

ANNUAL REPORT COVER SHEET

CITY OF GRAND RAPIDS, MICHIGAN

This cover sheet, the Annual Report, the Comprehensive Annual Financial Report (CAFR), and the City /County Joint Building Authority Financial Audit are being uploaded to the Municipal Securities Rulemaking Board's Electronic Municipal Market Access (EMMA) pursuant to Securities & Exchange Commission Rule 15c2-12(b)(5)(i)(A) and (B).

City's name: City of Grand Rapids, Michigan

Page 1 of 2

City's six-digit CUSIP numbers(s): See below

Number of pages of the attached Annual Report or portion thereof:

62 pages plus the separately uploaded City of Grand Rapids, Michigan ("CAFR") for the period ended June 30, 2018 and the City of Grand Rapids / County of Kent Financial Audit for the period ended June 30, 2018

Bond Issues to which this Annual Report relates:

CUSIP	Name of Bond Issue	Date of Such Bonds:
386289	\$83,650,000 City of Grand Rapids, Michigan Sanitary Sewer System Improvement & Refunding Revenue Bonds, Series 1998A	July 1, 1998
386244	\$7,375,000 City of Grand Rapids Building Authority Building Authority Bonds, Series 2006	November 15, 2006
386226	\$14,740,000 City of Grand Rapids, Michigan Capital Improvement Bonds, Series 2007	May 16, 2007
386316	\$32,900,000 City of Grand Rapids, Michigan Water Supply System Revenue Refunding Bonds, Series 1993 Conversion	April 8, 2008
386289	\$67,260,000 City of Grand Rapids Michigan Sanitary Sewer System Revenue Bonds, Series 2008	August 6, 2008
386445	\$7,870,000 Grand River Floodwalls and Embankments Drainage District Grand River Floodwalls and Embankments Drain Refunding Bonds, Series 2008	September 30, 2008
386244	\$8,980,000 City of Grand Rapids Building Authority Building Authority Bonds, Series 2008	December 23, 2008
386244	\$18,005,000 City of Grand Rapids Building Authority Building Authority Refunding Bonds, Series 2009	March 4, 2009
59455T	\$28,430,000 Michigan Municipal Bond Authority (GR-DDA Series 2009) Local Government Loan Program Revenue Bonds, Series 2009A	March 18, 2009
386316	\$30,000,000 City of Grand Rapids, Michigan Water Supply System Refunding Revenue Bonds, Series 2009	May 6, 2009
386289	\$29,625,000 City of Grand Rapids, Michigan Sanitary Sewer System Revenue Refunding Bonds, Series 2010	January 26, 2010
386244	\$1,770,000 City of Grand Rapids, Michigan Building Authority Bonds, Series 2010A	March 30, 2010
386244	\$2,815,000 City of Grand Rapids, Michigan Building Authority Bonds, Series 2010B	March 30, 2010
386244	\$7,325,000 City of Grand Rapids Building Authority Building Authority Bonds, Series 2010C	September 15, 2010
386316	\$43,025,000 City of Grand Rapids, Michigan Water Supply System Refunding Revenue Bonds, Series 2010	October 4, 2010
386289	\$24,815,000 City of Grand Rapids, Michigan Sanitary Sewer System Revenue Bonds, Series 2010A and 2010B	December 15, 2010
386244	\$14,585,000 City of Grand Rapids Building Authority Building Authority Refunding Bonds, Series 2011	July 28, 2011
386205	\$2,325,000 City of Grand Rapids, Michigan Brownfield Redevelopment Authority Tax Increment Bonds, Series 2012	June 12, 2012
386289	\$30,000,000 City of Grand Rapids, Michigan Sanitary Sewer System Improvement Revenue Bonds, Series 2012	October 10, 2012

List continues on next page

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Bond Issues to which this Annual Report relates:

CUSIP	Name of Bond Issue	Date of Such Bonds
386316	\$3,385,000 City of Grand Rapids, Michigan Water Supply System Revenue Refunding Bonds, Series 2013	March 13, 2013
386289	\$37,830,000 City of Grand Rapids, Michigan Sanitary Sewer System Revenue Refunding Bonds, Series 2013	May 16, 2013
386289	\$55,230,000 City of Grand Rapids, Michigan Sanitary Sewer System Revenue Improvement & Refunding Bonds, Series 2014	October 8, 2014
386445	\$4,550,000 Grand River Floodwalls and Embankments Drainage District Grand River Floodwalls and Embankments Drain Bonds, Series 2014	December 3, 2014
386316	\$25,370,000 City of Grand Rapids, Michigan Water Supply System Revenue Refunding Bonds, Series 2015	February 25, 2015
386226	\$19,580,000 City of Grand Rapids, Michigan Limited Tax General Obligation Refunding Bonds, Series 2016	February 4, 2016
386289	\$48,410,000 City of Grand Rapids, Michigan Sanitary Sewer System Revenue Refunding Bonds, Series 2016	March 3, 2016
386226	\$15,245,000 City of Grand Rapids, Michigan Capital Improvement Bonds, Series 2016	March 31, 2016
386316	\$36,740,000 City of Grand Rapids, Michigan Water Supply System Revenue Improvement & Refunding Bonds, Series 2016	September 22, 2016
386445	\$8,445,000 Grand River Floodwalls and Embankments Drainage District Grand River Floodwalls and Embankments Drain Bonds, Series 2016	November 15, 2016
386226	\$25,280,000 City of Grand Rapids, Michigan Downtown Development Refunding and Improvement Bonds, Series 2017	March 8, 2017
386289	\$43,400,000 City of Grand Rapids, Michigan Sanitary Sewer System Revenue Improvement Bonds, Series 2018	June 13, 2018
386316	\$38,680,000 City of Grand Rapids, Michigan Water Supply System Revenue Improvement & Refunding Bonds, Series 2018	September 20, 2018
386226	\$8,210,000 City of Grand Rapids, Michigan Capital Improvement Bonds, Series 2018	December 18, 2018

I hereby represent that I am authorized by the City to distribute this information publicly:

Signature:  _____

Name: Jeff Dood

Title: Chief Financial Officer

Employer: City of Grand Rapids

Address: Fiscal Services-Administration, 7th Floor, 300 Monroe Avenue, N.W.

City, State, ZIP code: Grand Rapids, Michigan 49503

Voice telephone number: 616-456-3953



**CITY OF
GRAND
RAPIDS**

CITY OF GRAND RAPIDS, MICHIGAN

CONTINUING DISCLOSURE CERTIFICATE – ANNUAL REPORT

AS OF JUNE 30, 2018

Prepared by Jana M. Wallace
Debt and Authority Finance Officer
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Grand Rapids, Michigan 49503
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December 19, 2018

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CITY OF GRAND RAPIDS, MICHIGAN

City of Grand Rapids Population

The City's 1970, 1980, 1990, 2000 and 2010 census populations are as follows:

<u>Year of Census</u>	<u>Population</u>	<u>Percent Change</u>
1970	197,649	0.23%
1980	181,843	(8.00)
1990	189,126	4.01
2000	197,800	4.59
2010	188,040	(4.93)
2017 (estimate)	198,829	5.74

Source: U.S. Department of Commerce-Bureau of Census.

Form of Government

The City was first incorporated as a village in 1838. In 1850 it was incorporated as a city under a mayor-council form of government, and remained that way until 1916, when the commission-manager form of government was adopted under the authority of the Home Rule City Act (Michigan Public Act 279 of 1909, as amended). The present commission is composed of seven members. Two members are elected on a non-partisan basis from each of the City's three wards, and one member is elected at-large on a non-partisan basis to serve as Mayor. The Comptroller is also elected at-large on a non-partisan basis. The City Manager, chief administrative officer of the City, is appointed by the City Commission and serves at its pleasure. The City Commission meets on Tuesdays in accordance with a schedule determined annually.

CITY TAXATION AND LIMITATIONS

Property Assessments

Real property is land and the things permanently attached to or part of the land and improvements made to it by human efforts ("Real Property"). Examples of Real Property include land, buildings, water and sewer facilities, roads and acquisition of various property rights. Personal property is property owned by an individual or business which is not affixed to or associated with the land, consisting of movable items such as furniture, fixtures, and machines and equipment if belonging to a business ("Personal Property"). Customary household goods such as furnishings, appliances and clothing are typically exempt from property taxes if they are used within the household.

Real and Personal Property, as of December 31 of each year, is assessed, or valued, by the City, equalized by the County of Kent (the "County") and further equalized by the State. The value as equalized by the State becomes the state equalized valuation ("State Equalized Valuation" or "SEV"). See "Property Valuations" following.

Article IX, Section 3, of the Michigan Constitution provides that Real and Personal Property assessments shall not exceed 50% of true cash value. The Michigan Legislature has provided, by statute, that Real and Personal Property will be assessed at 50% of true cash value. The Michigan Legislature, or the electorate, may change the percentage of true cash value at which Real and Personal Property is assessed.

Personal Property assessments reflect the taxpayer reported cost of the Personal Property and the application of one of the depreciation schedules formulated by the State Tax Commission. The City's

assessor determines which depreciation schedule will be used to value the Personal Property.

Owners of taxable property may appeal their assessment to the City Assessor, the City's Board of Review and to the Michigan Tax Tribunal. Outstanding appeals are not anticipated to adversely impact the financial condition of the City.

Property Valuations

In 1994, the electors of the State approved an amendment to the Michigan Constitution permitting the Legislature to authorize the levy of taxes on a non-uniform basis. The legislation implementing this constitutional amendment added a new measure of property value known as taxable value ("Taxable Value"). Since 1995, property that is taxable has two valuations, SEV and Taxable Value. Michigan statute provides that Real and Personal Property taxes ("Ad Valorem Taxes") be levied on Taxable Value (the "Ad Valorem Tax Roll").

Generally, the Taxable Value of Real or Personal Property is the lesser of (a) the SEV or Taxable Value of the property in the immediately preceding year, adjusted for losses, multiplied by the lesser of the inflation rate or 5%, plus additions, or (b) the property's current SEV. Under certain circumstances, the Taxable Value of property may be different from the same property's SEV. When Real or Personal Property is sold or transferred, Taxable Value is adjusted to the SEV, the year after the sale or transfer, which under existing law is 50% of the true cash value. The Taxable Value of new construction is equal to its SEV.

Taxable Value

Ad Valorem Taxable Value does not include any value of tax-exempt property (e.g., governmental facilities, churches, public schools, etc.) or property granted tax abatement under Act 198, Public Acts of Michigan, 1974, as amended ("Act 198"), Act 147, Public Acts of Michigan, 1992, as amended ("Act 147"), Act 146, Public Acts of Michigan, 2000, as amended ("Act 146"), Act 260, Public Acts of Michigan, 2003, as amended ("Act 260"), and Act 210, Public Acts of Michigan, 2005, as amended ("Act 210"). For its fiscal year ending June 30, 2018, the equivalent effect of the abatements granted under Act 198, Act 146, Act 147, Act 210, and Act 260 is to understate the City's Taxable Value by \$95,336,948 or 2.02%. Including the Equivalent Taxable Value, hereinafter defined, of these properties, the City's total Taxable Value ("Total Taxable Value") has increased \$277,647,059 or approximately 6.32% between the fiscal years ended June 30, 2014 through 2018 as illustrated in the table below.

**City of Grand Rapids, Michigan
Total Taxable Value
Fiscal Years Ended June 30, 2014 Through 2018**

Assessed Value as of <u>December 31</u>	Year of State Equalization and Tax <u>Levy</u>	City's Fiscal Year Ended <u>June 30</u>	Ad Valorem Taxable <u>Value (1)</u>	Equivalent Taxable Value of Property Granted Tax Abatements Under Act 198, Act 146, Act 147, Act 210, and <u>Act 260 (2)</u>	Total <u>Taxable Value</u>	Percent Increase Over Prior <u>Year</u>
2012	2013	2014	\$4,357,727,544	\$37,454,350	\$4,395,181,894	(2.43)%
2013	2014	2015	4,364,654,862	35,974,581	4,400,629,443	0.12
2014	2015	2016	4,455,733,728	36,601,317	4,492,335,042	2.08
2015	2016	2017	4,453,697,782	42,132,907	4,495,830,689	0.08
2016	2017	2018	4,629,447,243	43,381,710	4,672,828,953	3.94

Per Capita Total Taxable Value for the Fiscal Year Ended June 30, 2018 (3).....\$24,850.19

- (1) Includes the value of qualified property located within the City's Renaissance Zone (the "Zone") which was created pursuant to the provisions of Act 376, Public Acts of Michigan, 1996 ("Act 376"), as amended. Act 376 was designed to stimulate private investment within the Zone through the abatement of certain property, income and business taxes. For the fiscal year ended June 30, 2018, the Taxable Value of property qualified for the benefits of the Zone program totaled \$46,849,031. As of fiscal year ended June 30, 2018, exemptions for most of the City's Zone designated property have been phased out according to the schedule created when the exemption was awarded by the State. For the remaining properties in the City's Zone, property and income tax exemptions will be reduced to 0% through 2025, depending on the particular development agreement.
- (2) At the full tax rate. See "CITY TAXATION AND LIMITATIONS – Tax Abatements" herein.
- (3) Based on the City's 2010 Census of 188,040.

Source: City of Grand Rapids

Including the value of property granted tax abatements under Act 198, Act 146, Act 147, Act 210, and Act 260, a breakdown of the City's Total Taxable Value by use and class for the fiscal years ended June 30, 2014 through 2018 is shown below.

City of Grand Rapids, Michigan
Total Taxable Value by Use and Class
Fiscal Years Ended June 30, 2014 Through 2018

<u>Use</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
Commercial	\$1,399,597,694	\$1,384,618,458	\$1,401,843,547	\$1,444,040,005	\$1,530,848,049
Industrial	369,821,967	368,227,152	377,385,446	271,080,305	261,489,690
Residential	2,541,424,533	2,557,472,833	2,613,690,552	2,679,500,979	2,776,188,614
Utility	<u>84,337,700</u>	<u>90,311,000</u>	<u>99,415,500</u>	<u>101,209,400</u>	<u>104,302,600</u>
	<u>\$4,395,181,894</u>	<u>\$4,400,629,443</u>	<u>\$4,492,335,045</u>	<u>\$4,495,830,689</u>	<u>\$4,672,828,953</u>

<u>Class</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
Real Property	\$3,911,998,644	\$3,922,928,694	\$3,995,423,345	\$4,091,909,589	\$4,266,728,953
Personal Property	<u>483,183,250</u>	<u>477,700,749</u>	<u>496,911,700</u>	<u>403,921,100</u>	<u>406,100,000</u>
	<u>\$4,395,181,894</u>	<u>\$4,400,629,443</u>	<u>\$4,492,335,045</u>	<u>\$4,495,830,689</u>	<u>\$4,672,828,953</u>

Source: City of Grand Rapids

City of Grand Rapids, Michigan
Percent of Total Taxable Value by Use and Class
Fiscal Years Ended June 30, 2014 Through 2018

<u>Use</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
Commercial	31.85%	31.46%	31.21%	32.12%	32.76%
Industrial	8.41	8.37	8.40	6.03	5.60
Residential	57.82	58.12	58.18	59.60	59.41
Utility	<u>1.92</u>	<u>2.05</u>	<u>2.21</u>	<u>2.25</u>	<u>2.23</u>
	<u>100.00%</u>	<u>100.00%</u>	<u>100.00%</u>	<u>100.00%</u>	<u>100.00%</u>

<u>Class</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
Real Property	89.01%	89.14%	88.94%	91.02%	91.31%
Personal Property	<u>10.99</u>	<u>10.86</u>	<u>11.06</u>	<u>8.98</u>	<u>8.69</u>
	<u>100.00%</u>	<u>100.00%</u>	<u>100.00%</u>	<u>100.00%</u>	<u>100.00%</u>

Source: City of Grand Rapids

State Equalized Valuation

Aside from its use in determining Taxable Value for the purpose of levying Ad Valorem Taxes, SEV is important because of its role in the spreading of taxes between overlapping jurisdictions, the distribution of various State aid programs, State revenue sharing and in the calculation of legal debt limits.

Ad Valorem SEV does not include any value of tax-exempt property (e.g., governmental facilities, churches, public schools, etc.) or property granted tax abatement under Act 198, Act 146 Act 147, Act 210, and Act 260. The effect of the abatements granted under Act 146, Act 147, Act 198, Act 210, and Act 260 is to understate the City's Ad Valorem SEV for its fiscal year ending June 30, 2018 by \$102,504,800 or 1.8%. Including the SEV of these properties, the City's total SEV ("Total SEV") has increased \$1,074,920,800 or approximately 23.34% between the fiscal years ended June 30, 2014 through 2018 as illustrated on the following table.

**City of Grand Rapids, Michigan
Total State Equalized Valuation
Fiscal Years Ended June 30, 2014 Through 2018**

Assessed Value as of December 31	Year of State Equalization and Tax Levy	City's Fiscal Year Ended June 30	Ad Valorem SEV	Property Granted Tax Abatement Under Act 198, Act 146, Act 210, and Act 260 (1)	Total SEV	Percent Increase Over Prior Year
2012	2013	2014	\$4,534,036,800	\$71,863,200	\$4,605,900,000	(3.03)
2013	2014	2015	4,617,333,950	72,961,200	4,690,295,150	1.83
2014	2015	2016	4,859,918,600	77,464,100	4,937,382,700	5.27
2015	2016	2017	5,097,099,000	88,742,800	5,185,841,800	5.03
2016	2017	2018	5,578,316,000	102,504,800	5,680,820,800	9.54

Per Capita Total SEV for the Fiscal Year Ended June 30, 2018 (2)\$30,211.70

(1) See "CITY TAXATION AND LIMITATIONS – Tax Abatements" herein.

(2) Based on the City's 2010 census of 188,040.

Source: City of Grand Rapids

**City of Grand Rapids, Michigan
Total SEV by Use and Class
Fiscal Years Ended June 30, 2014 Through 2018**

Use	Fiscal Year Ended June 30				
	2014	2015	2016	2017	2018
Commercial.....	\$1,468,274,300	\$1,459,738,500	\$1,510,478,900	\$1,593,218,100	\$1,769,366,300
Industrial.....	407,470,500	405,499,800	413,250,200	301,240,500	294,717,600
Residential.....	2,645,817,500	2,734,745,850	2,914,238,100	3,190,173,800	3,512,434,300
Utility.....	<u>84,337,700</u>	<u>90,311,000</u>	<u>99,415,500</u>	<u>101,209,400</u>	<u>104,302,600</u>
	<u>\$4,605,900,000</u>	<u>\$4,690,295,150</u>	<u>\$4,937,382,700</u>	<u>\$5,185,841,800</u>	<u>\$5,680,820,800</u>

Class	Fiscal Year Ended June 30				
	2014	2015	2016	2017	2018
Real Property.....	\$4,101,111,400	\$4,191,877,950	\$4,420,494,200	\$4,770,802,000	\$5,264,046,800
Personal Property.....	<u>504,788,600</u>	<u>498,417,200</u>	<u>516,888,500</u>	<u>415,039,800</u>	<u>416,774,000</u>
	<u>\$4,605,900,000</u>	<u>\$4,690,295,150</u>	<u>\$4,937,382,700</u>	<u>\$5,185,841,800</u>	<u>\$5,680,820,800</u>

Source: City of Grand Rapids

City of Grand Rapids, Michigan
Percent of Total SEV by Use and Class
Fiscal Years Ended June 30, 2014 Through 2018

<u>Use</u>	<u>Fiscal Year Ended June 30</u>				
	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
Commercial.....	31.88%	31.12%	30.59%	30.72%	31.14%
Industrial	8.85	8.65	8.37	5.81	5.19
Residential.....	57.44	58.31	59.03	61.52	61.83
Utility	<u>1.83</u>	<u>1.92</u>	<u>2.01</u>	<u>1.95</u>	<u>1.84</u>
	<u>100.00%</u>	<u>100.00%</u>	<u>100.00%</u>	<u>100.00%</u>	<u>100.00%</u>
<u>Class</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
Real Property	89.04%	89.37%	89.53%	92.00%	92.66%
Personal Property	<u>10.96</u>	<u>10.63</u>	<u>10.47</u>	<u>8.00</u>	<u>7.34</u>
	<u>100.00%</u>	<u>100.00%</u>	<u>100.00%</u>	<u>100.00%</u>	<u>100.00%</u>

Source: City of Grand Rapids

Tax Abatements

The City’s Ad Valorem Taxable Value does not include the value of certain facilities which have been temporarily removed from the Ad Valorem Tax Roll pursuant to Act 198. Act 198 was designed to provide a stimulus in the form of significant tax incentives to industrial enterprises to renovate and expand aging facilities and to build new facilities. Under the provisions of Act 198, a local governmental unit (i.e., a city, village or township) may establish plant rehabilitation districts and industrial development districts and offer industrial firms certain property tax incentives or abatements to encourage restoration or replacement of obsolete facilities and to attract new facilities to the area.

An industrial facilities exemption certificate granted under Act 198 entitles an eligible facility to exemption from Ad Valorem Taxes for a period of up to 12 years. In lieu of Ad Valorem Taxes, the eligible facility will pay an industrial facilities tax (the “IFT Tax”). For properties granted tax abatement under Act 198 there exists a separate tax roll referred to as the industrial facilities tax roll (the “IFT Tax Roll”). The IFT Tax for an obsolete facility which is being restored or replaced is determined in exactly the same manner as the Ad Valorem Tax; the important difference being that the value of the property remains at the Taxable Value level prior to the improvements even if the restoration or replacement substantially increases the value of the facility. For a new facility the IFT Tax is also determined the same as the Ad Valorem Tax but instead of using the total mills levied as Ad Valorem Taxes, a lower millage rate is applied. For abatements granted after 1993, this millage rate equals 1/2 of all tax rates levied by other than the State plus 0%, 50% or 100% of the State Education Tax as determined by the State Treasurer.

