740	(3,050)
Deferred outflows - pensions	(3,301,241)	(2,605,528)	(27,267,228)	13,526,597	(3,084,318)
Deferred outflows - OPEB	-	-	-	(651,459)	(11,753)
Deferred inflows - pensions	20,102,011	(12,789,784)	(5,611,148)	126,902	2,102,001
Deferred inflows - pensions	20,102,011	(12,789,784)	(5,611,148)	337,608	109,373
Restatement per GASB 68 implementation	(37,511,163)	-	-	-	-
Restatement per GASB 75 implementation	-	-	-	(5,194,149)	-
Net cash provided by operating activities	<u>\$ 106,017,835</u>	<u>\$ 82,983,987</u>	<u>\$ 95,138,372</u>	<u>\$ 109,723,120</u>	<u>\$ 96,962,357</u>
<b>Noncash information</b>					
Capital contribution	499,708	222,790	184,444	724,484	95,445
Capital assets transferred to/from business-type activities	-	272	-	-	-
Increase in fair value of investments (classified as cash equivalents)	(16,628)	478,555	(1,217,444)	(1,208,087)	2,295,006

Source: City of Portland. Audited financial statements