The City’s Ad Valorem Taxable Value also does not include the value of certain facilities which have been temporarily removed from the Ad Valorem Tax Roll pursuant to Act 146. Act 146 was designed to provide a stimulus in the form of significant tax incentives to renovate certain blighted, environmentally contaminated or functionally obsolete commercial property or commercial housing property (“OPRA Properties”). Under the provisions of Act 146, a local governmental unit (i.e. a city, village or township) may establish obsolete property rehabilitation districts and offer tax incentives or abatements to encourage rehabilitation of OPRA Properties.

An obsolete property rehabilitation certificate granted under Act 146 entitles an eligible facility to an exemption from Ad Valorem Taxes on the building only for a period of up to 12 years. A separate tax roll exists for OPRA Properties abated under Act 146 called the “Obsolete Properties Tax Roll.” An “Obsolete Properties Tax” is calculated using current year ad valorem millages times the taxable value of the obsolete building for the tax year immediately prior to the effective date of the obsolete property rehabilitation

certificate except for the annual school operating and State Education Tax millages which are charged at the Ad Valorem Tax rate on the current Taxable Value of the building.

Another property tax abatement program used by the City is authorized under Act 147, which is known as the Neighborhood Enterprise Zone Act. Act 147 allows specific local governments to create “Neighborhood Enterprise Zones.” The goal of the Neighborhood Enterprise Zone (“NEZ”) abatement program is to promote home ownership and investment in areas of the City where the greatest impact would occur and where such improvements may trigger additional investment in adjacent neighborhoods.

There are two types of available NEZ property tax abatements. One is for the rehabilitation of an existing property and one for new construction. Both types of NEZ property tax abatements apply only to residential properties. The holder of an NEZ Certificate does not pay ad valorem property taxes related to the taxable value of the NEZ residence. Instead, the property owner pays the Neighborhood Enterprise Zone Tax (the “NEZ Tax”), which is equal to one half of the State’s average rate of taxation. For Fiscal year ended June 30, 2018, the NEZ Tax rate was 17.2750 mills for a new Principal Residence Exemption (“PRE”) facility and 26.4750 mills for a new non-PRE facility. The amount of the NEZ Tax on a rehabilitated NEZ residence is determined each year by multiplying the Taxable Value of the residence for the tax year immediately preceding the effective date of the NEZ Certificate by the total ad valorem millage rate. Land value and special assessments are not eligible for the NEZ property tax abatement. The effective date for the tax abatement is dependent upon commencement of construction and when the residence is substantially completed. NEZ Certificates are in effect for up to 12 years. The continuance of a NEZ Certificate is conditional upon being current on payment of all taxes and any other debts owed to the City on an annual basis.

The City also offers tax incentives pursuant to Act 210 for the rehabilitation of commercial property for the primary purpose and use of a commercial business or multi-family residential facility. The property must be located within an established Commercial Rehabilitation District. Exemptions are approved for a term of up to ten years, as determined by the City. The property taxes are based upon the previous year's (prior to rehabilitation) taxable value. The taxable value is frozen for the duration of the certificate. Applications are filed, reviewed and approved by the City, but are also subject to review at the State level by the Property Services Division of the State Tax Commission (STC) which is responsible for final approval and issuance of certificates. Exemptions are not effective until approved by the STC.

Act 260, known as the Tax Reverted Clean Title Act (“TRCTA”), provides for the levy of a specific tax upon property sold or otherwise conveyed by a Land Bank Fast Track Authority (“LBFTA”) which qualifies for the five-year exemption. The legal name for the tax is the Eligible Tax Reverted Property Specific Tax. The specific tax levied on certain properties sold or otherwise conveyed by a Land Bank Fast Track Authority is an annual tax, payable at the same times, in the same installments, and to the same officer or officers as taxes imposed under the General Property Tax Act and the State Education Tax Act. To assist with the costs of administration of the LBFTA, Act 260 allows for 50% of the property taxes to be distributed to the LBFTA which sold the property, for up to five years.

The City has established goals, objectives and procedures to provide the opportunity for residential, industrial and commercial development and expansion. The SEV of properties that have been granted tax abatement under Act 198, Act 146, Act 147, Act 210, and Act 260, removed from the Ad Valorem Tax Roll and placed on the IFT Tax Roll, Obsolete Properties Tax Roll, the TRCTA Roll, the Commercial Rehabilitation Act Roll, or in an NEZ totaled \$102,504,800 for the fiscal year ending June 30, 2018. Taxes paid on these properties are equivalent to Ad Valorem Taxes paid on \$43,381,710 of Taxable Value at the full tax rate (the “Equivalent Taxable Value”). Upon expiration of the abatements, the current equalized valuation of the abated properties returns to the Ad Valorem Tax Roll as Taxable Value.

Personal Property Tax Exemptions

Act 328, Public Acts of Michigan, 1998, as amended, ("Act 328") allows certain eligible communities to designate specific existing areas as "eligible distressed areas" in which "new personal property" of "eligible businesses" would be exempt from Ad Valorem property taxation. The City is one of the eligible communities. With the approval of the State Tax Commission, the City designated certain areas as eligible distressed areas. Under Act 328, the City has exempted personal property related to 14 agreements ranging from five years to up to twelve years for fiscal year ending June 30, 2018 assessment roll. To date, it is estimated that personal property assessed value in the amount of \$20,264,100 is currently eligible for PA 328 abatements.

Personal Property Tax Reform

In 2012, the legislature enacted and the Governor signed a number of acts that set the groundwork for personal property tax reform. In 2013, amendments to some of those acts were enacted to clarify exemptions from personal property taxes beginning in 2014 for taxpayers with industrial or commercial personal property the true cash value of which totals \$80,000 or less within any city or township and beginning in 2016 (the fiscal year ended June 30, 2017) for eligible manufacturing personal property put in service after 2012 or that has been in service for at least 10 years. In 2014, the legislature amended remaining provisions of the 2012 legislation to provide 100% reimbursement for local governments, including tax increment financing authorities, for lost revenues due to the new personal property tax exemptions. The annual reimbursements are made from use taxes set aside in statutorily prescribed amounts for distribution by the Michigan Local Community Stabilization Authority pursuant to a statutory formula. The funds set aside will not require and cannot be affected any executive or legislative actions. The formula for distribution of replacement revenues is generally based on the personal property tax receipts a local government had in 2013, so the replacement revenues generally will not grow in accordance with the addition of manufacturing or other personal property. The entire exemption and revenue replacement plan was approved by electors of the State at the August 5, 2014 state primary election resulting in the above referenced legislation becoming effective.

Future Tax Reform Proposals

The ultimate nature, extent and impact of other tax and revenue measures, which are from time to time considered, cannot currently be predicted. No assurance can be given that any future legislation or administrative action, if enacted or implemented, will not adversely affect the market price or marketability of City-issued bonds, or otherwise prevent bondholders from realizing the full current benefit of an investment therein. Purchasers of City bonds should be alert to the potential effect of such measures upon the City's bonds, the security therefor, and the operations of the City, its Sanitary Sewer System, its Water supply System, and its various authorities.

Property Taxes

Michigan statutes provide that all ad valorem taxes are to be levied upon Taxable Value. The City's ability to tax is limited by the State Constitution, State statutes and the City Charter. Home rule cities, such as the City, are permitted by Act 279, Public Acts of Michigan, 1909, as amended (the "Home Rule City Act"), to authorize by their charters a maximum levy of 20 mills for operating purposes. The City's Charter authorizes a maximum levy of 6.4100 mills for general and library operating purposes. Additionally, the City Charter authorized the levy of 0.3950 mills for library capital improvement purposes for a twenty year period commencing July 1, 1998. A mill is equal to \$1.00 for each \$1,000 of Taxable Value. Pursuant to Act 298, Public Acts of Michigan, 1917, as amended, home rule cities may authorize an additional levy of up to three mills for refuse collection and disposal. Home rule cities are also authorized to levy up to one mill (plus one additional mill with voter approval) for library purposes pursuant to Act 164, Public Acts of

Michigan, 1877, as amended. Act 359, Public Acts of Michigan, 1925, as amended, also authorizes home rule cities to levy up to \$50,000 for promotional expenses.

For its fiscal year ended June 30, 2018, the City levied 6.0774 mills for operating purposes, 1.6000 mills for refuse collection and disposal, 0.0107 mill for promotion purposes, 0.3741 mill for library capital improvement purposes and 0.9636 mill for public parks facilities approved by the electorate for a period of seven years beginning with the July 1, 2014 levy (see "CITY TAXATION AND LIMITATIONS – State Limitations on Property Taxes" herein). In addition, the electorate may authorize the issuance of general obligation bonds or other obligations which pledge the full faith and credit and unlimited taxing power of the City. See "CITY TAXATION AND LIMITATIONS" and "CITY DEBT" herein.

State Limitations on Property Taxes

In 1978, the electorate of the State passed an amendment to the State Constitution (the “Headlee Amendment”) which placed certain limitations on increases of taxes by the State and political subdivisions from currently authorized levels of taxation. The Headlee Amendment and the enabling legislation, Act 35, Public Acts of Michigan, 1979, as amended, may have the effect of reducing the maximum authorized tax rate which could be levied by a local taxing unit. Under the Headlee Amendment's millage reduction provisions, should the value of taxable property, exclusive of new construction, increase at a percentage greater than the percentage increase in the Consumer Price Index, the maximum authorized tax rate would be reduced by a factor which would result in the same maximum potential tax revenues to the local taxing unit as if the valuation of taxable property (less new construction) had grown only at the national inflation rate instead of the higher actual growth rate. Thus, should taxable property values rise faster than consumer prices, the maximum authorized tax rate would be reduced accordingly. However, should consumer prices subsequently rise faster than taxable property values, the maximum authorized tax rate would be increased accordingly, but never higher than the statutory or charter tax rate limitations.

The Headlee Amendment does not limit taxes for the payment of principal of and interest on bonds or other evidences of indebtedness outstanding at the time the Headlee Amendment became effective or which have been approved by the electorate of the State or such political subdivision. For the fiscal year ended June 30, 2018 the Headlee Amendment had the effect of reducing the City's authorized millages as follows:

**City of Grand Rapids, Michigan
Maximum Property Tax Rates
Fiscal Year Ended June 30, 2018**

<u>Millage Classification</u>	<u>Millage Authorized</u>	<u>Millage Rate As Permanently Reduced by Headlee</u>	<u>Current Year Millage Reduction Fraction</u>	<u>Maximum Allowable Millage</u>
Operating (1)	6.4100	6.0774	0.9880	6.0774
Refuse Collection and Disposal	3.0000	2.7252	0.9880	2.7252
Promotional (2).....	\$50,000			0.0107
Library (3)	0.3950	0.3741	0.9880	0.3741
Parks (4)	0.9800	0.9636	0.9880	0.9636

(1) For the fiscal year ended June 30, 2018, includes operating levies allocated for general, capital reserve and library purposes of 2.7890, 1.2500, and 2.0384 mills respectively.

(2) Estimated levy intended to generate approximately \$50,000 annually.

(3) In 1997 the City's electorate amended the City's Charter to increase its operating levy by 0.3950 mills for a period of twenty years commencing July 1, 1998 to be allocated and used solely for the City's public library facilities.

(4) In 2013, the City's electorate amended the City's Charter to increase its operating levy by 0.9800 mills for a period of seven years commencing July 1, 2014 to be allocated and used solely for the City's public parks facilities.

Source: City of Grand Rapids

Property Tax Rates

As defined under "Property Taxes" herein, a mill is equal to \$1.00 for each of \$1,000 of Taxable Value. The City is currently authorized to levy annually 6.0774 mills for operating purposes or a maximum of \$6.0774 for each \$1,000 of Taxable Value. Excluding taxes levied by other units of government, the City's property tax rates, expressed as a dollar for each \$1,000 of Taxable Value, for the fiscal years ended June 30, 2014 through 2018 are shown below. See "CITY TAXATION AND LIMITATIONS-State Limitations on Property Taxes" herein.

City of Grand Rapids, Michigan Property Tax Rates Fiscal Years Ended June 30, 2014 Through 2018

<u>Levy</u> <u>July 1</u>	<u>Fiscal Year</u> <u>Ended June 30</u>	<u>Operating (1)</u>	<u>Other (2)</u>	<u>Library (3)</u>	<u>Parks(4)</u>	<u>Total</u>
2013	2014	\$6.1798	\$1.6116	\$0.3805	\$-	\$8.1719
2014	2015	6.1798	1.6115	0.3805	0.9800	9.1518
2015	2016	6.1798	1.6112	0.3805	0.9800	9.1515
2016	2017	6.1513	1.6112	0.3787	0.9754	9.1166
2017	2018	6.0774	1.6107	0.3741	0.9636	9.0258

- (1) Includes operating levies allocated for general, capital reserve and library purposes.
- (2) Includes refuse collection and disposal as well as promotional levies. See "CITY TAXATION AND LIMITATIONS – Property Taxes" herein.
- (3) In 1997 the City's electorate amended the City's Charter to increase its operating levy by 0.3950 mills for a period of twenty years commencing July 1, 1998 to be allocated and used solely for the City's public library facilities. Headlee-required millage rate rollbacks have reduced the authorized levy to 0.3741 mills.
- (4) In 2013, the City's electorate amended the City's Charter to increase its operating levy by 0.9800 mills for a period of seven years commencing July 1, 2014 to be allocated and used solely for the City public parks facilities. Headlee-required millage rate rollbacks have reduced the authorized levy to 0.9636.

Source: City of Grand Rapids

In addition to the City's property tax rates, businesses and residents of the City must pay property taxes to other units of local government. A State Education Tax of 6.0000 mills (the "SET") is levied by the State on all real property. To be eligible for state school aid, a local school district is also required to levy not more than the lesser of 18.0000 mills or the number of mills levied in 1993 for school operating purposes on non-homestead/non-PRE property. These property taxes are in lieu of those previously levied for local school district operating purposes.

Beginning with the City's fiscal year ended June 30, 2009, the Michigan Business Tax (the "MBT") exempts industrial personal property from the assessment of the 6.0000 mills SET and of the 18.0000 mills local school district operating millages. Commercial personal property is assessed the 6.0000 mills SET, but the MBT exempts commercial personal property from the assessment of 12.0000 mills of the 18.0000 mills local school district operating millages. Utility personal property is assessed the full 6.0000 mills SET and the full 18.0000 mills local school district operating millages. See "Personal Property Tax Reform," herein.

Total rates, expressed as a \$1.00 for each \$1,000 of Taxable Value, for the City's fiscal years ended June 30, 2014 through 2018, are as follows:

City of Grand Rapids, Michigan
PRE/Homestead⁽¹⁾ Property Tax Rates per \$1,000 of Taxable Value by Governmental Unit
Fiscal Years Ended June 30, 2014 Through 2018

<u>Governmental Unit</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
City of Grand Rapids ²	\$ 8.1719	\$ 9.1518	\$ 9.1515	\$ 9.1166	\$ 9.0258
County of Kent ³	5.3940	5.6196	5.6196	6.0596	6.0518
State of Michigan	6.0000	6.0000	6.0000	6.0000	6.0000
Grand Rapids Public Schools ⁴	3.6000	3.6000	3.8000	5.7449	4.2500
Kent Intermediate School District ⁵	4.6903	4.6903	4.7903	4.7903	5.6694
Grand Rapids Community College.....	1.7865	1.7865	1.7865	1.7865	1.7788
Interurban Transit Partnership	<u>1.4700</u>	<u>1.4700</u>	<u>1.4700</u>	<u>1.4688</u>	<u>1.4632</u>
Total	<u>\$31.1127</u>	<u>\$32.3182</u>	<u>\$32.6179</u>	<u>\$34.9667</u>	<u>\$34.2390</u>

- (1) *Principal Residence Exemption ("PRE")/Homestead Property* means a dwelling or unit in a multiple-unit dwelling subject to ad valorem property taxes that is owned and occupied as the principal residence by the owner of the dwelling or unit. PRE/Homestead includes all unoccupied property classified as agricultural adjacent and contiguous to the home of the owner that is not leased or rented by the owner to another person if the gross receipts of the agricultural or horticultural operations, if any, exceed the household income of the owner. If the gross receipts of the agricultural or horticultural operations do not exceed the household income of the owner, the homestead includes only 5 acres adjacent and contiguous to the home of the owner. PRE/Homestead includes a life care facility registered under the Living Care Disclosure Act, Act 440, Public Acts of Michigan, 1976, as amended. PRE/Homestead also includes property owned by a cooperative housing corporation and occupied as a principal residence by tenant stockholders.
- (2) In November, 2013, the City's electorate amended the City's Charter to increase its operating levy by 0.9800 mills for a period of seven years commencing July 1, 2014 to be allocated and used solely for the City's public parks facilities.
- (3) In August, 2014, the County of Kent electorate approved the renewal of 0.3244 mill for Senior Citizen Services, along with an increase of 0.1756 mill, for a total authorized millage of 0.5000 mill for Senior Citizen Services. In November, 2014, the County's electorate approved a new Veterans Services millage at the rate of 0.0500 mill for a period of eight years. The Veterans Services millage was first levied in December, 2014. In November, 2016, the County's electorate approved the creation of a "Zoo and Public Museum" operating millage at a rate of 0.4400 mill for a period of ten years, starting on December 1, 2016 and ending in 2025.
- (4) Debt and sinking fund millages through the fiscal year ended June 30, 2017 then debt millage only beginning with fiscal year ending June 30, 2018. The Grand Rapids Public Schools is the largest school district within the City. Portions of other school districts overlap the City's boundaries. Of those which do, the total PRE/Homestead millage rates for the fiscal year ended June 30, 2018 ranged from \$34.3990 to \$38.5890 for each \$1,000 of Taxable Value.
- (5) On May 2, 2017 the electorate approved a ten year "strong schools," operating levy of 0.9000 mills for distribution to local school districts beginning with the July 1, 2017 levy.

Source: City of Grand Rapids

City of Grand Rapids, Michigan
Non-PRE/Non-Homestead Property⁽¹⁾ Tax Rates per \$1,000 of Taxable Value by Governmental Unit
Fiscal Years Ended June 30, 2014 Through 2018

<u>Governmental Unit</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
City of Grand Rapids ²	\$ 8.1719	\$ 9.1518	\$ 9.1515	\$ 9.1166	\$ 9.0258
County of Kent ³	5.3940	5.6196	5.6196	6.0596	6.0518
State of Michigan	6.0000	6.0000	6.0000	6.0000	6.0000
Grand Rapids Public Schools ⁴	21.6000	21.6000	21.8000	23.7449	22.2500
Kent Intermediate School District ⁵	4.6903	4.6903	4.7903	4.7903	5.6694
Grand Rapids Community College.....	1.7865	1.7865	1.7865	1.7865	1.7788
Interurban Transit Partnership	<u>1.4700</u>	<u>1.4700</u>	<u>1.4700</u>	<u>1.4688</u>	<u>1.4632</u>
Total	<u>\$49.1127</u>	<u>\$50.3182</u>	<u>\$50.6179</u>	<u>\$52.9667</u>	<u>\$52.2390</u>

- (1) *Non-PRE / Non-Homestead Property* is property not included in the definition of *PRE / Homestead Property* (see Note 1 in the preceding table).
- (2) In November, 2013, the City’s electorate amended the City’s Charter to increase its operating levy by 0.9800 mills for a period of seven years commencing July 1, 2014 to be allocated and used solely for the City’s public parks facilities.
- (3) In August, 2014, the County of Kent electorate approved the renewal of 0.3244 mill for Senior Citizen Services, along with an increase of 0.1756 mill, for a total authorized millage of 0.5000 mill for Senior Citizen Services. In November, 2014, the County’s electorate approved a new Veterans Services millage at the rate of 0.0500 mill for a period of eight years. The Veterans Services millage was first levied in December, 2014. In November, 2016, the County’s electorate approved the creation of a "Zoo and Public Museum" operating millage at a rate of 0.4400 mill for a period of ten years, starting on December 1, 2016 and ending in 2025.
- (4) Operating, debt, and sinking fund millages through the fiscal year ended June 30, 2017 then operating and debt millages beginning with fiscal year ending June 30, 2018. The Grand Rapids Public Schools is the largest school district within the City. Portions of other school districts overlap the City’s boundaries. Of those which do, the total Non-PRE/Non-Homestead millage rates for the fiscal year ended June 30, 2018 ranged from \$52.3990 to \$56.3990 for each \$1,000 of Taxable Value.
- (5) On May 2, 2017 the electorate approved a ten year “strong schools,” operating levy of 0.9000 mills for distribution to local school districts beginning with the July 1, 2017 levy.

Source: City of Grand Rapids

Property Tax Collections

The City's fiscal year begins on July 1. Real and personal property taxes are due on July 1 and are payable without penalty until July 31. Property owners who have not paid their property taxes on or before July 31 are required to pay interest and penalties on, and collections fees with respect to, such unpaid taxes.

Personal property taxes that are delinquent as of March 1 following the City’s July 1 levy are collected by the City (“Delinquent Personal Property Taxes”). The City may bring suit to collect Delinquent Personal Property Taxes. The City may also seize the personal property to satisfy the tax lien thereon. The City’s Delinquent Personal Property Taxes are a small percentage of the tax roll. The City’s delinquent property taxes are removed from the tax roll after five years and represent an average of less than \$20,000 per year.

Real property taxes that are delinquent as of March 1 following the City's July 1 levy are turned over to Kent County (the "County") for collection ("Delinquent Real Property Taxes"). Such Delinquent Real Property Taxes are subject to additional penalties and interest charges by the County. Unless the Delinquent Real Property Taxes are paid within approximately 25 months from the date of delinquency, the underlying property may be foreclosed upon and sold at public auction.

The County has historically purchased the City's Delinquent Real Property Taxes from its delinquent tax payment fund. In return, the City has assigned the County all amounts due from the

taxpayers with respect to such Delinquent Real Property Taxes. As a result of these purchases the City's real property tax receipts have approached 100%.

The continued purchase of Delinquent Real Property Taxes may be dependent upon the sale of delinquent tax notes by the County for that purpose. There is no assurance that the County will issue such delinquent tax notes or purchase such Delinquent Real Property Taxes in any fiscal year. If the Delinquent Real Property Taxes are not purchased by the County, any Delinquent Real Property Taxes collected by the County are remitted to the City within a month following the County's collection those past due taxes. The following table reflects the actual property tax collections for the City's fiscal years ended June 30, 2014 through 2018.

**City of Grand Rapids, Michigan
Property Tax Collections
Fiscal Years Ended June 30, 2014 Through 2018**

<u>July 1 Levy</u>	<u>Fiscal Year Ended June 30</u>	<u>City Tax Levy (1)</u>	<u>Collections to March 1 Following Levy (2)</u>	<u>Percent Collected</u>
2012	2013	\$35,786,676	\$34,299,635	95.8%
2013	2014	35,010,467	33,635,522	96.1
2014	2015	39,110,022	37,771,211	96.6
2015	2016	40,157,067	38,924,701	96.9
2016	2017	40,504,385	39,353,188	97.2
2017	2018	41,522,680	40,496,437	97.5

- (1) Excludes taxes on properties granted tax abatement under Act 198, Act 146, Act 147, Act 210 and Act 260. See "CITY TAXATION AND LIMITATIONS - Property Valuations" and "CITY TAXATION AND LIMITATIONS - Tax Abatement" herein.
- (2) Excludes real property taxes turned over to Kent County for collection March 1.
- (3) In November, 2013, City voters amended the City's Charter to increase its operating levy by 0.9800 mills to support the repair and rehabilitation of existing park equipment and facilities; investing in new park equipment and facilities; and opening the City's swimming pools for longer seasons. The term of the temporary millage is seven years and commenced with the July 1, 2014 property tax levy. In its first year, the Parks millage levy resulted in fiscal year ended June 30, 2015 revenues in the amount of \$3,839,507.

Source: City of Grand Rapids

Pursuant to Act 197, Public Acts of Michigan, 1975, as amended (the Downtown Development Authority Act), Act 281, Public Acts of Michigan, 1986, as amended (the Local Development Financing Act), Act 381, Public Acts of Michigan, 1996, as amended (the Brownfield Redevelopment Financing Act), Act 450, Public Acts of Michigan, 1980, as amended (the Tax Increment Finance Authority Act), and Act 280, Public Acts of Michigan, 2005, as amended (the Corridor Improvement Authority Act), the City has established authorities which capture property tax increment pursuant to these acts. The City's general operating revenues reflected in its audited financial statements are net of such capture.

Taxpayers with Largest Valuations

The taxpayers with the largest valuations in the City, their principal product or service, Total Taxable Value and percent of City's Total Taxable Value for the fiscal year ended June 30, 2018 are as follows:

City of Grand Rapids, Michigan Top Ten Largest Valuations ⁽¹⁾ Fiscal Year Ended June 30, 2018

<u>Taxpayer</u>	<u>Principal Product or Service</u>	<u>Total Taxable Value (2)</u>	<u>Percent of Total (3)</u>
Consumers Energy Company	Electric utility	\$83,641,676	1.79%
Amway Hotel Corporation	Lodging, dining, and retail	40,056,941	0.86
Centerpoint Owners LLC	Retail shopping center	30,451,600	0.65
HP3 LLC	Lodging, dining, and retail	24,451,260	0.52
DTE Gas Company	Gas utility	21,275,300	0.46
Kellogg/Keebler Subsidiary(4)	Food manufacturer	17,856,612	0.38
Spectrum Health Hospitals	Healthcare	17,416,913	0.37
Fifth Third Bank	Banking / real estate holding	17,254,066	0.37
Steelcase, Inc.	Office furniture design / manufacturing	16,839,900	0.36
Meijer Inc	Retailer	<u>15,703,698</u>	<u>0.34</u>
		\$284,947,966	6.10%

(1) Property taxpayers and Taxable Value are based on the July 1, 2017 tax bills.

(2) Includes the Equivalent Taxable Value of property granted tax abatement under Act 198, Act 146, Act 147, Act 210, and Act 260. See "CITY TAXATION AND LIMITATIONS – Tax Abatements" herein.

(3) Based on \$4,672,828,953 which is the City's Total Taxable Value for the fiscal year ended June 30, 2018. Includes the Taxable Value of property granted tax abatement under Act 198, Act 146, Act 147, Act 210, and Act 260, as applicable. See "CITY TAXATION AND LIMITATIONS – Property Valuations" and "CITY TAXATION AND LIMITATIONS – Tax Abatement" herein.

(4) Keebler Company, a division of Kellogg USA Inc., real and personal property was eligible through 2017 for property tax exemptions under Act 376, Public Acts of Michigan, 1996, as amended. The exemptions will be reduced to 0% beginning with the roll year 2018.

Source: City of Grand Rapids

City Income Tax

In 1967, the City's electorate approved a two mill reduction in the City's maximum authorized general operating millage and the implementation of an income tax imposed on income earned within the City regardless of the residence of the taxpayer and on all income of City residents. Income taxed includes business net income and individuals' salaries and wages. Up to and including the calendar year ending December 31, 1995, residents paid 1% and non-residents paid 0.5%. In 1995, the City's electorate authorized an increase in the income tax from 1.0 % to 1.3% for residents and from 0.5% to 0.65% for non-residents effective January 1, 1996. At the same time, the City's electorate voted to amend the City Charter to annually dedicate an appropriation of not less than 32% of the City's general operating fund budget to provide police services so long as an income tax of at least 1.3% for residents and 0.65% for non-residents is collected. In May 2010, the City's electorate authorized a temporary increase in the income tax from 1.3% to 1.5% for residents and from 0.65% to 0.75% for non-residents effective July 1, 2010 through June 30, 2015. On May 6, 2014, the City's electorate voted to amend the City Charter to extend the temporary increases in the resident and non-resident income tax rates for an additional term of fifteen years, commencing July 1, 2015, to provide funds for constructing, reconstructing, repairing and rehabilitating various public streets, roads, sidewalks, and adjacent or related rights of way, property, and easements.

Dependency exemptions are allowed on individual returns, with other exemptions available as well. Beginning July 1, 2010, the dependency exemption was lowered from \$750 to \$600 per dependent. Set forth below is a five year history of income tax collections.

**City of Grand Rapids, Michigan
Income Tax Collections
Fiscal Years Ended June 30, 2014 Through 2018**

<u>Fiscal Years Ended June 30</u>	<u>Gross Tax Collections ¹</u>	<u>Less: Refunds</u>	<u>Net Income Tax Collections ¹</u>	<u>% Increase or (Decrease) over Prior Year</u>
2014 ²	\$85,828,713	\$8,254,376	\$77,574,337	2.79%
2015 ³	90,913,513	8,943,101	81,970,412	5.67
2016 ⁴	96,581,795	8,407,544	88,174,251	7.57
2017 ⁵	104,415,947	10,397,109	94,018,838	6.63
2018 ⁶	108,078,406	9,537,937	98,540,469	4.81

¹ Including interest and penalties.

² Net collections were \$67,303,469 net of temporary income tax increase effective July 1, 2010.

³ Net collections were \$71,077,962 net of temporary income tax increase effective July 1, 2010.

⁴ Net collections were \$76,331,950 net of temporary income tax increase effective July 1, 2010.

⁵ Net collections were \$81,483,331 net of temporary income tax increase effective July 1, 2010.

⁶ Net collections were \$85,402,578 net of temporary income tax increase effective July 1, 2010.

Source: City of Grand Rapids

REVENUES FROM THE STATE OF MICHIGAN

The City receives revenue sharing payments from the State of Michigan under the State Constitution and the State Revenue Sharing Act of 1971, as amended. The revenue sharing payments are composed of two components – a constitutional distribution and a statutory distribution.

The constitutional distribution is mandated by the State Constitution and distributed on a per capita basis to townships, cities and villages. The amount of the constitutionally mandated revenue sharing component distributed to the City can vary depending on the population of the City compared to other units in the State and the amounts of sales tax revenues received by the State.

The statutory distribution is authorized by legislative action and distribution is subject to annual State appropriation by the State Legislature. Statutory distributions may be reduced or delayed by Executive Order during any State fiscal year in which the Governor, with the approval of the State Legislature’s appropriations committees, determines that actual revenues will be less than the revenue estimates on which appropriations were based.

Over the last several years, the State of Michigan has modified the statutory revenue sharing program several times which has caused the City and other local government units to complete required “best practices” in order to remain eligible for distribution of funds. Currently, statutory revenue sharing is distributed under a program called the City, Village, and Township Revenue Sharing Program or CVTRS which began in fiscal year 2015. To remain eligible for distribution the City must certify to the Michigan Department of Treasury that by December 1 of each year the local unit has produced and made the following documents readily available to the public:

- 1) Citizen’s guide of its most recent local finances, including recognition of its unfunded liabilities
- 2) Performance Dashboard
- 3) Debt Service Report containing a detailed listing of its outstanding debt and debt service requirements
- 4) Projected Budget Report of revenues and expenditures

As the State of Michigan has modified the statutory revenue sharing program over time, the City has consistently met the requirements and has received 100% of eligible payments since their inception.

In the fiscal year ended June 30, 2018 the City received total revenue sharing in the General Fund of \$18,280,900. This includes one-half of the statutory revenue sharing amount which totals \$2,644,539. The remaining statutory revenue sharing for the fiscal year ended June 30, 2018 was deposited into the City's Capital Reserve Fund.

While the City intends to fully meet future requirements under the current CVTRS program, purchasers of City bonds should be aware that further modifications to statutory revenue sharing payments to Michigan local governmental units are possible. With the inclusion of half the estimated annual statutory revenue payments in the City's general fund budget, the loss of all or part of these revenues could negatively impact the City's general fund possibly requiring the City to seek other sources of revenue and/or expenditure reductions.

The following table sets forth the annual revenue sharing payments and other moneys received for the City's general operating fund for the fiscal years ended June 30, 2014 through June 30, 2018.

**City of Grand Rapids, Michigan
General Operating Fund Revenues from the State of Michigan
Fiscal Years Ended June 30, 2014 Through 2018**

	<u>2014</u>	<u>2015</u>	<u>2016</u> ²	<u>2017</u> ²	<u>2018</u> ²
Sales Tax	\$14,068,013 ¹	\$14,288,969 ¹	\$17,817,900	\$17,742,537	\$18,280,900
Grants and Other	<u>647,941</u>	<u>597,846</u>	<u>677,729</u>	<u>717,276</u>	<u>459,166</u>
Total Revenues from the State of Michigan ²	<u>\$14,715,954</u>	<u>\$14,886,815</u>	<u>\$18,495,629</u>	<u>\$18,459,813</u>	<u>\$18,740,066</u>

¹ Constitutional revenue sharing only.

² Beginning with the fiscal year ended June 30, 2016, the City budgeted half of CVTRS statutory revenue sharing payments in the General Fund.

<u>Year</u>	<u>Fund</u>	<u>Total Annual CVTRS</u>
FY2014	Transformation	\$5,132,391
FY2015	½ Transformation; ½ Capital Reserve	\$5,289,078
FY2016	½ General, ½ Capital Reserve	\$5,289,078
FY2017	½ General, ½ Capital Reserve	\$5,289,078
FY2018	½ General, ½ Capital Reserve	\$5,289,078

Source: City of Grand Rapids

CITY DEBT

Statutory and Constitutional Debt Provisions

Section 21 of Article VII of the State Constitution establishes the authority, subject to statutory and constitutional limitations, for municipalities to incur debt for public purposes:

"The legislature shall provide by general laws for the incorporation of cities and villages. Such laws shall limit their rate of ad valorem property taxation for municipal purposes, and restrict the powers of cities and villages to borrow money and contract debts. Each city and village is granted power to levy other taxes for public purposes, subject to limitations and prohibitions provided by this constitution or by law."

In accordance with the foregoing authority granted to the State Legislature, the Home Rule City Act limits the amount of debt a city may have outstanding at any time. Section 4(a) of this Act provides:

"... the net indebtedness incurred for all public purpose may be as much as but shall not exceed the greater of the following:

- (a) Ten percent of the assessed value of all real and personal property in the city.
- (b) Fifteen percent of the assessed value of all the real and personal property in the city if that portion of the total amount of indebtedness incurred which exceeds 10% is or has been used solely for the construction or renovation of hospital facilities."

Significant exceptions to the debt limitation are permitted by the Home Rule City Act for certain types of indebtedness which include: special assessment bonds and State transportation fund bonds (formerly, motor vehicle highway fund bonds), even though they are a general obligation of the City; revenue bonds payable from revenues only, whether secured by a mortgage or not; bonds issued or contract obligations or assessments incurred to comply with an order of the Water Resources Commission of the State or a court of competent jurisdiction, and obligations incurred for water supply, sewage, drainage or refuse disposal or resource recovery projects necessary to protect the public health by abating pollution.

Grand Rapids Municipal Bond Ratings

The City's financial status is regularly reviewed by municipal bond rating agencies. The City's most recent limited tax general obligation (LTGO) bonds were issued in December, 2018 and were rated Aa2 by Moody's and AA by Standard & Poor's. The most recent Sanitary Sewer System bonds were issued in June, 2018 and were rated Aa1 by Moody's and AA by Standard & Poor's. The Water Supply System bonds were rated Aa2 by Moody's and AA by Standard & Poor's for its most recent issue in September, 2018.

Legal Debt Margin

Pursuant to the statutory and constitutional debt provisions set forth herein, the following table reflects the amount of additional debt the City may legally incur as of July 2, 2018.

Debt Limit ⁽¹⁾	\$568,082,080
Debt Outstanding ⁽²⁾	\$531,529,749
Less: Exempt Debt	<u>(387,033,230)</u>
Legal Debt Margin ⁽²⁾	<u>\$144,496,519</u>
	<u>\$423,585,561</u>

(1) 10% of \$5,680,820,800, which is the City's Total SEV for the fiscal year ended June 30, 2018. Includes the SEV of property granted tax abatement under Act 198, Act 146, Act 147, Act 210, and Act 260.

(2) See "CITY DEBT –Statutory and Constitutional Debt Provisions" herein.

Sources: Municipal Advisory Council of Michigan and the City of Grand Rapids

Debt Statement

The following table reflects a breakdown of the City's direct debt as of July 2, 2018. Direct debt shown as self-supporting is paid from sources other than the City's property and income taxes. The City's ability to levy taxes to pay the debt service on obligations designated as "Limited Tax" is subject to applicable charter, statutory and constitutional limitations. See "CITY TAXATION AND LIMITATIONS" herein.

<u>City Direct Debt</u>	<u>Gross</u>	<u>Self-Supporting</u>	<u>Net</u>
Share of County Issued Bonds:			
Dated November 15, 2016 (Limited Tax)	\$8,150,000	\$ -	\$8,150,000
Dated December 3, 2014 (Limited Tax)	4,030,000	-	4,030,000
Dated March 28, 2013 (Limited Tax)	21,109	-	21,109
Dated September 30, 2008 (Limited Tax)	890,000	-	890,000
Subtotal.....	<u>\$13,091,109</u>	<u>\$ -</u>	<u>\$13,091,109</u>
Building Authority Bonds:			
Dated July 28, 2011 (Limited Tax)	\$ 11,005,000	\$ -	\$ 11,005,000
Dated September 15, 2010 (Limited Tax, Series C)	5,690,000	-	5,690,000
Dated March 30, 2010 (Limited Tax, Series A)	1,770,000	-	1,770,000
Dated March 30, 2010 (Limited Tax, Series B)	2,215,000	-	2,215,000
Dated March 4, 2009 (Limited Tax)	5,705,000	-	5,705,000
Dated December 23, 2008 (Limited Tax)	415,000	-	415,000
Dated November 18, 2004 (1)	11,335,000	11,335,000	-
Dated June 15, 2002 (1)	11,615,000	11,615,000	-
Subtotal.....	<u>\$49,750,000</u>	<u>\$22,950,000</u>	<u>\$26,800,000</u>
Tax Increment Authority Bonds:			
Dated March 8, 2017 (Limited Tax) (2)	\$ 21,190,000	\$ 21,190,000	\$ -
Dated June 12, 2012 (Limited Tax)	1,915,000	1,915,000	-
Dated March 18, 2009 (Limited Tax) (2)	3,510,000	3,510,000	-
Dated November 15, 1994	144,554	144,554	-
Subtotal.....	<u>\$26,759,554</u>	<u>\$26,759,554</u>	<u>\$ -</u>
Water Revenue Bonds:			
Senior Lien			
Dated September 22, 2016	\$ 36,740,000	\$ 36,740,000	\$ -
Dated February 25, 2015	25,370,000	25,370,000	-
Dated March 13, 2013	2,030,000	2,030,000	-
Dated May 6, 2009	715,000	715,000	-
Dated March 18, 1993	7,200,000	7,200,000	-
Junior Lien			
Dated April 11, 2016 (4)	1,983,008	1,983,008	-
Dated April 9, 2015 (3)	9,619,250	9,619,250	-
Dated September 17, 2014 (4)	2,517,840	2,517,840	-
Dated December 14, 2012 (4)	533,514	533,514	-
Dated September 18, 2012 (4)	2,730,930	2,730,930	-
Dated September 23, 2011 (4)	2,186,024	2,186,024	-
Dated June 24, 2011 (4)	581,549	581,549	-
Dated April 8, 2011 (4)	654,752	654,752	-
Subtotal.....	<u>\$92,861,867</u>	<u>\$92,861,867</u>	<u>\$ -</u>

<u>City Direct Debt</u>	<u>Gross</u>	<u>Self-Supporting</u>	<u>Net</u>
Sewer Revenue Bonds:			
Senior Lien			
Dated June 13, 2018	\$ 43,400,000	\$ 43,400,000	\$ -
Dated March 3, 2016	48,410,000	48,410,000	-
Dated October 8, 2014	52,970,000	52,970,000	-
Dated May 16, 2013	35,580,000	35,580,000	-
Dated October 10, 2012	25,530,000	25,530,000	-
Dated December 15, 2010 (Series A)	21,330,000	21,330,000	-
Dated December 15, 2010 (Series B)	1,955,000	1,955,000	-
Dated January 26, 2010	29,625,000	29,625,000	-
Dated July 1, 1998	15,355,000	15,355,000	-
Junior Lien			
Dated April 9, 2013 (4)	919,125	919,125	-
Dated June 24, 2011 (4)	1,295,370	1,295,370	-
Dated April 8, 2011 (4)	3,474,305	3,474,305	-
Subtotal.....	<u>\$279,843,800</u>	<u>\$279,843,800</u>	<u>\$ -</u>
Installment Purchase Notes:			
Dated November 14, 2014 (Limited Tax)	\$1,230,610	\$ -	\$1,230,610
Dated August 22, 2012 (Limited Tax)	261,800	-	261,800
Subtotal.....	<u>\$1,492,410</u>	<u>\$ -</u>	<u>\$1,492,410</u>
Limited Tax General Obligation Bonds:			
Dated April 5, 2017 (Capital Improv Bonds)	\$ 3,250,000	\$ -	\$ 3,250,000
Dated March 31, 2016 (Capital Improv Bonds)	13,810,000	-	13,810,000
Dated February 4, 2016 (Limited Tax)	19,360,000	-	19,360,000
Dated August 26, 2015 (Capital Improv Bonds)	15,000,000	-	15,000,000
Dated October 11, 2013 (Capital Improv Bonds)	1,970,000	-	1,970,000
Subtotal.....	<u>\$53,390,000</u>	<u>\$ -</u>	<u>\$53,390,000</u>
Share of Grand Valley Regional Biosolids Authority Bonds:			
Dated April 1, 2008 (5)	\$ 6,235,824	\$ 6,235,824	\$ -
Dated September 20, 2007 (5)	6,940,128	6,940,128	-
Subtotal.....	<u>\$13,175,952</u>	<u>\$13,175,952</u>	<u>\$ -</u>
Total Direct Debt	<u>\$530,364,692</u>	<u>\$435,591,173</u>	<u>\$94,773,519</u>
Total Direct Debt			
Per Capita Net Direct Debt (6)			\$504.01
Percent of Net Direct Debt to Total SEV (7)			1.67%

Overlapping Debt (8)	Gross	City Share As Percent of Gross	Net
Caledonia Community Schools	\$114,305,034	0.07%	\$ 80,014
Forest Hills Public Schools	119,270,000	2.10%	2,504,670
Godwin Heights Public Schools	16,395,000	5.63%	923,039
Grand Rapids Public Schools	158,135,000	99.99%	158,119,187
Kenowa Hills Public Schools	71,050,000	0.34%	241,570
Kentwood Public Schools	60,165,000	7.97%	4,795,151
Kent County	130,875,000	21.02%	27,509,925
Grand Rapids Community College	40,145,000	20.35%	8,169,508
Total Overlapping Debt	\$710,340,034		\$202,343,064
Total City Direct and Overlapping Debt	\$1,240,704,726		\$297,116,583

Per Capita Net Overlapping Debt (6)	\$1,076.06
Percent of Net Overlapping Debt to Total SEV (7)	3.56%
Per Capita Net Direct and Overlapping Debt (6).....	\$1,580.07
Percent of Net Direct and Overlapping Debt to Total SEV (7)	5.23%

- (1) Debt service is payable only from rental revenues received from the State of Michigan.
- (2) Although not pledged as security for these general obligation bonds, the City of Grand Rapids and its Downtown Development Authority (GR-DDA) have entered into an agreement which provides that the GR-DDA will reimburse the City in amounts equal to the semi-annual debt service payments.
- (3) Bonds have been issued for which the maximum principal will be \$9,470,750 less any principal forgiveness and prior year principal payments.
- (4) Principal outstanding is based on total bond proceeds expended for this completed project, less prior year principal payments and any principal forgiveness.
- (5) Estimated based on total debt allocated to the City of Grand Rapids.
- (6) Based on the City's 2010 Census of 188,040.
- (7) Based on \$5,680,820,800 which is the City's Total SEV for the fiscal year ended June 30, 2018. Includes the SEV of property granted tax abatements under Act 198, Act 146, Act 147, Act 210, and Act 260. See the "Tax Abatements," section of this annual report.
- (8) Overlapping debt is the portion of another taxing unit's debt for which owners of property located within the City are liable, in addition to the debt directly issued by the City. Overlapping debt is calculated as of August 22, 2018.

Sources: City of Grand Rapids and the Municipal Advisory Council of Michigan.

Schedule of Remaining Bond Maturities

The following table sets forth the remaining annual maturities of the City's bonded indebtedness by type of issue as of July 2, 2018:

Fiscal Yr Ending June 30	County Issued Bonds	Building Authority Bonds	Tax Increment Authority Bonds	Sewer Revenue Bonds	Water Revenue Bonds	Installment Purchase Notes	Limited Tax General Obligation	Biosolids Authority Bonds ¹	TOTALS
2019	\$ 776,109	\$ 4,945,000	\$ 5,844,554	\$ 9,475,000	\$ 6,585,000	\$ 245,454	\$ 3,050,000	\$ 1,077,360	\$ 31,998,477
2020	775,000	4,745,000	6,385,000	8,935,000	6,820,000	250,342	3,540,000	1,099,872	32,550,214
2021	805,000	4,980,000	6,460,000	9,335,000	3,255,000	255,355	18,405,000	1,125,600	44,620,955
2022	515,000	3,195,000	6,610,000	11,210,000	3,385,000	260,495	3,540,000	1,144,896	29,860,391
2023	530,000	2,950,000	125,000	11,765,000	3,545,000	262,565	3,705,000	1,170,624	24,053,189
2024	555,000	3,095,000	130,000	12,345,000	3,700,000	218,199	3,875,000	1,196,352	25,114,551
2025	580,000	3,255,000	135,000	12,950,000	3,855,000	-	4,055,000	1,218,864	26,048,864
2026	600,000	3,420,000	135,000	13,590,000	4,020,000	-	4,250,000	1,244,592	27,259,592
2027	625,000	3,595,000	140,000	14,275,000	4,210,000	-	2,300,000	1,273,536	26,418,536
2028	650,000	3,780,000	145,000	14,915,000	4,390,000	-	1,975,000	1,299,264	27,154,264
2029	680,000	3,980,000	155,000	10,890,000	4,295,000	-	1,100,000	1,324,992	22,424,992
2030	705,000	1,365,000	160,000	11,400,000	4,470,000	-	1,140,000	-	19,240,000
2031	740,000	1,425,000	165,000	11,930,000	4,660,000	-	320,000	-	19,240,000
2032	775,000	1,495,000	170,000	12,494,305	4,871,301	-	330,000	-	20,135,606
2033	810,000	580,000	-	12,815,370	4,974,538	-	340,000	-	19,519,908
2034	840,000	605,000	-	14,974,125	4,965,930	-	350,000	-	21,735,055
2035	880,000	625,000	-	13,385,000	4,977,840	-	360,000	-	20,227,840
2036	610,000	650,000	-	8,840,000	2,773,008	-	375,000	-	13,248,008
2037	640,000	255,000	-	9,270,000	2,755,000	-	380,000	-	13,300,000
2038	-	260,000	-	9,725,000	2,244,250	-	-	-	12,229,250
2039	-	270,000	-	7,915,000	2,345,000	-	-	-	10,530,000
2040	-	280,000	-	8,275,000	705,000	-	-	-	9,260,000
2041	-	-	-	8,645,000	745,000	-	-	-	9,390,000
2042	-	-	-	4,815,000	780,000	-	-	-	5,595,000
2043	-	-	-	2,865,000	820,000	-	-	-	3,685,000
2044	-	-	-	3,015,000	860,000	-	-	-	3,875,000
2045	-	-	-	2,275,000	905,000	-	-	-	3,180,000
2046	-	-	-	2,385,000	950,000	-	-	-	3,335,000
2047	-	-	-	2,505,000	-	-	-	-	2,505,000
2048	-	-	-	2,630,000	-	-	-	-	2,630,000
TOTALS	\$ 13,091,109	\$ 49,750,000	\$ 26,759,554	\$ 279,843,800	\$ 92,861,867	\$ 1,492,410	\$ 53,390,000	\$ 13,175,952	\$ 530,364,692

Note 1: Estimated annual maturities because the City's shares vary from year to year based on its shares of total Biosolids treated and disposed of at the Biosolids facility, which is jointly owned and operated by the City and the City of Wyoming.

SOURCE: The City of Grand Rapids

Debt History

There is no record of default on obligations by the City since 1933.

Short Term Borrowing

No short-term borrowing is being utilized except to the extent of the City's participation in the County delinquent tax payment fund. See "CITY TAX AND LIMITATIONS – Property Tax Collections" herein.

Operating Lease

In 1998, the Kent County Building Authority sold \$65,650,000 of bonds to finance the construction of a new courthouse. In November, 2005 the Kent County Building Authority refunded a portion of such outstanding bonds with a \$49,990,000 issue of refunding bonds. The City entered into a 28 year operating lease with Kent County to utilize approximately 31.35% of the facility to house the 61st District Court and related City facilities. The City pays the Kent County Building Authority 31.35% of the debt service payments on the bonds issued for the courthouse as well as its proportionate share of facility operating and maintenance costs.

Future Financing

Within the eighteen months following June 30, 2018 the City plans to issue several bond issues.

On September 20, 2018 the City issued Water Supply System (WSS) Revenue Improvement and Refunding Bonds, Series 2018 in the amount of \$38,680,000 with interest rates ranging from 4% to 5% with maturities at varying amounts from January 2019 to 2048. The net proceeds of \$42,875,450 (including premium of \$4,412,163 less underwriter's discount of \$216,713) are being used to pay the costs of improvements to the WSS; to pay the costs of issuing the bonds; to fund a debt service reserve fund; and for deposit into an escrow fund for the redemption of \$7,200,000 of the WSS Series 1993 term bonds. The net carrying value of the old debt exceeded the reacquisition price by \$149,913 which will be amortized over the life of the refunded debt, which is shorter than the new debt. The bonds are self-liquidating bonds and are not a general obligation of the City. Debt service will be funded solely from the net revenues derived from operation of the WSS.

On December 18, 2018 the City issued Limited Tax General Obligation ("LTGO") Capital Improvement Bonds, Series 2018 in the amount of \$8,210,000 with interest rates ranging from 3% to 5% with maturities at varyon amounts from October 1, 2022 to 2041. The \$8,933,931.85 net proceeds (including premium of \$785,506.85 less underwriter's discount of \$61,575.00) will be used for capital upgrades and improvements to the City's street lighting system and to pay for the costs of issuing the bonds. The improvements will be part of an on-going asset management strategy to improve this asset class into a sustainable condition including upgraded vaults, poles, and transmission lines as well as eventually upgrading the entire system to light emitting diode technology. A second series of debt, currently estimated at \$10 million, is proposed for the fiscal year ending June 30, 2022 to continue implementing this asset management strategy.

In summer 2019, the City expects to issue an LTGO bond issue in the amount not to exceed \$6.4 million for Lyon Square Plaza and Edge Park. This is expected to be a joint project in cooperation with the City's Downtown Development Authority and other partners, including private donors. These proposed Series 2019 improvement bonds will be issued under the authorization of Michigan Public Act 34 of 2001, as amended.

The City will assist the State of Michigan if it determines to refund the Grand Rapids Building Authority (the "GRBA") Series 2002A bonds and the GRBA Series 2004A bonds, both of which were issued by the GRBA on behalf of the State of Michigan.

Any outstanding City bond issue which becomes eligible for refunding based on optional redemption covenants will be considered for refunding if the net present value ("NPV") refunding savings meets or exceeds the City's 5% NPV savings threshold.

EMPLOYEE BENEFITS AND LABOR CONTRACTS

Vacation and Sick Leave Benefits and Associated Liabilities

Employees of the City can earn up to 27 days of paid vacation per year based on various years of service formulas outlined in bargaining unit contracts and non-represented staff benefit plans. Unless an unusual exception is granted by the City Manager, the use, conversion, and carryover of paid vacation time is established by the current contract for each bargaining unit and can vary from one bargaining unit to another. Terminated or retiring employees are paid for unused vacation days.

Depending on the bargaining unit, employees of the City may also earn from one-half day to one day of paid sick leave per month depending on the particular labor contract. Based on the number of years of service, employees are paid for up to 90 days of accumulated sick leave at termination or retirement provided they have worked a minimum of 10 continuous years. At time of retirement, employees can also elect to purchase pension service credit with unused sick leave hours.

The City accrues paid vacation and sick leave liabilities as assigned fund equity on the Governmental Fund Balance Sheet. For the fiscal year ended June 30, 2018, the amount of \$6,614,913 was so assigned for the City's General Fund.

Other Postemployment Benefits

In June, 2004 the Governmental Accounting Standards Board ("GASB") issued its Statement 45 – "Accounting and Financial Reporting by Employers for Postemployment Benefits Other than Pensions." Other postemployment benefits ("OPEB") include postemployment healthcare insurance as well as other forms of postemployment benefits (for example, life insurance) when provided separately from a pension plan. GASB Statement 45 established standards for the measurement, recognition, and display of OPEB expense/expenditures and related liabilities (assets), note disclosures, and, if applicable, required supplementary information in the financial reports of state and local governmental employers.

The City provides postemployment healthcare insurance until age 65 (or the date of Medicare eligibility depending on the labor contract) for its employees who retire prior to age 65, were hired prior to 2009, and meet other criteria. Similar to other governmental units, the City historically funded its OPEB program on a pay-as-you-go basis prior to 2007; however with the implementation of GASB 45, the City began reporting OPEB costs and also contributing to the unfunded liability.

Modifications to the retiree health care benefit have been made with the goal of reducing the long-term liability. All new hires since 2009 participate in a defined contribution ("DC") retiree health care plan which is a retirement health savings plan ("RHSA") rather than a defined benefit plan. Currently approximately 62% of City employees are participating in the DC RHSA. Employees who remain in the closed defined benefit ("DB") plans now earn the benefit incrementally over the course of their careers, and employees who retire after June 30, 2010 will "float" with active employees relative to health care plan design and premium sharing.

GASB Statement 45 requires that OPEB assets be held within an irrevocable trust fund in order to be considered "Plan Assets." During 2010, the City established three irrevocable trusts to accumulate the assets for fulfilling the postemployment benefits obligations. In September, 2010 the City's Public Library established a fourth Retiree Health Care Plan which removed existing departmental retirees and a small number of active employees from the City's General Plan.

The four single employer DB OPEB plans provide other postemployment benefits consisting of health care benefits for eligible retirees and their eligible dependents until the retiree is age 65 (or Medicare eligible, depending on the particular labor contract). All four DB plans are closed to new entrants.

Three of the plans are agent plans administered by the Municipal Employees Retirement System of Michigan (“MERS”). Actuarial reports for the three agent plans are prepared annually. The actuarial for the three agent plans is Gabriel, Roeder, Smith and Company of Southfield, Michigan. The Library Board decided the Library will fund their postemployment benefits on a pay-as-you-go basis – as of June 30, 2018 only one retiree remains eligible for other postemployment benefits.

The most recent actuarial valuation studies were completed as of June 30, 2017. The reports use a assumed investment return rate of 5%, a blend of short-term and long-term investment return assumptions, because plan assets are held in trusts and invested by MERS. The 5% investment rate of return is believed to be appropriate because the plans have been closed to new entrants and, therefore, a shorter time horizon for investing is deemed to be appropriate.

Current employees not covered by one of the DB OPEB plans are covered by the DC RHSA plan created in 2009 and administered by MERS. The plans do not issue separate financial statements. However, basic financial information regarding assets, liabilities and net position, basis of accounting and funding policy is included in Note 8 of the City’s Comprehensive Annual Financial Report.

**City of Grand Rapids
Statement of Changes in Net Position
For the Fiscal Year Ended June 30, 2018**

	<u>Retiree Health Care Trust Funds</u>			
	<u>General Employee</u>	<u>Police Retiree</u>	<u>Fire Retiree</u>	<u>Total Retiree Health Care Trust Funds</u>
ADDITIONS				
Employer contributions	\$5,510,302	\$4,251,612	\$2,999,906	\$12,761,820
Investment income (loss):				
Interest and dividends	4,712	4,339	2,245	11,296
Net appreciation (depreciation) in fair value of investments	<u>599,407</u>	<u>2,296,557</u>	<u>1,325,610</u>	<u>4,221,574</u>
Total Additions	<u>6,114,421</u>	<u>6,552,508</u>	<u>4,327,761</u>	<u>16,994,690</u>
DEDUCTIONS				
Benefits paid (1)	5,181,856	1,926,606	2,256,796	9,365,258
Administration expenses	<u>177,180</u>	<u>143,142</u>	<u>111,952</u>	<u>432,274</u>
Total Deductions	<u>5,359,036</u>	<u>2,069,748</u>	<u>2,368,748</u>	<u>9,797,532</u>
Change in Net Position	755,385	4,482,760	1,959,013	7,197,158
Total net position – beginning	<u>9,830,783</u>	<u>29,267,699</u>	<u>17,197,706</u>	<u>56,296,188</u>
Total net position - ending	<u>\$10,586,168</u>	<u>\$33,750,459</u>	<u>\$19,156,719</u>	<u>\$63,493,346</u>

Note 1: Plan member (retiree) premium contributions of \$1,127,669 are shown as reductions of benefits paid, rather than as revenue.

Source: Gabriel, Roeder, Smith and Company

**City of Grand Rapids
Other Postemployment Benefits Plan Membership
At the June 30, 2017 Valuation Date**

	<u>General</u>	<u>Police</u>	<u>Fire</u>	<u>TOTAL</u>
Retirees and beneficiaries receiving benefit payments	294	100	99	493
Non-covered retirees purchasing benefit at subsidized rate	-	3	-	3
Inactive plan members entitled to but not yet receiving benefit payments	-	26	6	32
Active plan members	292	140	137	569
Employees eligible to purchase benefit at subsidized rate after retirement	<u>544</u>	<u>157</u>	<u>64</u>	<u>765</u>
TOTAL	<u>1,130</u>	<u>426</u>	<u>306</u>	<u>1,862</u>

City of Grand Rapids
Other Postemployment Benefits Plan Membership
At the June 30, 2018 Valuation Date

	<u>General</u>	<u>Police</u>	<u>Fire</u>	<u>TOTAL</u>
Retirees and beneficiaries receiving benefit payments	245	94	102	441
Non-covered retirees purchasing benefit at subsidized rate	-	3	-	3
Inactive plan members entitled to but not yet receiving benefit payments	-	8	2	10
Active plan members	259	127	125	511
Employees eligible to purchase benefit at subsidized rate after retirement	<u>606</u>	<u>172</u>	<u>62</u>	<u>840</u>
TOTAL	<u>1,110</u>	<u>404</u>	<u>291</u>	<u>1,805</u>

Source: Gabriel, Roeder, Smith and Company for both tables

City of Grand Rapids
Net Other Postemployment Benefits Liability Components
On June 30, 2018

	<u>General</u>	<u>Police</u>	<u>Fire</u>	<u>TOTAL</u>
Total OPEB Liability	\$54,585,545	\$64,501,757	\$40,897,069	\$159,984,371
Less: Plan Fiduciary Net Position	<u>10,586,168</u>	<u>33,750,459</u>	<u>19,156,719</u>	<u>63,493,346</u>
City's Net OPEB Liability	<u>\$43,999,377</u>	<u>\$30,751,298</u>	<u>\$21,740,350</u>	<u>\$96,491,025</u>
 Plan Fiduciary Net Position as a Percent of the Total OPEB Liability	 19.39%	 52.32%	 46.84%	 39.69%

Source: Gabriel, Roeder, Smith and Company

Contribution levels are calculated annually by the Plan's actuary and include the expected pay-as-you-go cash outlays from each plan, and amortization of the Unfunded Actuarial Accrued Liability (UAAL). No contributions are required from current employees covered by the DB RHSA plans, but retirees may have a required premium based on date of retirement and the particular labor contract. The City calculates a blended rate (i.e. a single rate) to charge funds and departments for all employees without regard to whether employees are eligible for the DB or the DC benefits.

The June 30, 2017 valuations recommended \$12,056,136 in Actuarially Computed Employer Contributions ("ACEC"), which includes DB contributions as well as DC RHSA contributions for the fiscal year beginning July 1, 2018 (i.e., FY2019.) The ACEC was \$5,288,487 for General employees, \$3,841,765 for Police employees, \$2,863,499 for Fire employees, and \$62,385 for Library employees.

For the FY2019, the adopted budget incorporates the following blended rates for retiree healthcare benefits: General Employees 12.47%; Emergency Communication Operators 9.85% (a component of the General Employee agent plan); Police Employees 17.10%; Fire Employees 18.98% and, 3.8% for Library Employees.

For more information regarding the City's other postemployment benefits, please refer to the City's Comprehensive Annual Financial Report for the Year Ended June 30, 2018; Notes to the Financial Statements, Note 8 – Postemployment Benefits Other than Pensions.

Pension Plans

The City maintains two defined benefit retirement plans which cover many full-time City employees. The plans, known as the City of Grand Rapids General Retirement System ("GRS") and the City of Grand Rapids Police and Fire Retirement System ("PFRS"), are administered by local pension boards, members of which are appointed by the Mayor and/or elected by members of the respective System.

Note, the GRS has been closed to most general employees, i.e. non-police and fire, hired after 2011 and all general employees hired after June 30, 2014. General employees hired after 2011 (and 2014) are eligible for defined contribution pension benefits funded with 6% contributions from both the City and the employee.

The GRS and PFRS plans are advance funded on a level percent-of-payroll basis. These contributions are equal to normal cost (the current value of benefits accrued by active members during the year) and both interest and principal on the unfunded actuarial accrued liability (the difference between actuarial accrued liability and the system assets). The actuary for both of the retirement systems is Gabriel, Roeder, Smith and Company of Southfield, Michigan. Contributions are made by employees and the City based on covered wages. Covered wages for the GRS consist of base wages while for the PFRS covered wages include most pay premiums (i.e. gross wages).

Both the GRS and the PFRS conduct experience studies once every five years. The purpose of these studies is to review the actual and projected future experience of key variables and assumptions that are used in the annual valuation of system liabilities. In 2015, the Boards of Trustees of both the GRS and the PFRS approved changes to assumptions (lowering investment rate of return to 7.25% and updating the mortality tables) as recommended by the actuary.

Also, the GRS and PFRS Boards (the “Pension Boards”) have agreed to review the assumed rate of return annually to determine if any modifications need to be made. At a meeting held on March 21, 2018, the Pension Boards agreed to lower the effective interest rate from 7.25% to 7.15% for both pension plans. This change will be incorporated into the FY2019 budget for the PFRS and the FY2020 budget for the GRS Plan. These revised assumptions will be used by the actuary in future annual valuations of pension liabilities. The City will continue to fund the annual required contributions specified by the annual valuations.

For FY2019, the actuarial valuation results require that GRS member employees contribute 7.94% (weighted average) and that the City contribute 32.25% of covered wages. However, the annual required contribution amounts computed in the actuarial report will be reduced by blending pensionable wages with employees participating in the defined contribution pension plan. The blending is done so departments are charged a consistent rate regardless of the benefits for which their particular employees are eligible. The FY2019 adopted budget incorporates the blended rate of 22.23% for general employees. For FY2019, the actuarial valuation results currently require that PFRS member employees contribute 10.26% (weighted average) and that the City contribute 24.79% of covered wages.

**City of Grand Rapids
Police and Fire Retirement System Membership**

	FYE	FYE	FYE
	<u>12/31/2015</u>	<u>12/31/2016</u>	<u>12/31/2017</u>
Retirees and beneficiaries receiving pension benefits	672	673	677
Terminated plan members entitled to but not yet receiving benefits	33	32	32
Active plan members	<u>489</u>	<u>485</u>	<u>488</u>
TOTAL	<u>1,194</u>	<u>1,190</u>	<u>1,197</u>

**City of Grand Rapids
General Retirement System Membership**

	FYE	FYE	FYE
	<u>06/30/2016</u>	<u>06/30/2017</u>	<u>06/30/2018</u>
Retirees and beneficiaries receiving pension benefits	1,159	1,183	1,189
Terminated plan members entitled to but not yet receiving benefits	102	100	108
Active plan members	<u>586</u>	<u>533</u>	<u>479</u>
TOTAL	<u>1,847</u>	<u>1,816</u>	<u>1,776</u>

Source: Gabriel, Roeder, Smith and Company for both tables.

**City of Grand Rapids
Police and Fire Retirement System
Changes in the Net Pension Liability**

	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (a) – (b)
Balances at December 31, 2016	\$481,925,023	\$383,172,939	\$98,752,084
Changes for the Year:			
Service cost	8,723,494	-	8,723,494
Interest on the total pension liability	34,356,315	-	34,356,315
Changes in benefit terms	-	-	-
Difference between actual & expected experience	3,265,534	-	3,265,534
Changes in assumption	5,497,995	-	5,497,995
Contributions – employer	-	8,911,489	(8,911,489)
Contributions – employee	-	5,114,841	(5,114,841)
Net investment income	-	53,740,592	(53,740,592)
Benefit payments, including refund of employee contributions	(24,813,135)	(24,813,135)	-
Administrative expense	-	(580,690)	580,690
Other changes	1	(1)	2
Net changes	<u>27,030,204</u>	<u>42,373,096</u>	<u>(15,342,892)</u>
Balances at December 31, 2017	<u>\$508,955,227</u>	<u>\$425,546,035</u>	<u>\$83,409,192</u>

Source: Gabriel, Roeder, Smith and Company and the City of Grand Rapids

**City of Grand Rapids
General Retirement System
Changes in the Net Pension Liability**

	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (a) – (b)
Balances at June 30, 2016	\$510,324,266	\$390,189,761	\$120,134,505
Changes for the year:			
Service cost	5,161,510	-	5,161,510
Interest on the total pension liability	36,025,286	-	36,025,286
Changes in benefit terms	-	-	-
Difference between actual & expected experience	(971,718)	-	(971,718)
Changes in assumption	(1,495,183)	-	(1,495,183)
Contributions – employer	-	10,237,538	(10,237,538)
Contributions – employee	-	3,012,472	(3,012,472)
Net investment income	-	38,296,115	(38,296,115)
Benefit payments, including refund of employee contributions	(32,009,058)	(32,009,058)	-
Administrative expense	-	(558,024)	558,024
Other changes	-	-	-
Net changes	<u>6,710,837</u>	<u>18,979,043</u>	<u>(12,268,206)</u>
Balances at June 30, 2017	<u>\$517,035,103</u>	<u>\$409,168,804</u>	<u>\$107,866,299</u>

Source: Gabriel, Roeder, Smith and Company and the City of Grand Rapids

**City of Grand Rapids
Police and Fire Retirement System
Plan Years Ended December 31, 2013 Through 2017**

Valuation Date <u>December 31</u>	Actuarial Accrued <u>Liabilities</u>	Actuarial Value of <u>Plan Assets</u>	Assets as a Percent of Actuarial <u>Accrued Liabilities</u>
2013	\$385,860,392	\$354,769,666	91.9%
2014	403,969,869	381,482,221	94.4
2015	461,094,743	386,363,384	83.8
2016	479,362,227	399,808,165	83.4
2017	506,255,138	421,679,693	83.3 ¹

Source: Gabriel, Roeder, Smith and Company

¹ The Police and Fire Retirement System actuarial report was prepared as of December 31, 2017 by Gabriel, Roeder, Smith and Company. The Police and Fire Retirement System contribution requirements are mitigated in the short term by the 5-year smoothing process.

**City of Grand Rapids
General Retirement System
Plan Years Ended June 30, 2014 Through 2018**

Valuation Date <u>June 30</u>	Actuarial Accrued <u>Liabilities</u>	Actuarial Value of <u>Plan Assets</u>	Assets as a Percent of Actuarial <u>Accrued Liabilities</u>
2014	\$460,585,801	\$385,153,710	83.6%
2015	500,205,954	401,743,923	80.3
2016	510,324,266	404,096,873	79.2
2017	517,035,103	418,027,055	80.9
2018	526,954,073	426,989,004	81.0 ^{1,2}

Source: Gabriel, Roeder, Smith and Company

¹ The General Retirement System actuarial report was prepared as of June 30, 2018 by Gabriel, Roeder, Smith and Company. The General Retirement System contribution requirements are mitigated in the short term by the 5-year smoothing process.

² Incorporates the revised actuarial assumptions from the 5-year experience study.

For more information regarding the City's retirement plans, please refer to the City's Comprehensive Annual Financial Report for the Year Ended June 30, 2018; Notes to the Financial Statements, Note 7 – Retirement Plans.

Labor Contracts

As of June 30, 2018 approximately 94.2% of the City's 1,449 full and permanent part-time employees are currently represented by labor organizations. The following table describes the labor organizations that represent City employees, the number of members and the expiration dates of the present contracts.

<u>Labor Organizations</u>	<u>Current Membership</u> ¹	<u>Contract Expiration Date</u>
Grand Rapids Police Officers Association (Officers and Sergeants Unit)	292	June 30, 2019
Grand Rapids Police Officers Association – CST Unit	9	June 30, 2019
Grand Rapids Police Officers Association – ECO Unit	35	June 30, 2019
Grand Rapids Command Police Officers Association	21	June 30, 2019
International Association of Firefighters	187	June 30, 2019
Grand Rapids Employees Independent Union	487	June 30, 2019
Grand Rapids Employees Independent Union (61 st District Court Affiliate)	55	June 30, 2019
Grand Rapids Employees Independent Union (Library Supervisor Affiliate)	13	June 30, 2019
Grand Rapids Employees Independent Union (Library Non-Supervisor Affiliate)	63	June 30, 2098
Association of Public Administrators	181	June 30, 2019
Association of Public Administrators (61 st District Court Chapter)	17	June 30, 2019
Teamsters – Emergency Communication Supervisors	5	June 30, 2019
Non-represented employees	<u>84</u>	N/A
Total FTE City Employees	<u>1,449</u>	

¹Actual number of employees (full-time and FTE) on June 30, 2018.

Source: City of Grand Rapids.

ECONOMIC PROFILE

Major Area Employers

The following table reflects the diversity of the major employers in the greater Grand Rapids area by the products manufactured or services performed and the approximate number of employees.

City of Grand Rapids, Michigan Top 20 Major West Michigan Employers

<u>Company</u>	<u>Principal Product or Service</u>	<u>GR Area Employees</u>
Spectrum Health	Hospitals, clinics and medical / surgical care	25,000
Meijer, Inc.	Supermarket retail and distribution	10,340
Mercy Health Partners/St. Mary's	Hospital, clinics and medical / surgical care	6,200
Amway Corporation	Consumer goods manufacturing	4,000
Gentex Corporation	Glass product manufacturing for automotive industry	3,900
Perrigo Company	Pharmaceutical manufacturing	3,800
Herman Miller Inc	Office and medical furniture manufacturing	3,621
Steelcase Inc.	Office and medical furniture manufacturing	3,500
Grand Valley State University	Higher education	3,306
Lacks Enterprises, Inc.	Plastic manufacturing for automotive industry	2,800
Grand Rapids Public Schools	Elementary and secondary schools	2,800
Farmers Insurance Group	Direct property and casualty insurance carrier	2,700
SpartanNash	Supermarket retail and distribution	2,585
Gordon Food Service	Grocery & related products and merchandise wholesaler	2,544
Magna International	Glass product manufacturing for automotive industry	2,500
Metro Health Hospital	Hospital and medical / surgical care	2,400
Ventra	Motor vehicle plastic parts and metal stamping	2,384
Alcoa Howmet Corp	Aerospace instrument/aircraft engine parts manufacturing	2,350
Fifth Third Bank	Banking – personal and commercial	2,280
Priority Health	Direct health and medical insurance carriers	2,250

Source: The Right Place, Inc.

Employment

Reflected below are the not seasonally adjusted unemployment statistics for the City and the State for the calendar years 2014 through 2018.

City of Grand Rapids:	<u>2014⁽¹⁾</u>	<u>2015⁽¹⁾</u>	<u>2016⁽¹⁾</u>	<u>2017⁽¹⁾</u>	<u>2018⁽³⁾</u>
Employed	93,152	98,515	98,378	98,866	100,801
Unemployed	<u>6,438</u>	<u>3,975</u>	<u>4,611</u>	<u>4,873</u>	<u>3,600</u>
Labor Force	<u>99,590</u>	<u>102,490</u>	<u>102,989</u>	<u>103,739</u>	<u>104,401</u>
Unemployed as % of Labor Force ⁽²⁾	6.5%	3.9%	4.5%	4.7%	3.4%
 State of Michigan:	 <u>2014⁽¹⁾</u>	 <u>2015⁽¹⁾</u>	 <u>2016⁽¹⁾</u>	 <u>2017⁽¹⁾</u>	 <u>2018⁽³⁾</u>
Employed	4,402,000	4,543,000	4,599,000	4,657,000	4,716,000
Unemployed	<u>348,000</u>	<u>214,000</u>	<u>238,000</u>	<u>227,000</u>	<u>169,000</u>
Labor Force	<u>4,750,000</u>	<u>4,757,000</u>	<u>4,837,000</u>	<u>4,884,000</u>	<u>4,885,000</u>
Unemployed as % of Labor Force ⁽²⁾	7.3%	4.5%	4.9%	4.6%	3.5%

(1) Annual average.

(2) Totals and percentages may differ due to rounding by the Michigan Department of Labor and Economic Growth.

(3) Data as of September, 2018.

Source: Michigan Department of Technology, Management & Budget.

Retail Sales

The following table reflects the projected breakdown of retail sales according to major purchase categories for the City and County of Kent.

	<u>City of Grand Rapids</u>		<u>County of Kent</u>	
	<u>Retail Sales*</u>	<u>Number of Stores</u>	<u>Retail Sales*</u>	<u>Number of Stores</u>
Automotive	\$900,088	93	\$2,871,592	259
Furniture.....	141,029	45	448,945	127
Electrical Appliances	132,886	40	472,835	112
Lumber & Hardware	348,979	72	1,240,508	200
Food	263,457	88	872,181	247
Health Care	145,460	63	491,223	177
Gasoline	268,920	67	817,583	188
Clothing	137,994	89	518,481	248
General Merchandise	<u>546,520</u>	<u>29</u>	<u>1,948,060</u>	<u>81</u>
Totals	<u>\$2,885,334</u>	<u>772</u>	<u>\$9,681,408</u>	<u>2,156</u>

* Dollar amounts in thousands.

Source: 2006 Editor & Publishers Market Guide. Updated data for this table is no longer available.

Estimated 2003 Retail Sales

The following table reflects the projected breakdown of retail sales according to major purchase categories for the City of Grand Rapids, State of Michigan and United States for the year ended 2003. This is the most recent year for which this information is available in this format.

	<u>City of Grand Rapids</u>		<u>State of Michigan</u>		<u>United States</u>	
	<u>Retail Sales *</u>	<u>Percent of Total</u>	<u>Retail Sales *</u>	<u>Percent of Total</u>	<u>Retail Sales *</u>	<u>Percent of Total</u>
Automotive	\$623,350	26.97 %	\$22,012,826	16.74 %	\$889,259,170	23.87 %
Food	129,765	5.61	14,597,321	11.10	489,332,034	13.14
General Merchandise	385,493	16.68	21,583,094	16.41	483,234,307	12.97
Restaurant	205,866	8.91	11,676,649	8.88	257,906,000	6.92
Furniture-Appliances	201,812	8.73	8,285,129	6.30	197,787,828	5.31
Other	764,881	33.10	53,346,471	40.57	1,407,472,691	37.79
Total	<u>\$2,311,167</u>	<u>100.00 %</u>	<u>\$131,501,490</u>	<u>100.00 %</u>	<u>\$3,724,992,030</u>	<u>100.00 %</u>

* Dollar amount in thousands

Source: Survey of Buying Power, "Sales and Marketing Management Magazine," September, 2003.

2005 Estimated Effective Household Buying Income ("E.H.B.I.")

	<u>% of Households in E.H.B.I. Range</u>		
	<u>City of Grand Rapids</u>	<u>State of Michigan</u>	<u>United States</u>
Under \$19,999.....	26.1 %	20.6 %	21.5 %
20,000-34,999.....	27.0	22.7	22.5
35,000-49,999.....	20.2	19.1	19.3
50,000 and over.....	<u>26.7</u>	<u>37.6</u>	<u>36.7</u>
	<u>100.0 %</u>	<u>100.0 %</u>	<u>100.0 %</u>
Median Household Effective Buying Income	\$33,331	\$39,668	\$39,324
Average Household Effective Buying Income	39,905	50,491	51,284
Per Capita Effective Buying Income	14,808	19,444	19,289

Source: Survey of Buying Power, "Sales and Marketing Management Magazine," September 2005. This is the most recent year for which this information is available in this format.

Building Permits

The following are the number and value of building permits issued in the City during the past five fiscal years:

<u>Fiscal Year Ended June 30</u>	<u>Number of Permits Issued</u>	<u>Total Value</u>
2014	2,278	\$312,740,000
2015	2,550	245,640,000
2016	2,662	459,850,000
2017	2,896	411,590,000
2018	2,884	497,580,000

Source: City of Grand Rapids.

SANITARY SEWER SYSTEM

Wastewater Volumes

Five years of annual tributary flows to the Water Resource Recovery Facility (“WRRF”), formerly known as the Waste Water Treatment Plant (“WWTP”), are shown in the following table.

<u>Fiscal Year June 30</u>	<u>Total Sales⁽¹⁾ in Million Gallons ("MG")</u>	<u>Additional Inflow and Infiltration in MG to the WRRF⁽²⁾</u>	<u>Total WRRF Influent in MG</u>	<u>Treated Average Daily Influent in MG</u>	<u>Known Bypass in MG</u>	<u>Total Annual Billing in Million Dollars</u>
2014	7,906	7,157	15,062	41.4	0.000	\$46.0
2015	7,815	6,912	14,753	40.5	0.000	48.4
2016	8,043	6,776	14,819	40.6	0.000	49.7
2017	8,190	7,178	15,368	40.2	0.000	51.1
2018	8,208	6,497	14,705	40.3	0.000	53.0

- (1) Sales are based upon customer water consumption, excepting large wholesale customers whose sewage flow is metered.
- (2) Additional inflow and infiltration into the Sanitary Sewer System is a result of wet weather, leakage, unauthorized drainage and other types of wastewater infiltration.

Source: City of Grand Rapids

Wastewater Characteristics

The quality of the wastewater influent received at the WRRF and the quality of the effluent discharged into the Grand River is measured in four principal ways. The table below compares the quality of the wastewater treated by the WRRF with the amounts allowed under the National Pollutant Discharge Elimination System (“NPDES”) permit issued to the City. WRRF effluent consistently meets all applicable permitted discharge standards.

City of Grand Rapids, Michigan
Water Resource Recovery Facility Effluent - 30 Month History Through June 30, 2018

Month	Carbonaceous BOD*		Suspended Solids*		Total Phosphorous*		Ammonia*	
	Allowed	Actual	Allowed	Actual	Allowed	Actual	Allowed	Actual
June-18	16	4.1	29	5.1	1	0.6	9.5	0.3
May-18	16	3.9	29	5.5	1	0.8	18	0.8
April-18	23	5.0	29	4.8	1	0.6	18	1.4
March-18	23	3.5	29	4.7	1	0.3	18	2.2
February-18	23	5.1	29	9.1	1	0.8	18	2.2
January-18	23	3.6	29	4.6	1	0.7	18	1.4
December-17	23	3.7	29	4.7	1	0.4	18	1.1
November-17	23	4.0	29	5.1	1	0.5	18	0.6
October-17	23	3.2	29	4.4	1	0.7	18	0.9
September-17	16	3.1	29	3.2	1	0.6	8.5	1.0
August-17	16	2.6	29	3.9	1	0.6	8.5	0.2
July-17	16	2.1	29	2.8	1	0.5	8.5	0.3
June-17	16	3.3	29	4.9	1	0.4	8.5	0.3
May-17	16	3.5	29	4.8	1	0.4	18	0.5
April-17	23	2.8	29	4.1	1	0.4	18	0.9
March-17	23	3.4	29	4.1	1	0.4	18	1.2
February-17	23	3.2	29	3.9	1	0.3	18	1.7
January-17	23	3.4	29	4.1	1	0.5	18	1.3
December-16	23	3.0	29	3.8	1	0.7	18	0.8
November-16	23	2.8	29	4.0	1	0.4	18	0.8
October-16	23	3.4	29	4.2	1	0.4	18	0.8
September-16	16	2.6	29	2.9	1	0.3	8.5	0.7
August-16	16	2.0	29	2.4	1	0.5	8.5	0.7
July-16	16	2.7	29	3.2	1	0.4	8.5	0.6
June-16	16	3.3	29	3.8	1	0.4	8.5	1.2
May-16	16	2.7	29	3.6	1	0.5	18	1.1
April-16	23	2.9	29	3.9	1	0.6	18	1.2
March-16	23	2.8	29	3.6	1	0.6	18	2.1
February-16	23	3.9	29	4.1	1	0.4	18	1.9
January-16	23	3.8	29	4.8	1	0.4	18	1.8

* The concentrations in this table are presented in milligrams per liter averaged on a daily basis over one-month periods. The concentrations are determined from a flow proportion composite of samples taken at intervals over a one-day period. The composite daily concentrations are analyzed and the daily results over a one month period are added together and averaged.

Source: City of Grand Rapids Water Resource Recovery Facility

If effluent discharge levels exceed levels allowed under the permit issued to the City, the City reports that fact to the Michigan Department of Environmental Quality (the "MDEQ"). The MDEQ has not sought any fines, penalties or other sanctions against the City for discharges which exceed the limits or restrictions set forth above. The City files monthly operating reports and reports of any spills associated with its wastewater system to MDEQ as mandated in its NPDES wastewater discharge permit. All reports have been filed with MDEQ as required.

Organization, Management and Staffing

The City administers the Sanitary Sewer System ("SSS") through its Environmental Services Department ("ESD") which is aligned under the Public Works Services Group. This service group operates under the administrative direction of the Managing Director. The daily operations of the ESD are overseen by the Department Manager.

The ESD administers the SSS through five divisions - Operations, Maintenance, Environmental Assessment, Field Operations, and the Utilities Engineering. The Maintenance Division is responsible for all mechanical/electrical/facilities maintenance. Field Operations is responsible for pipeline assessment, cleaning, and repair in the collection system. The Operations Division maintains the remote pumping stations, meter stations, regulator stations and operates the WRRF. The Environmental Assessment Division provides laboratory services, industrial monitoring and surveillance, and special field investigations. Sewer Maintenance provides assessments and cleaning of the sanitary sewerage system. Utilities Engineering provides utility engineering support for process engineering and collection system repair services for the ESD. The Water Department's Business Office manages both Water and Sewer Department customer billing and account management.

The fiscal year 2018 budget for these divisions authorized a total of 94 employees. The City believes the ESD is adequately staffed to operate and maintain the collection and treatment system in accordance with its NPDES permit.

Regulatory Requirements

The SSS is subject to extensive regulation under the Federal Water Pollution Control Act, as amended by the Clean Water Act of 1977 and the Water Quality Act of 1987 as amended and other federal and state statutes. In Michigan, the regulatory requirements of the Clean Water Act are administered by the United States Environmental Protection Agency (the "EPA") through the MDEQ. Regulations of these agencies deal primarily with the quality of effluent discharged to the Grand River, disposal of biosolids and other requirements imposed on the SSS as a condition of its participation in federal financial assistance for construction of wastewater facilities.

Included in the Clean Water Act regulatory framework administered by EPA is the NPDES permit program. This program requires the operation of wastewater treatment facilities according to discharge limitations and reporting requirements set forth in permits issued for each facility.

The Grand River, which receives the treated effluent from the WRRF, has a water quality standard for partial body contact, recreational use, and the ability to support warm water fish and supply agricultural and industrial water needs. The City's current NPDES permit was issued on November 1, 2017.

Retail Billings and Collections

The following table sets forth the history of billings and collections for the SSS for the fiscal years ended June 30, 2014 through 2018.

CITY OF GRAND RAPIDS, MICHIGAN SANITARY SEWER SYSTEM RETAIL BILLINGS AND COLLECTIONS

<u>Fiscal Year Ended June 30</u>	<u>Total Billings</u>	<u>Paid 0-30 Days</u>	<u>Paid 31-90 Days</u>	<u>Paid Over 90 Days</u>	<u>Total Collected (1)</u>
2014	\$44,439,080	\$34,626,808	\$7,753,279	\$1,742,147	\$44,122,233
2015	45,742,261	35,608,886	7,820,370	1,658,718	45,087,973
2016	47,854,769	37,358,507	7,639,566	1,576,896	46,574,969
2017	48,468,774	38,403,087	7,559,063	1,600,886	47,563,036
2018	49,125,908	40,175,537	6,875,709	1,506,620	48,557,866

(1) Reflects penalty and interest charges and the receipt of delinquent payments from period prior to commencement of fiscal year.
Source: City of Grand Rapids

Ten Largest Retail Customers

The following table sets forth the ten largest retail customers of the SSS for the one-year period ended on June 30, 2018, and their respective volumes of usage and the amounts billed.

CITY OF GRAND RAPIDS, MICHIGAN SANITARY SEWER SYSTEM TEN LARGEST RETAIL CUSTOMERS BY BILLINGS FISCAL YEAR ENDED JUNE 30, 2018

<u>Customer</u>	<u>Volume of Usage (Sewer Gallons)</u>	<u>Dollar Amount Billed Per Year</u>	<u>Percent of Total Billings</u>
Veolia Energy	241,551,640	\$864,063	1.76%
Spectrum Health System	155,546,600	611,907	1.25
Lacks Trim Systems	192,882,272	536,560	1.09
Kent Quality Foods	112,998,116	406,578	0.83
Allied Finishing, Inc.	148,469,772	403,154	0.82
Calvin College	94,865,100	379,710	0.77
Founders Brewing Company	105,451,544	356,791	0.73
Roskam Baking Co.	129,902,168	347,689	0.71
WM Shared Hospital Laundry	118,023,180	324,482	0.66
Grand Rapids Public Schools	49,741,252	322,468	0.66

Source: City of Grand Rapids

Rate Setting Methodology

In 1976, the City undertook the task of establishing a methodology to be used to annually to determine appropriate rates and charges for customers using the SSS. Prior to that time, the City had periodically adjusted rates for City users based on short-term projections of cash flow requirements and indexed suburban customer rates at a factor of two times the City rates. The rates that resulted from such adjustments did not adequately reflect the long term needs of the SSS and did not adequately reflect the variations in usage rates and operating and capital costs of providing service to the various suburban customer communities.

To remedy this and to establish a procedure for implementing annual rate adjustments, the City, in consultation with the customer communities with which it had retail and wholesale water service agreements, adopted a method of

adjusting rates annually. The first such annual rate study took eighteen months to complete and resulted in new rates effective January 1, 1978. Agreements with each of the retail and wholesale governmental customer communities serviced by the System were amended in 2000, 2002, 2006, 2010 and 2018 to incorporate rate setting methodology adjustments. In 2000, the first amendment to the contracts established the integrated connection fees required to be paid at the time a User receives a permit to connect to the Water or Sanitary Sewer System and the method by which the fees are set and adjusted annually in the rate study. The second amendment executed in 2002 further amended the rate setting methodology for the allocation of integrated connection fee revenue as revenue requirement credit among customer communities updating the calculation of distribution based on billed flow and land area factors. In 2006, penalty fees were no longer applied as credits (offsets) to revenue requirements. Instead, penalty fees were used to fund the Individual Circuit Breaker (“ICB”) and City and Customer Community Circuit Breaker (“CCCCB”). The ICB is a program aimed at addressing retail users requiring assistance in payment of their water/sewer bills. The CCCCCB is a mechanism, if sufficient funding is available, to limit retail service area revenue requirement changes to a level in line with the overall systems’ initial proposed changes. In 2010, the agreements were amended further, changing the rate setting methodology to use a three-year average of billed flow and reducing the rate of return on non-integrated fixed assets to the Bond Buyer Index for 20-year Municipal Bonds plus 4.50% per annum (formerly plus 6.00%). In March 2018, the agreements were also amended to change the methodology for calculation of integrated connection fees. This calculation is now based on an annual assessment of service costs rather than formerly being adjusted annually by CPI. The City has conducted annual rate studies each year since 1978 and has adjusted rates accordingly.

The rate setting methodology is founded on the basic principle that rates will be set to meet revenue requirements as defined by historical costs adjusted by known cost increases and decreases. Also, a significant goal of the methodology was the proper allocation of costs and rates among the users in each of the customer communities served. In general, the costs of capital improvements which benefit specific customers of the SSS are allocated to those customers in the rate setting methodology, while the costs of capital improvements related to the operation of the entire SSS are allocated to all users.

The annual rate analysis background material is assembled during the period from August through November of each year. The base period financial information consists of the actual revenues and expenses of the fiscal year ended on the most recent June 30th. Revenue requirements of the SSS are comprised of operating and maintenance expense, depreciation expense, a “return” on the net book value of fixed assets constructed and acquired utilizing the retained earnings of the SSS, and certain debt service costs. Integrated connection fees are an offset to revenue requirements. The revenue requirement components are adjusted to reflect current unit cost data available during the pendency of the rate study. Rates are then calculated that will generate revenues equal to the net revenue requirement. New rates and charges are reported to the City Commission and customer communities on or about November 15th each year with implementation on the following January 1st. The most recent rates were adopted and approved by the City Commission on December 18, 2018 for users within the City and customer communities.

Under the agreements with the customer communities, the rates adopted by the City take effect each January 1, following the completion of each annual rate study. Customer communities cannot delay the imposition of the new rates, but are permitted to seek arbitration to resolve any disagreement over new rates. The arbitrator is required to strictly apply the rate setting methodology to resolve disagreements. Since the implementation of the City’s rate setting methodology in 1978, only one such disagreement has arisen which was resolved through arbitration.

The rates consist of a “commodity” charge and a monthly “readiness-to-serve” charge. The commodity charge is assessed upon consumption and comprises approximately 60% of the SSS’s revenues. The monthly readiness-to-serve charge is based upon meter size.

The following table “Sanitary Sewer System Rate Studies – Comparative Analysis of Rates 1978 to 2018”, demonstrates the rate study methodology’s various objectives in four major ways: (1) the methodology has recognized variations among the various communities; (2) the methodology has produced adequate revenues over the period; (3) the methodology has resulted in a wide variety of rate adjustment; and (4) the methodology operates in an open and transparent manner with information available to customer communities and users.

**City of Grand Rapids Sanitary Sewer System Rate Studies
Comparative Analysis of Rates 1978 to 2018
Readiness-to-Serve Charge
(Monthly) Service Charge**

Effective	Commodity Charge (\$/HCF) (3)	Readiness-to Serve-(Monthly)			Billing Volume (HCF) (4)	Revenue Requirement
		3/4" Meter	6" Meter & Greater			
City of Grand Rapids						
Retail-No Expiration Date						
January 1, 1978	\$ 0.25	\$ 1.73	\$ 89.93	9,631,541	\$ 3,760,140	
January 1, 2018	3.30	17.33	872.87	6,532,335	35,937,791	
City of Kentwood						
Retail-expiring December 31, 2043						
January 1, 1978	\$ 0.25	\$ 1.84	\$ 116.50	303,302	\$ 110,135	
January 1, 2018	2.54	7.59	249.51	1,366,099	4,060,080	
City of Walker						
Retail-expiring December 31, 2043						
January 1, 1978	\$ 0.36	\$ 4.09	\$ 249.79	339,729	\$ 228,829	
January 1, 2018	2.50	28.10	1,562.15	839,092	4,558,101	
Cascade Charter Township						
Retail-expiring December 31, 2043						
January 1, 1978	\$ 0.38	\$ 4.01	\$ 254.75	68,492	\$ 64,685	
January 1, 2018	2.60	31.77	1,797.03	457,395	2,367,594	
Grand Rapids Charter Township						
Retail-expiring December 31, 2043						
January 1, 1978	\$ 0.36	\$ 5.87	\$ 362.45	122,955	\$ 120,106	
January 1, 2018	2.30	27.08	1,496.87	385,788	2,409,906	
Tallmadge Township						
Retail-expiring December 31, 2043						
January 1, 1995	\$ 1.47	\$ 10.06	\$ 534.85	9,857	\$ 17,070	
January 1, 2018	9.93	31.74	1,795.11	24,600	396,874	
Wright Township						
Retail-expiring December 31, 2043						
January 1, 2004	\$ 47.37**	\$ --	\$ --	23,618	\$ 192,899	
January 1, 2018	52.09**	--	--	23,830	272,389	
City of East Grand Rapids						
Wholesale-expiring December 31, 2043						
January 1, 1978	\$172.62*	\$ --	\$2,018.00 ⁽²⁾	1,235,707	\$ 183,765	
January 1, 2018	1,834.00*	--	2,198.00 ⁽²⁾	476,374	679,826	
Ada Township						
Wholesale-expiring December 31, 2043						
January 1, 1978	\$171.22*	\$ --	\$1,399.00 ⁽²⁾	151,961	\$ 36,253	
January 1, 2018	2,288.00*	--	45,942.00 ⁽²⁾	423,497	1,276,036	
Gaines Township⁽¹⁾						
Wholesale-expiring June 6, 2028						
January 1, 1993	\$672.00*	\$ --	\$ 122.00 ⁽²⁾	15,858	\$ 9,431	
January 1, 2018	1,549.00*	--	1,488.00 ⁽²⁾	178,979	225,212	
Caledonia Charter Township						
Wholesale-expiring December 31, 2043						
March 12, 2014	\$15,478.00*	\$ --	\$ 285.00 ⁽²⁾	4,881	\$ 59,920	
January 1, 2018	4,587.00*	--	719.00 ⁽²⁾	42,291	135,572	
Total all Entities						
January 1, 1978 and other initial years				11,907,901	\$ 4,783,233	
January 1, 2018				10,750,280	52,350,127	

Source: City of Grand Rapids

* Rate charged per one million gallons. **Rate charged per REU.

(1) Operating under the 1978 Agreement.

(2) Wholesale readiness to serve charge based on rate study.

(3) HCF: Hundred Cubic Feet

(4) Billing volume used in the Rate Study is the average of the last 3 years for communities that are partners to the uniform service agreements; except in Gaines Township where billing volume in the Rate Study is the prior fiscal year billed volume.

Revenue Requirements and Percentage Rate Adjustments - Historical

The rate setting methodology when applied in the annual rate studies for the years 2012 through 2017 has yielded the revenue requirements and percentage rate increases/(decreases) set forth in the table below for the calendar years commencing January 1, 2014 through January 1, 2018.

CITY OF GRAND RAPIDS, MICHIGAN SANITARY SEWER SYSTEM REVENUE REQUIREMENTS AND PERCENTAGE RATE INCREASES - HISTORICAL

Rate Study Year Effective Date	2013 1/1/14	2014 1/1/15	2015 1/1/16	2016 1/1/17	2017 1/1/18
Operation & Maintenance	\$24,726,721	\$24,952,347	\$26,057,855	\$27,801,771	\$27,440,606
Depreciation	6,089,569	6,666,173	6,444,256	5,731,874	7,348,797
Return on Investment	11,379,865	12,451,600	12,295,457	11,994,805	12,217,951
Less: Revenue Credits	(149,492)	(583,855)	(687,034)	(459,879)	(127,437)
CSO Project Debt Service	9,420,985	9,186,830	8,637,610	9,007,175	8,007,588
Less: Integrated Connection Fee Credit	(2,387,738)	(2,589,846)	(2,657,604)	(3,169,115)	(2,537,379)
Less: Circuit Breaker Program	(133,698)	(121,206)	(330,718)	(614,492)	(138,000)
Plus: Capital Investment Reimbursement	-	-	108,205	108,205	107,854
Total Revenue Requirements	<u>\$48,946,212</u>	<u>\$49,962,043</u>	<u>\$49,868,027</u>	<u>\$50,400,344</u>	<u>\$52,319,980</u>
Gross Rate Increases (Decreases) Necessary to Meet Total Revenue Requirement ⁽¹⁾	(2.46%)	2.46%	2.81%	0.30%	3.08%

(1) The percentage rate changes differ from the annual percentage changes in total Revenue Requirements due to differences in usage volumes.

Source: City of Grand Rapids

Connection Fees

On June 27, 2000, the Grand Rapids City Commission enacted Ordinance No. 2000-32 establishing a schedule of integrated connection base fee increases for initial connection to the SSS for periods through December 31, 2008. The fees have been adjusted annually thereafter, most recently on December 18, 2018 when the Grand Rapids City Commission approved a resolution establishing the fees effective January 1, 2019. These integrated connection fees apply to all users of the SSS except users in Gaines Township. The receipts from these fees are shown in the table "SANITARY SEWER SYSTEM – Results of Operations."

CITY OF GRAND RAPIDS, MICHIGAN SANITARY SEWER SYSTEM INTEGRATED CONNECTION BASE FEE SCHEDULE - HISTORICAL

<u>Water Meter Size</u>	<u>Effective On and After</u>				
	<u>01/01/14</u>	<u>01/01/15</u>	<u>01/01/16</u>	<u>01/01/17</u>	<u>01/01/18*</u>
¾" or less	\$2,873	\$2,922	\$2,928	\$2,959	\$3,016
1"	4,798	4,880	4,890	4,942	5,037
1-1/2"	9,567	9,730	9,750	9,853	10,043
2"	15,313	15,574	15,606	15,771	16,075
3"	33,528	34,100	34,170	34,532	35,197
4"	60,333	61,362	61,488	62,139	63,336
6" & over	134,083	136,370	136,650	138,097	140,757

Source: City of Grand Rapids

* This rate was effective from January 1, 2018 through March 31, 2018. The customer service agreements were amended in March, 2018 to change the methodology for calculation of integrated connection fees. For the new integrated connection fees effective as of April 1, 2018, see table below.

**CITY OF GRAND RAPIDS, MICHIGAN
 SANITARY SEWER SYSTEM
 INTEGRATED CONNECTION FEE EFFECTIVE APRIL 4, 2018**

	<u>Base Fee</u>	<u>Meter Capacity Fee</u>	<u>Total</u>
Residential Users Only (3 residential units or fewer)	\$350	\$175	\$525
Water Meter Size			
3/4" or less	670	175	845
1"	850	250	1,100
1-1/2"	1,120	800	1,920
2"	1,570	900	2,470
3"	1,910	1,100	3,010
4"	2,650	At cost	2,650+cost
6" & over	3,850	At cost	3,850+cost

Statement of Operations - Historical

The rate increases/(decreases) under the rate setting methodology have produced the results of operations from the SSS for the fiscal years ended June 30, 2014 through 2018 as set forth in the table below.

CITY OF GRAND RAPIDS, MICHIGAN SANITARY SEWER SYSTEM STATEMENTS OF OPERATIONS - HISTORICAL

	Fiscal Years Ended June 30,				
	2014	2015	2016	2017	2018
REVENUES					
Service Charges- Retail	\$44,237,652	\$46,438,473	\$47,638,738	\$48,870,101	\$49,152,626
Service Charges-Wholesale	1,781,578	1,930,465	2,054,466	2,216,685	2,318,152
Sewage Surcharge	1,751,793	1,728,329	2,122,789	1,831,469	2,056,797
Connection Fees/Front Foot Fees	944,624	1,049,540	1,238,936	936,812	926,109
Industrial Pretreatment Permit Fee	55,853	50,687	51,197	50,750	47,521
Interest on Investments	229,542	314,716	398,387	245,759	880,212
Miscellaneous ⁽¹⁾	948,543	795,151	964,692	739,113	997,410
Total Gross Revenues	<u>49,949,585</u>	<u>52,307,361</u>	<u>54,469,205</u>	<u>54,890,689</u>	<u>56,378,828</u>
OPERATING EXPENSES					
Wastewater Treatment	14,820,463	15,212,786	15,879,533	16,496,175	18,384,772
Sanitary Sewer Repair & Maintenance	4,980,319	5,259,767	4,857,588	4,623,913	5,471,046
Customer Services	2,080,644	1,899,516	2,633,192	2,119,181	2,379,792
Administration	1,756,670	1,733,172	4,262,046	2,192,252	2,075,658
Industrial Pretreatment	589,063	696,325	618,945	709,067	565,926
Depreciation	13,644,126	14,060,726	14,440,267	14,734,268	14,735,236
Total Gross Expenses	<u>37,871,285</u>	<u>38,862,292</u>	<u>42,691,571</u>	<u>40,874,856</u>	<u>43,612,429</u>
Additions - Depreciation	13,644,126	14,060,726	14,440,267	14,734,268	14,735,236
NET EARNINGS ⁽²⁾	<u>\$25,722,426</u>	<u>\$27,505,795</u>	<u>\$26,217,901</u>	<u>\$28,750,101</u>	<u>\$27,501,634</u>

⁽¹⁾ Includes jobbing materials, service fees, rebates, penalties, and reimbursements.

⁽²⁾ Pursuant to bond ordinance definition of net earnings.

Source: City of Grand Rapids

Net Earnings and Bond Coverage - Historical

The SSS bond ordinances require that net revenue generated by the SSS must be sufficient to meet the cash requirements of the SSS which include: (a) administrative, operation and maintenance expenses; (b) debt service requirements on bonded debt; and (c) expenditures for capital improvements not financed from bond proceeds or contributions. In addition, the City covenants and agrees that it will, at all times, on a pro-forma basis, prescribe and maintain and thereafter collect rates and charges for the services and facilities furnished by the SSS which, together with other income, are reasonably expected to yield annual net earnings in the current fiscal year equal to at least one hundred twenty percent (120%) of annual principal and interest requirements in such fiscal year.

Net earnings of the SSS are calculated in the section entitled "Results of Operations." The table below sets forth the debt service and the coverage ratio based on the net earnings of the SSS for the fiscal years ended June 30, 2014 through 2018. The Coverage Ratio has been determined by dividing the Net Earnings for each fiscal year by the total annual principal and interest payments for each fiscal year.

CITY OF GRAND RAPIDS, MICHIGAN SANITARY SEWER SYSTEM NET EARNINGS AND BOND COVERAGE - HISTORICAL

	Fiscal Years Ended June 30,				
	2014	2015	2016	2017	2018
Net Earnings of the SSS	\$25,722,426	\$27,505,795	\$26,217,901	\$28,750,101	\$27,501,634
Total Net Senior Debt Service ⁽¹⁾	18,936,778	18,196,530	19,183,039	18,470,521	18,885,470
Coverage-Senior Debt	1.40	1.51	1.37	1.56	1.46
Debt Service on Junior Lien Bonds ⁽²⁾	3,973,612	2,345,969	1,111,688	784,744	573,073
Coverage Ratio - All Debt	1.15	1.34	1.29	1.49	1.41
Total Available After Debt Service	\$3,312,036	\$6,963,296	\$5,923,174	\$9,494,836	\$8,043,091

⁽¹⁾ Net of the Build America Bonds 35% interest expense subsidy in the amount of \$2,931,954.56 pertaining to the SSS Series 2010A bonds.

⁽²⁾ Based on maximum principal draws without principal forgiveness incentives.

Source: City of Grand Rapids

Revenue Requirements and Percentage Rate Adjustments – Projected

The rate setting methodology when applied to future operations and maintenance costs, depreciation and return on investment requirements results in the following projected revenue requirements and anticipated rate adjustments for the calendar years commencing January 1, 2019 through January 1, 2022.

City of Grand Rapids, Michigan Sanitary Sewer System Projected Revenue Requirements and Anticipated Percentage Rate Adjustments ⁽¹⁾

Rate Study Year Date Effective	2018 1/1/19	2019 1/1/20	2020 1/1/21	2021 1/1/22	2022 1/1/23
Operation & Maintenance ⁽²⁾	\$29,320,024	\$28,472,675	\$27,105,987	\$27,200,858	\$27,780,236
Depreciation Expense ⁽³⁾	7,289,152	7,671,066	8,062,848	8,554,268	8,485,200
Return on System Investment ⁽⁴⁾	13,388,665	13,522,552	17,007,902	17,177,981	17,349,761
Less: Revenue Credits ⁽⁵⁾	(587,610)	(106,053)	(107,287)	(108,541)	(109,814)
CSO Project Debt Service ⁽⁴⁾	8,001,052	7,975,743	8,191,840	7,171,996	7,176,829
Less: Integrated System Credits ⁽⁵⁾	(2,600,008)	(2,550,600)	(4,732,573)	(6,915,025)	(6,947,963)
Less: Circuit Breaker ⁽⁵⁾	(307,829)	(321,865)	(324,397)	(326,946)	(329,514)
Plus: Capital Investment Reimbursement	107,854	-	-	-	-
Total Revenue Requirements	<u>\$54,611,300</u>	<u>\$54,663,517</u>	<u>\$55,204,321</u>	<u>\$52,754,591</u>	<u>\$53,404,735</u>
Percentage Gross Rate Increase (Decrease) From Prior Year Necessary to Meet Total Revenue Requirements ⁽⁶⁾	3.28%	0.10%	0.99%	(4.44%)	1.23%

- (1) Revenue requirements per the 2018 Rate Study.
- (2) Projections for 2019 Rate Study and thereafter are increased proportionate to the City's FY2019-2023 Fiscal Plan.
- (3) Projections for 2019 Rate Study and thereafter are based on the City's fixed asset system projections based on assets in service on June 30, 2018.
- (4) Projections for 2019 Rate Study and thereafter are based on the 2018 Rate Study.
- (5) Projections for 2019 Rate Study and thereafter are based on the City's FY2019-2023 Fiscal Plan.
- (6) These percentages represent the required changes in gross revenues of the SSS if the three-year average billed volume remains the same as in the 2018 Rate Study, but, because of changes in billed volume and other factors, such as capital improvement projects servicing specific customer communities, the actual percentage change in rates for the individual customer communities will vary from these figures.

Source: City of Grand Rapids

Statement of Operations - Projected

The City projects that the rates in effect for the year commencing January 1, 2018 and the projected rate increases for future years as shown above will yield the projected results of operations for the SSS for the fiscal years ending June 30, 2019 through June 30, 2023 as set forth in the table below.

City of Grand Rapids, Michigan Sewage Disposal System Fund Statements of Operations - Projected ⁽¹⁾

	Fiscal Years Ending June 30,				
	2019	2020	2021	2022	2023
REVENUES:					
Retail Service Charges	\$49,346,420	\$50,333,349	\$51,340,015	\$52,366,816	\$53,414,152
Wholesale Service Charges	2,614,985	2,667,285	2,720,631	2,775,043	2,830,544
Sewer Surcharges	2,131,500	2,163,473	2,195,925	2,228,863	2,262,296
Connection / Front Foot Fees	546,600	549,150	551,751	554,404	557,110
Industrial Pretreatment Permit Fees	50,750	51,511	52,284	53,068	53,864
Interest on Investments	621,634	770,124	872,036	975,316	1,078,595
Miscellaneous	<u>606,222</u>	<u>3,187,144</u>	<u>5,968,227</u>	<u>5,974,372</u>	<u>5,980,576</u>
Total Revenues	<u>\$55,918,111</u>	<u>\$59,722,036</u>	<u>\$63,700,869</u>	<u>\$64,927,882</u>	<u>\$66,177,137</u>
OPERATING EXPENSES:					
Water Resource Recovery Facility	\$18,161,407	\$16,504,614	\$16,106,191	\$16,243,027	\$16,291,591
Sanitary Sewer Repair & Maintenance	5,376,132	5,794,848	6,089,560	6,322,427	6,503,291
Customer Services	2,510,424	2,388,582	2,537,458	2,726,342	2,773,425
Administration	1,251,136	1,258,676	1,303,441	1,300,246	1,308,473
Industrial Pretreatment	743,916	750,739	753,217	768,520	776,366
Depreciation ⁽²⁾	<u>15,507,286</u>	<u>16,299,286</u>	<u>17,292,706</u>	<u>17,153,083</u>	<u>16,958,904</u>
Total Expenses	<u>\$43,550,301</u>	<u>\$42,996,745</u>	<u>\$44,082,573</u>	<u>\$44,513,645</u>	<u>\$44,612,049</u>
Additions: Depreciation	<u>15,507,286</u>	<u>16,299,286</u>	<u>17,292,706</u>	<u>17,153,083</u>	<u>16,958,904</u>
NET EARNINGS ⁽³⁾	<u>\$27,875,096</u>	<u>\$33,024,577</u>	<u>\$36,911,002</u>	<u>\$37,567,320</u>	<u>\$38,523,991</u>

(1) Projections are taken from the City's FY2019-2023 Fiscal Plan, except as noted in (2) below.

(2) Projections are taken from the City's fixed asset system, based on assets in service on June 30, 2018.

(3) Pursuant to the bond ordinance definition of Net Earnings.

WATER SUPPLY SYSTEM

Annual Water Sales

**CITY OF GRAND RAPIDS, MICHIGAN
WATER SUPPLY SYSTEM
TOTAL ANNUAL WATER SALES IN GALLONS, PUMPAGE, AND DOLLARS BILLED**

Fiscal Year Ended June 30	Total Sales in Billion Gallons	Total Pumpage in Billion Gallons	Total Annual Billings in Millions of Dollars
2014	11.297	12.997	\$37.366
2015	10.975	12.362	36.652
2016	11.285	12.684	38.468
2017	11.806	12.649	40.315
2018	12.074	13.525	42.432

Source: City of Grand Rapids

Daily Water Pumpage

**CITY OF GRAND RAPIDS, MICHIGAN
WATER SUPPLY SYSTEM
DAILY WATER PUMPAGE IN MILLIONS OF GALLONS**

	Fiscal Years Ended June 30				
	2014	2015	2016	2017	2018
Average Day Pumpage	35.6	33.8	34.6	34.6	37.015
Maximum Day Pumpage	63.7	63.0	62.7	70.4	66.384

Source: City of Grand Rapids

Retail Billings and Collections

The following table sets forth the history of billings and collections for the Water Supply System (“WSS”) for the fiscal years ended June 30, 2014 through June 30, 2018.

**CITY OF GRAND RAPIDS, MICHIGAN
WATER SUPPLY SYSTEM
RETAIL BILLINGS AND COLLECTIONS**

Fiscal Year Ended June 30	Total Billed	Paid 0-30 Days	Paid 31-90 Days	Paid Over 90 Days	Total Collected ⁽¹⁾
2014	\$34,165,870	\$27,754,510	\$6,176,600	\$1,732,148	\$35,663,258
2015	33,244,643	26,565,122	5,855,898	1,599,928	34,020,948
2016	34,740,002	28,206,150	5,605,702	1,463,549	35,275,401
2017	36,615,962	30,023,129	5,755,141	1,478,911	37,257,181
2018	38,282,327	32,402,144	5,550,086	1,401,943	39,354,173

⁽¹⁾ Reflects penalties & interest charges and receipt of delinquent payments from the period prior to the commencement of the fiscal year.

Source: City of Grand Rapids

Ten Largest Retail Customers

The following table sets forth the ten largest retail customers of the WSS for the one year period ended on June 30, 2018 and their respective volumes of usage and the amounts billed.

**CITY OF GRAND RAPIDS, MICHIGAN
WATER SUPPLY SYSTEM
TEN LARGEST RETAIL CUSTOMERS BY BILLINGS
FISCAL YEAR ENDED JUNE 30, 2018**

<u>Customer</u>	<u>Volume of Usage (Water Gallons)</u>	<u>Dollar Amounts Billed Per Year</u>	<u>Percent of Total Billings</u>
Veolia Energy	120,775,820	\$320,780	0.84%
Spectrum Health System	78,096,436	225,701	0.59%
Lacks Trim Systems	97,631,204	217,828	0.57%
Coca Cola Enterprises	78,607,320	208,172	0.54%
Roskam Baking Co	77,487,564	171,771	0.45%
Founders Brewing Company	63,331,664	166,905	0.44%
Allied Finishing, Inc.	74,307,816	157,861	0.41%
Kent Quality Foods	56,025,200	148,492	0.39%
West Mich Shared Hospital Laundry	62,710,076	141,170	0.37%
Calvin College	47,482,292	139,409	0.36%

Source: City of Grand Rapids

Organization, Management and Staffing

The City administers the WSS through its Water Department, which is aligned under the Public Works Services Group. This service group operates under the administrative direction of the Managing Director. The daily operations of the WSS are overseen by the Department Manager.

The Water Department consists of four divisions; Engineering, Field Operations, Business Office, and Filtration and Treatment. Engineering provides utility engineering technical support for planning and management of water system assets. The Field Operations Division is responsible for maintenance and repair of WSS assets. The Water Department's Business Office manages both WSS and Sanitary Sewer Department customer billing and account management. The Filtration and Treatment provides laboratory services, operation of the water filtration plant, and control of system pumping and distribution.

The fiscal year 2018 budget for these divisions authorized a total of 125 employees. The City believes the WSS is adequately staffed in accordance with regulatory compliance.

Regulatory Requirements

The MDEQ has primary enforcement authority in Michigan for the Federal Safe Drinking Water Act under the legislative authority of the Michigan Safe Drinking Water Act. As such, the MDEQ has regulatory oversight for the monitoring of water quality and enforcement of standards and policy.

Rate Setting Methodology

In 1976, the City undertook the task of establishing a methodology to be used annually to determine appropriate rates and charges for customers using the WSS. Prior to that time, the City had periodically adjusted rates for City users based on short-term projections of cash flow requirements and indexed suburban customer rates at a factor of two times the City rates. The rates that resulted from such adjustments did not adequately reflect the long term needs of the WSS and did not adequately reflect the variations in usage rates and operating and capital costs of providing service to the various suburban customer communities.

To remedy this and to establish a procedure for implementing annual rate adjustments, the City, in consultation with the customer communities with which it had retail and wholesale water service agreements, adopted

a method of adjusting rates annually. The first such annual rate study took eighteen months to complete and resulted in new rates effective January 1, 1978. Agreements with each of the retail and wholesale governmental customer communities serviced by the System were amended in 2000, 2002, 2006, 2010 and 2018 to incorporate rate setting methodology adjustments. In 2000, the first amendment to the contracts established the integrated connection fees required to be paid at the time a User receives a permit to connect to the Water or Sanitary Sewer System and the method by which the fees are set and adjusted annually in the rate study. The second amendment executed in 2002 further amended the rate setting methodology for the allocation of integrated connection fee revenue as revenue requirement credit among customer communities updating the calculation of distribution based on billed flow and land area factors. In 2006, penalty fees were no longer applied as credits (offsets) to revenue requirements. Instead, penalty fees were used to fund the Individual Circuit Breaker (“ICB”) and City and Customer Community Circuit Breaker (“CCCCB”). The ICB is a program aimed at addressing retail users requiring assistance in payment of their water/sewer bills. The CCCCCB is a mechanism, if sufficient funding is available, to limit retail service area revenue requirement changes to a level in line with the overall systems’ initial proposed changes. In 2010, the agreements were amended further, changing the rate setting methodology to use a three-year average of billed flow and reducing the rate of return on non-integrated fixed assets to the Bond Buyer Index for 20-year Municipal Bonds plus 4.50% per annum (formerly plus 6.00%). In March 2018, the agreements we also amended to change the methodology for calculation of integrated connection fees. This calculation is now based on an annual assessment of service costs rather than formerly being adjusted annually by CPI. The City has conducted annual rate studies each year since 1978 and has adjusted rates accordingly.

The rate setting methodology is founded on the basic principle that rates will be set to meet revenue requirements as defined by historical costs adjusted by known cost increases and decreases. Also, a significant goal of the methodology was the proper allocation of costs and rates among the users in each of the customer communities served. In general, the costs of capital improvements which benefit specific customers of the WSS are allocated to those customers in the rate setting methodology, while the costs of capital improvements related to the operation of the entire WSS are allocated to all users.

The annual rate analysis background material is assembled during the period from August through November of each year. The base period financial information consists of the actual revenues and expenses of the fiscal year ended on the most recent June 30th. Revenue requirements of the WSS are comprised of operating and maintenance expense, depreciation expense, a “return” on the net book value of fixed assets constructed and acquired utilizing the retained earnings of the WSS, and certain debt service costs. Integrated connection fees are an offset to revenue requirements. The revenue requirement components are adjusted to reflect current unit cost data available during the pendency of the rate study. Rates are then calculated that will generate revenues equal to the net revenue requirement. New rates and charges are reported to the City Commission and customer communities on or about November 15th each year with implementation on the following January 1st. The most recent rates were adopted and approved by the City Commission on December 18, 2018 for users within the City and customer communities.

Under the agreements with the customer communities, the rates adopted by the City take effect each January 1, following the completion of each annual rate study. Customer communities cannot delay the imposition of the new rates, but are permitted to seek arbitration to resolve any disagreement over new rates. The arbitrator is required to strictly apply the rate setting methodology to resolve disagreements. Since the implementation of the City’s rate setting methodology in 1978, only one such disagreement has arisen which was resolved through arbitration.

The rates consist of a “commodity” charge and a monthly “readiness-to-serve” charge. The commodity charge is assessed upon consumption and comprises approximately 64% of the WSS revenues. The monthly readiness-to-serve charge is based upon meter size.

The following table “Water Supply System Rate Studies – Comparative Analysis of Rates 1978 to 2017”, demonstrates the rate study methodology’s various objectives in four major ways: (1) the methodology has recognized variations among the various communities; (2) the methodology has produced adequate revenues over

the period; (3) the methodology has resulted in a wide variety of rate adjustment; and (4) the methodology operates in an open and transparent manner with information available to customer communities and users.

**CITY OF GRAND RAPIDS, MICHIGAN
WATER SUPPLY SYSTEM RATE STUDIES
COMPARATIVE ANALYSIS OF RATES 1978 TO 2018⁽¹⁾**

<u>Customer & Effective Dates</u>	<u>Commodity Charge (\$/HCF)⁽³⁾</u>	<u>Readiness-to-Serve (Monthly)</u>		<u>Billing Volume (HCF)⁽⁴⁾</u>	<u>Revenue Requirements</u>
		<u>3/4" Meter</u>	<u>6" & Over</u>		
City of Grand Rapids					
Retail-No Expiration Date					
January 1, 1978	\$ 0.24	\$ 2.48	\$ 94.46	11,628,762	\$ 5,226,903
January 1, 2018	2.00	10.16	407.06	8,194,935	25,550,691
City of Kentwood					
Retail-expiring December 31, 2043					
January 1, 1978	\$ 0.48	\$ 3.63	\$ 206.49	307,080	\$ 243,459
January 1, 2018	1.52	14.56	688.66	1,704,147	4,139,713
City of Walker					
Retail-expiring December 31, 2043					
January 1, 1978	\$ 0.48	\$ 2.79	\$ 133.20	414,437	\$ 294,613
January 1, 2018	1.64	12.73	571.54	1,157,835	3,344,561
Grand Rapids Charter Township					
Retail-expiring December 31, 2043					
January 1, 1978	\$ 0.48	\$ 2.99	\$ 144.11	95,466	\$ 82,603
January 1, 2018	1.85	16.02	782.10	643,641	2,235,972
City of East Grand Rapids					
Wholesale-expiring December 31, 2043					
January 1, 1978	\$ 0.24	\$----	\$1,163.00	650,641	\$ 170,752
January 1, 2018	1.07	----	14,728.00	576,120	793,186
Ada Township ⁽²⁾					
Wholesale-expiring December 31, 2043					
January 1, 1982	\$ 0.37	\$----	\$1,111.00	22,878	\$ 21,792
January 1, 2018	1.22	----	41,158.00	623,477	1,254,535
Tallmadge Charter Township ⁽²⁾					
Retail-expiring December 31, 2043					
January 1, 1995	\$ 2.58	\$ 10.93	\$ 535.75	9,759	\$ 27,891
January 1, 2018	3.33	6.19	152.98	34,238	177,041
Cascade Charter Township					
Retail-expiring December 31, 2043					
January 1, 1978	\$ 0.48	\$ 3.38	\$ 179.15	135,393	\$ 149,357
January 1, 2018	2.33	22.30	1,182.02	864,315	3,502,787
Ottawa County ⁽²⁾					
Wholesale-expiring November 1, 2029					
January 1, 1979	\$ 0.27	\$----	\$ 60.00	100,365	\$ 27,315
January 1, 2018	1.17	----	414.00	1,560,275	1,830,486
Total all Entities					
January 1, 1978 plus other initial years				13,364,781	\$ 6,244,685
January 1, 2018				15,358,983	42,828,972

(1) Rates effective January 1, 2017.

(2) Ottawa County, Ada Township in Kent County, and Tallmadge Charter Township in Ottawa County were added to the WSS after January 1, 1978.

(3) HCF: Hundred Cubic Feet.

(4) Billing volume used in the Rate Study is the average of the last three years for customer communities that are partners to the uniform service agreements.

Source: City of Grand Rapids

Revenue Requirements and Percentage Rate Adjustments – Historical

The rate setting methodology when applied in the annual rate studies for the years 2013 through 2017 has yielded the revenue requirements and percentage increases/(decreases) set forth in the table below for the calendar years commencing January 1, 2014 through January 1, 2018.

CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM REVENUE REQUIREMENTS AND PERCENTAGE RATE ADJUSTMENTS - HISTORICAL

Rate Study Year Date Effective	2013 1/1/14	2014 1/1/15	2015 1/1/16	2016 1/1/17	2017 1/1/18
Operation & Maintenance	\$22,106,315	\$22,398,988	\$23,939,647	\$25,249,451	\$25,130,522
Depreciation	6,574,063	7,094,701	6,366,310	6,464,577	7,377,523
Return on Investment	12,057,673	12,692,064	12,255,736	11,643,593	12,345,466
Less: Revenue Credits	(1,120,101)	(1,061,826)	(980,715)	(708,238)	(844,068)
Less: Integrated Connection Fee Credit	(803,059)	(864,349)	(941,160)	(1,081,378)	(789,922)
Less: Circuit Breaker Program	(168,143)	(203,593)	(461,376)	(380,488)	(390,549)
Total Revenue Requirements	<u>\$38,646,748</u>	<u>\$40,055,985</u>	<u>\$40,178,442</u>	<u>\$41,187,517</u>	<u>\$42,828,972</u>
Gross Rate Increases/(Decreases) Necessary to Meet Total Revenue Requirements ⁽¹⁾	(4.41%)	(4.30%)	2.50%	1.00%	2.45%

⁽¹⁾ The percentage rate changes differ from the annual percentage changes in Total Revenue Requirements due to differences in usage volumes.

Source: City of Grand Rapids

Connection Fees

On June 27, 2000, the Grand Rapids City Commission enacted Ordinance No. 2000-32 establishing a schedule of integrated connection base fee increases for initial connection to the WSS for periods through December 31, 2008. The fees have been adjusted annually thereafter, most recently on December 18, 2018 when the Grand Rapids City Commission approved a resolution establishing the fees effective January 1, 2019. These integrated connection fees apply to all users of the WSS except users in Ottawa County. The receipts from these fees are shown in the table “Water Supply System – Statement of Operations”.

CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM INTEGRATED CONNECTION BASE FEE SCHEDULE

Water Meter Size	Effective On and After				
	01/01/14	01/01/15	01/01/16	01/01/17	01/01/18 ⁽¹⁾
¾" or less	\$2,873	\$2,922	\$2,928	\$2,959	\$3,016
1"	4,798	4,880	4,890	4,942	5,037
1-1/2"	9,567	9,730	9,750	9,853	10,043
2"	15,313	15,574	15,606	15,771	16,075
3"	33,528	34,170	34,170	34,532	35,197
4"	60,333	61,488	61,488	62,139	63,336
6" & over	134,083	136,650	136,650	138,097	140,757

⁽¹⁾ This rate was only effective prior to April 1, 2018. The customer service agreements were amended in March, 2018 to change the methodology for calculation of integrated connection fees. For the new integrated connection fee is effective as of April 1, 2018, see the below table.

Source: City of Grand Rapids

**CITY OF GRAND RAPIDS, MICHIGAN
WATER SUPPLY SYSTEM
INTEGRATED CONNECTION FEES EFFECTIVE APRIL 1, 2018**

	<u>Base Fee</u>	<u>Meter Capacity Fee</u>	<u>Total</u>
Residential Users Only (3 residential units or fewer)	\$350	\$175	\$525
Water Meter Size			
3/4" or less	\$670	\$175	\$845
1"	850	250	1,100
1-1/2"	1,120	800	1,920
2"	1,570	900	2,470
3"	1,910	1,100	3,010
4"	2,650	At cost	2,650+cost
6" & over	3,850	At cost	3,850+cost

Statements of Operations - Historical

The rate increases or decreases under the rate setting methodology have produced the results of operations from the WSS for the fiscal years ended June 30, 2014 through June 30, 2018 as set forth below.

**CITY OF GRAND RAPIDS, MICHIGAN
WATER SUPPLY SYSTEM
STATEMENTS OF OPERATIONS – HISTORICAL**

	<u>Fiscal Years Ended June 30,</u>				
	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
REVENUES					
Retail Service Charges	\$33,935,923	\$33,350,599	\$34,713,082	\$36,652,888	\$38,969,891
Wholesale Service Charges	3,565,337	3,461,458	3,764,695	3,730,651	3,907,275
Connection & Front Foot Fees	956,129	1,158,332	1,473,203	1,075,768	1,015,925
Sewage Disposal Fund–Customer Svc.	2,080,651	1,899,516	1,931,449	2,119,181	2,399,188
Other Operating Revenues ⁽¹⁾	2,091,036	2,164,006	2,017,433	2,192,821	1,829,050
Interest on Investments	228,314	219,509	164,860	184,287	327,115
Miscellaneous (Non-Operating)	787,378	691,654	826,672	1,086,059	740,000
Total Revenues	<u>\$43,644,768</u>	<u>\$42,945,074</u>	<u>\$44,891,394</u>	<u>\$47,041,655</u>	<u>\$49,188,444</u>
OPERATING EXPENSES					
Administration	\$3,128,590	\$2,297,130	\$3,586,653	\$2,489,044	\$3,183,036
Customer Services	5,297,889	4,906,917	4,968,219	5,604,469	5,265,070
Engineering	1,127,987	1,081,195	1,095,563	1,099,908	1,064,547
Distribution System	3,570,772	2,843,010	2,340,520	2,395,076	2,323,976
Repair & Maintenance	5,476,067	6,164,383	7,172,078	6,854,568	7,050,479
Filtration Plant	6,328,534	6,296,533	6,388,436	6,851,536	7,963,749
Depreciation	8,376,548	8,286,863	8,425,252	8,887,670	9,153,930
Total Expenses	<u>\$33,306,387</u>	<u>\$31,876,031</u>	<u>\$33,976,721</u>	<u>\$34,182,271</u>	<u>\$36,004,787</u>
ADDITIONS - DEPRECIATION	<u>8,376,548</u>	<u>8,286,863</u>	<u>8,425,252</u>	<u>8,887,670</u>	<u>9,153,930</u>
NET EARNINGS ⁽²⁾	<u>\$18,714,929</u>	<u>\$19,355,906</u>	<u>\$19,339,925</u>	<u>\$21,747,054</u>	<u>\$22,337,587</u>

⁽¹⁾ Includes public fire protection, contractor services, jobbing materials, penalties, service fees, and unmetered water sales.

⁽²⁾ Pursuant to bond ordinance definition of Net Earnings.

Source: City of Grand Rapids

Net Earnings and Bond Coverage - Historical

The Bond Ordinance requires that the net revenue generated by the WSS must be sufficient to meet the cash requirements of the WSS which include: (a) administrative, operation, and maintenance expenses; (b) debt service requirements on bonded debt; and (c) expenditures for capital improvements not financed from bond proceeds or contributions. In addition, the City covenants and agrees that it will, at all times, on a pro forma basis, prescribe and maintain and thereafter collect rates and charges for the services and facilities furnished by the WSS which, together with other income, are reasonably expected to yield annual net earnings in the current fiscal year equal to at least one hundred twenty percent (120%) of the annual principal and interest requirement in such fiscal year.

Net earnings of the WSS are stated in the section entitled "Statements of Operations." The table below sets forth the debt service and coverage ratio based upon the net earnings of the WSS for the fiscal years ended June 30, 2014 through 2018. The coverage ratio has been determined by dividing the net earnings for each fiscal year by the total annual principal and interest payments of outstanding bonds for each fiscal year.

CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM NET EARNINGS AND BOND COVERAGE – HISTORICAL

Fiscal Years Ended June 30,

	2014	2015	2016	2017	2018
Net Earnings of the System	\$18,714,929	\$19,355,906	\$19,339,924	\$21,747,054	\$22,337,587
Total Net Senior Debt Service	15,442,333	15,539,397	13,610,609	13,776,401	14,348,419
Coverage-Senior Debt	1.21	1.25	1.42	1.58	1.56
Junior Lien Bonds Debt Service (1)	362,179	564,875	1,519,757	993,343	1,579,267
Coverage Ratio-All Debt	1.18	1.20	1.28	1.47	1.40
Total Available After Debt Service	\$2,910,417	\$3,251,634	\$4,209,558	\$6,977,310	\$6,409,901

⁽¹⁾ Based on maximum principal draws with no principal forgiveness incentives.

Source: City of Grand Rapids

Revenue Requirements and Percentage Rate Adjustments – Projected

The rate setting methodology when applied to future operations and maintenance costs, depreciation, and return on investment requirements results in the following projected revenue requirements and anticipated rate adjustments for the calendar years beginning January 1, 2019 through January 1, 2023.

CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM REVENUE REQUIREMENTS AND RATE ADJUSTMENTS - PROJECTED ⁽¹⁾

Rate Study Year Date Effective	2018 1/1/2019	2019 1/1/2020	2020 1/1/2021	2021 1/1/2022	2022 1/1/2023
Operation and Maintenance ⁽²⁾	\$24,681,476	\$25,402,175	\$26,049,930	\$27,154,447	\$27,988,089
Depreciation Expense ⁽³⁾	7,827,518	7,675,703	7,492,531	7,461,281	7,424,149
Return on System Investment ⁽⁴⁾	13,077,518	13,208,293	13,340,376	13,473,780	13,608,518
Less: Revenue Credits ⁽⁵⁾	(754,101)	(618,700)	(618,700)	(618,700)	(618,700)
Less: Integrated System Credits ⁽⁵⁾	(569,709)	(548,001)	(548,001)	(548,001)	(548,001)
Less: Circuit Breaker ⁽⁵⁾	(394,237)	(229,844)	(230,471)	(231,098)	(231,726)
Total Revenue Requirements	\$43,868,465	\$44,889,626	\$45,485,666	\$46,691,708	\$47,622,329
Gross Rate Increase / (Decrease) From Prior Year Necessary to Meet Total Revenue Requirements ⁽⁶⁾	2.71%	2.33%	1.33%	2.65%	1.99%

- (1) Revenue requirements per the 2018 Rate Study.
 (2) Projections for the 2019 Rate Study and thereafter are increased proportionately per the City's FY2019-2023 Fiscal Plan.
 (3) Projections for the 2019 Rate Study and thereafter are based on the City's fixed asset system projections and on assets in service on June 30, 2018.
 (4) Projections for the 2019 Rate Study and thereafter are based on the 2018 Rate Study.
 (5) Projections for the 2019 Rate Study and thereafter are based on the City's FY2019-2023 Fiscal Plan.
 (6) These percentages represent the required changes in gross revenues of the WSS if the three-year average billed volume remains the same as in the 2018 Rate Study, but because of variations in billed volume and other factors, such as capital improvement projects servicing specific customer communities, the actual percentage change in rates for the individual customer communities will vary from these figures.
 Source: City of Grand Rapids

Statements of Operations – Projected

The City projects that the rates in effect for the year commencing January 1, 2017, and the projected rate increases or decreases for future years as shown above will yield the projects results of operations for the WSS for the fiscal years ending June 30, 2019 through June 30, 2023, as set forth in the following table.

CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM STATEMENTS OF OPERATIONS - PROJECTED ⁽¹⁾

Revenues	Fiscal Years Ended June 30,				
	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Retail Service Charges	\$38,713,879	\$39,680,851	\$40,671,997	\$41,687,923	\$42,729,246
Wholesale Service Charges	3,811,587	3,906,877	4,004,549	4,104,662	4,207,279
Connection & Front Foot Fees	698,001	698,001	698,001	698,001	698,001
Sewage System Customer Svcs	2,510,424	2,388,582	2,537,458	2,726,342	2,771,425
Other Operating Revenues	1,813,700	1,813,700	1,813,700	1,813,700	1,813,700
Interest on Investments	386,286	485,334	553,312	622,203	691,093
Miscellaneous (Non-Operating)	740,000	560,000	480,000	480,000	480,000
Total Revenues	<u>\$48,673,877</u>	<u>\$49,533,345</u>	<u>\$50,759,017</u>	<u>\$52,132,831</u>	<u>\$53,390,744</u>
Operating Expenses					
Administration	\$2,706,848	\$2,892,169	\$2,795,134	\$2,874,938	\$2,948,505
Customer Services	5,806,847	5,676,273	5,956,939	6,322,530	6,385,852
Engineering	1,218,509	1,246,407	1,280,157	1,310,634	1,327,850
Distribution System	2,749,941	2,837,872	2,940,787	3,041,048	3,118,303
Repair and Maintenance	8,054,429	8,231,219	8,406,865	8,609,908	8,752,824
Filtration Plant	8,583,641	8,557,092	8,796,870	9,029,676	9,148,905
Depreciation ⁽²⁾	8,976,389	8,762,178	8,725,632	8,682,209	7,580,706
Total Expenses	<u>\$38,096,604</u>	<u>\$38,203,210</u>	<u>\$38,902,384</u>	<u>\$39,870,943</u>	<u>\$39,262,945</u>
Additions:					
Depreciation	8,976,389	8,762,178	8,725,632	8,682,209	7,580,706
Net Earnings ⁽³⁾	<u>\$19,553,662</u>	<u>\$20,092,313</u>	<u>\$20,582,265</u>	<u>\$20,944,097</u>	<u>\$21,708,505</u>

- (1) Projections are taken from the City's FY2019-2023 Fiscal Plan, except as noted in (2) below.
 (2) Projections are taken from the City's fixed asset system based on assets in service on June 30, 2017.
 (3) Pursuant to Master Bond Ordinance definition of Net Earnings.
 Source: City of Grand Rapids

GRAND RAPIDS DOWNTOWN DEVELOPMENT AUTHORITY

The Grand Rapids Downtown Development Authority (the Authority), a component unit of the City of Grand Rapids, Michigan (the City), was created in 1979 by the City of Grand Rapids under the provisions of the State of Michigan Public Act 197 of 1975, as amended (“Act 197.”) The purpose of the Authority is to correct and prevent deterioration in business districts; encourage historic preservation; authorize the acquisition and disposal of interests in real and personal property; authorize the creation and implementation of development plans in the districts; promote the economic growth of the districts; authorize the levy and collection of taxes; authorize the issuance of bonds and other evidences of indebtedness; and authorize the use of tax increment financing.

The Authority’s tax capture district was once bounded roughly by Interstate 196 on the north, Division Avenue on the east, Cherry and Wealthy Streets on the south and Seward Street on the west. In November, 2007 the Authority and the Grand Rapids City Commission approved a plan amendment that nearly doubled the Authority’s development area. The expanded boundaries were roughly Newberry Street on the north, west of Lafayette Avenue or Prospect Avenue on the east, north of Logan Street or Wealthy Street on the south, and east of Lexington Avenue or Seward Avenue on the west. The initial property tax increment revenue 2007 expansion capture was in the fiscal year ended June 30, 2009. The 2007 expansion sub-districts are identified as Sub-Districts I, J, and K.

In December, 2016 the Authority and the Grand Rapids City Commission approved a plan amendment to expand the Authority’s tax capture boundaries to include five new sub-districts, known as Sub-Districts L, M, N, O, and P. After a sixty-day waiting period all four local units chose to not opt out of the new sub-districts. Further, where local units had previously opted out of the Authority’s capture for Sub-Districts F, I, J, and K, the local units chose to rescind the prior opt outs in return for annual tax increment revenue rebates based on a percentage of the Authority’s district-wide tax increment revenues resulting from that unit’s millage. The rebate shares range from 10% for the fiscal year ending June 30, 2018 through 25% for the fiscal years ending June 30, 2032 and beyond. The first year of property tax increment revenue capture for Sub-Districts L, M, N, O, and P was Roll Year 2017 / FY2018.

The Authority captures property tax increment revenues from two sources, local mills and school mills. Local property tax increment (“LTI”) revenues are captured from mills levied by the City of Grand Rapids, the County of Kent, the Inter-urban Transit Partnership and the Grand Rapids Community College. School property tax increment (“STI”) revenues are captured from mills levied by the State of Michigan, the Grand Rapids Public Schools, and the Kent Intermediate School District millages.

Under the provisions of Act 197, the Authority may capture STI revenues only to the extent that both city and county operating mills are captured. Until 2017, the County of Kent chose to ‘opt out’ of the Authority’s Sub-Districts F, I, J, and K which meant STI revenues were not captured from these four sub-districts. Beginning with Roll Year 2017, the County of Kent rescinded its prior “opt out,” (see above) which allowed the Authority to capture STI revenues from Sub-Districts F, I, and J. STI revenues are still not captured from Sub-Districts H and K since the City’s SmartZone LDFAs capture all LTI revenues for these two districts.

State law restricts the Authority’s use of STI revenues for payment of debt service and other eligible obligations (together, “eligible obligations”) in existence prior to January 1, 1995 and also for refunding of any of those pre-1995 eligible obligations. The Authority’s debt service for obligations issued after January 1, 1995 and for all of the Authority’s development projects are funded with either LTI or non-tax increment revenues. The Authority’s non-tax increment revenues result primarily from interest on investments and parking revenues generated by parking facilities located on property owned by the Authority.

**CITY OF GRAND RAPIDS, MICHIGAN
DOWNTOWN DEVELOPMENT AUTHORITY
HISTORICAL CAPTURED MILLAGE RATES OF THE TAXING JURISDICTIONS**

Roll Year	Fiscal Year	Local Tax Mills	Education/ "School Tax" Mills		NON-PRE TOTAL MILLAGES
			PRE/ Homestead	Non-PRE/ Non-Hmstd	
1985	1986	13.92803	n/a	36.0500 ¹	49.9780
1986	1987	13.9274	n/a	36.3500 ¹	50.2774
1987	1988	13.9141	n/a	39.3430 ¹	53.2571
1988	1989	14.1887	n/a	41.0843 ¹	55.2730
1989	1990	14.1188	n/a	45.3480 ¹	59.4668
1990	1991	15.6093	n/a	44.7512 ¹	60.3605
1991	1992	17.5174	n/a	42.9337 ¹	60.4511
1992	1993	17.3771	n/a	43.5945 ¹	60.9716
1993	1994	16.6170	32.6311	42.2069 ¹	58.8239
1994	1995	16.8867	11.4812	29.4812	46.3679
1995	1996	15.6625	11.4603	29.4603	45.1228
1996	1997	14.6649	11.4803	29.4803	44.1452
1997	1998	14.6720	11.4703	29.4703	44.1423
1998	1999	15.3644	11.0784	29.0784	44.4428
1999	2000	15.3363	11.0225	29.0225	44.3588
2000	2001	16.0215 ⁴	10.8030	28.7526	44.7741
2001	2002	15.9302	10.8099	28.6680	44.5982
2002	2003	15.9006	10.7992	28.7992	44.6998 ²
2003	2004	15.8348	9.5903 ⁸	27.5057 ⁸	43.3405
2004	2005	16.2022 ^{4, 6}	13.2133	31.0391 ^{5, 9}	47.2413
2005	2006	16.1728	12.7553	30.5811 ³	46.7539
2006	2007	16.2522 ⁷	12.4603	30.2861	46.5383
2007	2008	16.3718 ⁶	13.3903	31.3903	47.7621
2008	2009	16.5415 ⁴	13.3903	31.3903	47.9318
2009	2010	16.6714 ⁶	13.1103	31.1103	47.7817
2010	2011	16.6716	12.9803	30.9803	47.6519
2011	2012	16.8418 ⁴	13.0403	31.0503	47.8921
2012	2013	16.7621 ⁶	14.2903 ¹⁰	32.2903	49.0524
2013	2014	16.8224	14.2903	32.2903	49.1127
2014	2015	18.0279 ^{7, 11}	14.2903	32.2903	50.3182
2015	2016	18.0276	14.5903	32.5903	50.6179
2016	2017	17.9915 ¹²	16.5352	34.5352	52.5267
2017	2018	17.8815 ¹²	15.9194	33.9194	51.8009

PRE = Principal Residence Exemption; NPRE = Non-Principal Residence Exemption

¹ In 1993/FY1994 the GR-DDA did not capture Grand Rapids Public Schools ("GRPS") debt millage. Staff has been unable to determine whether the debt millage was captured prior to 1993.

² Capture of school tax increment for Districts F and H ceased beginning 2005/FY2006 per the State's request.

³ Added Districts G and H to Development Plan 1 capture boundaries in 2002/FY2003.

⁴ The Interurban Transit Partnership was formed in January, 2000 when voters approved the creation of a multi-jurisdictional entity with a four year millage. Voters have renewed existing millages every four years and approved millage rate increases beginning in the 2004, 2008, and 2011 roll years. For Roll Year 2013, the rate changed from 1.41000 to 1.4700 mills.

⁵ Voters approved an increase in the GRPS debt millage (from 0.8000 to 2.6800 mills) for multiple school building replacement/rehabilitation projects beginning 2004/FY2005. For Roll Year 2013, the rate remained 2.6000 mills.

⁶ City's refuse collection millage was increased by 0.2000 mills beginning in 2004/FY2005, by another 0.1200 mills beginning in 2007/FY2008, and by another 0.1300 mills beginning in 2009/FY2010. The millage was decreased by 0.2000 mill in 2012/FY2013. For Roll Year 2013 through Roll Year 2018, the rate remained 1.6000 mills.

⁷ Voters renewed the Kent County senior citizen support millage, approved a 0.0800 mill increase beginning in 2006/FY2007, and approved an additional 0.1756 mill increase beginning in 2014/FY2015.

⁸ The State of Michigan decreased the State Education Tax millage from 6.0000 mills to 5.0000 mills for 2003/FY2004 only.

⁹ Voters approved a 0.7430 mill net increase for the Kent Intermediate School District beginning 2004/FY2005.

¹⁰ Voters approved 1.0000 mill for creation of a Grand Rapids Public Schools sinking fund for capital repairs which expired after Roll Year 2016.

¹¹ Voters approved 0.9800 mill for 7 years in support of City parks and 0.0500 mill for County of Kent veterans' services for 8 years.

¹² Per the 2016 Plan Amendment, the voter approved Kent County levies for Zoo/Museum operations (originally 0.4400 mill) and for Early Childhood Development (0.2500 mill) are not captured since they were approved after November 7, 2016.

CITY OF GRAND RAPIDS, MICHIGAN
DOWNTOWN DEVELOPMENT AUTHORITY – DEVELOPMENT PLAN AREA 1
AD VALOREM ASSESSED VALUATIONS – HISTORICAL

Roll Year	Fiscal Year	Total Assessed Valuation	Less: Initial Year Valuation	Captured Assessed Valuation	% Change Over Prior Year ⁸
1985	1986	\$48,104,150	\$28,469,700	\$19,634,450	30.0%
1986	1987	49,637,950	27,052,600	22,585,350	15.0%
1987	1988	54,715,100	27,159,000	27,556,100	22.0%
1988	1989	60,866,600	27,159,000	33,707,600	22.3%
1989	1990	65,179,750	27,159,000	38,020,750	12.8%
1990	1991	69,095,100	27,159,000	41,936,100	10.3%
1991	1992	76,272,300	27,279,000	48,993,300	16.8%
1992	1993	87,425,017	28,301,500	59,123,517	20.7%
1993	1994	97,865,000	27,812,600	70,052,400	18.5%
1994	1995 ¹	126,404,100	31,895,300	94,508,800	34.9%
1995	1996 ¹	139,023,867	31,895,300	107,128,567	13.4%
1996	1997 ²	143,989,934	31,895,300	112,094,634	4.6%
1997	1998 ²	153,710,185	31,895,300	121,814,885	8.7%
1998	1999 ^{2,4}	203,909,131	33,635,270	170,273,861	39.8%
1999	2000 ²	213,321,189	33,635,270	179,685,919	5.5%
2000	2001 ²	211,827,610	33,635,270	178,192,340	(0.8%)
2001	2002	213,084,653	33,635,270	179,449,383	0.7%
2002	2003 ⁵	273,164,380	87,406,488	185,757,892	3.5%
2003	2004 ⁶	271,789,814	86,868,580	184,921,234	(0.5%)
2004	2005 ⁷	282,356,639	87,284,880	195,071,759	5.5%
2005	2006	293,062,670	87,284,880	205,777,790	5.5%
2006	2007	310,564,573	87,284,880	223,279,693	8.5%
2007	2008	333,804,984	87,284,880	246,520,104	10.4%
2008	2009	422,163,545	147,752,451 ⁹	274,411,094	11.3%
2009	2010	484,626,596	160,352,382	324,274,214	18.2%
2010	2011	473,138,937	160,352,382	312,786,555	(3.5%)
2011	2012	461,134,175	163,558,491 ¹⁰	297,575,684	(4.9%)
2012	2013	449,963,527	163,558,491	286,405,036	(3.8%)
2013	2014	446,699,251	163,558,491	283,140,760	(1.1%)
2014	2015	454,495,745	163,634,789	290,860,956	2.7%
2015	2016	472,130,587	163,634,789	308,495,798	6.1%
2016	2017	492,303,199	163,634,989	328,668,210	6.5%
2017	2018 ³	590,284,761 ¹¹	220,480,274 ¹¹	369,804,487	12.5%
2018	2019	621,940,486	221,054,965	400,885,521	8.4%

See Notes on the next page.

Downtown Development Authority Ad Valorem Assessed Valuations – Historical – continued from prior page

Notes for the Table on Prior Page

- Note 1: Initial values were corrected based on research related to the State’s audit of the GR-DDA’s Forms 2604 for roll years 1994 through 2000.
- Note 2: Total assessed valuations haven’t been adjusted to reflect valuation changes related to Board of Review, Tax Tribunal, and/or State Tax Commission decisions including the Amway Grand Plaza and Plaza Towers appeals decisions affecting roll years 1996 through 2000. Roll year 2001 includes the \$13,326,791 decrease for the Amway Grand Plaza & Plaza Towers real property assessments as do years after 2001.
- Note 3: Total Roll Year 2017 assessed valuation data as of April 18, 2018. Valuations may still be affected by Board of Review, Michigan Tax Tribunal, and/or State Tax Commission decisions issued after April, 2018. Roll year 2018 data based on March 2018 Board of Review values.
- Note 4: District F was added to the capture boundaries. Ad valorem initial value was \$1,739,970.
- Note 5: Districts G and H added to capture boundaries. Ad valorem initial value for District G was \$23,487,549 and District H was \$30,283,669.
- Note 6: Initial values for Districts G and H adjusted per order changes. District G real property initial value decreased by \$368,208. District H personal property initial value decreased by \$169,700.
- Note 7: City Assessor adjusted District H parcel list & initial values when it was discovered the newly created SmartZone LDFA parcel list, which overlaps all of DDA District H, omitted parcels, included wrong parcels, and mathematical errors. DDA initial value net increase was \$416,300.
- Note 8: Assessed valuations were based on state equalized value until roll year 1994 at which time the taxable value classification was created and property taxes began to be assessed against taxable value.
- Note 9: The Authority expanded to include Sub-Districts I, J, and K which added 976 parcels to the Authority’s boundaries.
- Note 10: Effective April 21, 2011, the State Tax Commission changed the treatment of abatement-based initial values by requiring them to be moved from the abatement roll to the ad valorem roll when the abatements expire. This reversed their 1997 decision which required abatement-based initial values to remain in the category in which the value was located when the district/sub-district was created.
- Note 11: In December, 2016 the Authority expanded its Development Plan Area 1 boundaries to include Sub-Districts L, M, N, O, and P. At the time the new districts were added, total ad valorem initial values for the additional five districts were \$56,605,158 and Industrial Facilities Tax Roll initial values were \$3,031,571.

**CITY OF GRAND RAPIDS, MICHIGAN
DOWNTOWN DEVELOPMENT AUTHORITY
ECONOMIC DIVERSITY WITHIN
AUTHORITY DEVELOPMENT PLAN AREA #1**

<u>USE¹</u>	<u>2017 / FY2018</u>
Commercial	\$ 455,161,620
Industrial	24,661,525
Residential	105,777,218
Utility	-
TOTAL ASSESSED VALUATION	<u>\$ 585,600,363</u>

<u>CLASS¹</u>	<u>2017 / FY2018</u>
Real Property	\$ 517,941,163
Personal Property	67,659,200
TOTAL ASSESSED VALUATION	<u>\$ 585,600,363</u>

Note 1: Includes the assessed value of properties with industrial facilities tax and other abatements rolls as well as ad valorem values.

**CITY OF GRAND RAPIDS, MICHIGAN
TEN HIGHEST ASSESSED VALUATIONS WITHIN
DOWNTOWN DEVELOPMENT AUTHORITY
DEVELOPMENT PLAN AREA #1**

<u>Property Owner</u>	<u>Roll Year 2017 / Fiscal Year 2018</u>				<u>% of DDA</u>
	<u>Real</u>	<u>Personal</u>	<u>IFT</u>	<u>TOTAL</u>	<u>Assessed Valuation</u>
Amway Hotel Corporation	\$ 31,844,441	\$ 8,212,500	\$-	\$ 40,056,941	6.84%
HP3 LLC	21,317,660	3,133,600	-	24,451,260	4.18%
CWD 111 Lyon LLC	16,839,900	-	-	16,839,900	2.88%
Hertz Grand Rapids One LLC	13,991,597	50,300	-	14,041,897	2.40%
Waters Building LLC	12,243,263	144,500	-	12,387,763	2.12%
VREI 99 LLC	11,472,700	75,600	-	11,548,300	1.97%
Arena Place Development LLC	11,441,128	-	-	11,441,128	1.95%
Deep Creek Holdings LLC	10,001,513	107,400	-	10,108,913	1.73%
55 Ionia Partners LLC	7,375,460	201,800	-	7,577,260	1.29%
Dutch Icon on Bond LLC	7,085,917	-	-	7,085,917	1.21%
TOTAL 2017 / FY2018	<u>\$ 143,613,579</u>	<u>\$ 11,925,700</u>	<u>\$-</u>	<u>\$ 155,539,279</u>	<u>26.56%</u>

**DOWNTOWN DEVELOPMENT AUTHORITY
HISTORICAL / PROJECTED TAX INCREMENT REVENUE AND DEBT SERVICE COVERAGE**

Roll Year	FYE June 30	Historical / Projected Tax Increment Revenues ¹			Debt Service ²				Total Debt Coverage
		Local Mills	Education Mills ³	TOTAL	Series 1989 & Series 1993	Series 1994, & 2009 & 2017 Refundings	Debt Issued After 1994	TOTAL	
1994	1995	\$ 1,913,230	\$ 3,103,396	\$ 5,016,626	\$ 1,365,540	\$ 2,550,155	\$ -	\$ 3,915,695	1.28
1995	1996	2,044,235	3,318,229	5,362,464	1,308,242	2,919,861	-	4,228,103	1.27
1996	1997	2,170,754	3,525,653	5,696,407	1,293,427	2,919,861	590,912	4,804,200	1.19
1997	1998	2,216,317	3,599,704	5,816,021	699,854	3,319,861	601,877	4,621,592	1.26
1998	1999	2,613,801	4,675,598	7,289,399	679,363	3,652,861	620,680	4,952,904	1.47
1999	2000	2,764,977	5,055,938	7,820,915	706,664	3,825,393	617,819	5,149,876	1.52
2000	2001	2,847,682	4,919,263	7,766,945	722,478	3,939,133	624,359	5,285,970	1.47
2001	2002	2,843,000	4,942,551	7,785,551	722,692	4,022,158	620,377	5,365,227	1.45
2002	2003	2,801,568	5,134,973	7,936,541	739,994	4,089,758	722,325	5,552,077	1.43
2003	2004	2,820,761	4,752,047	7,572,808	724,628	4,197,223	276,128	5,197,979	1.46
2004	2005	3,041,221	5,672,387	8,713,608	731,786	4,281,163	508,514	5,521,463	1.58
2005	2006	3,057,532	5,687,263	8,744,795	267,879	4,836,818	535,183	5,639,880	1.55
2006	2007	3,250,069	5,921,033	9,171,102	269,236	4,932,778	531,480	5,733,494	1.60
2007	2008	3,681,000	6,871,108	10,552,108	269,875	5,029,678	532,660	5,832,213	1.81
2008	2009	4,241,818	7,552,304	11,794,122	269,875	4,974,380	546,689	5,790,944	2.04
2009	2010	4,743,608	8,399,795	13,143,403	269,375	5,071,843	529,129	5,870,347	2.24
2010	2011	4,527,679	7,765,877	12,293,556	268,375	4,994,525	528,768	5,791,668	2.12
2011	2012	4,373,708	7,365,197	11,738,905	271,750	5,094,525	525,655	5,891,930	1.99
2012	2013	4,178,913	6,780,973	10,959,886	269,500	5,204,525	823,226 ⁴	6,297,251	1.74
2013	2014	4,236,321	7,350,094	11,586,415	271,625	5,199,525	208,600	5,679,750	2.04
2014	2015	4,712,336	7,508,989	12,221,325	-	5,479,525	458,601	5,938,126	2.06
2015	2016	4,930,670	7,972,845	12,903,515	-	5,479,525	459,291	5,938,816	2.17
2016	2017	5,573,340	9,671,199	15,244,539	-	5,771,199 ⁶	454,737	6,225,936	2.45
2017	2018	5,995,795	5,992,837 ⁵	11,988,632	-	9,380,463 ⁶	453,387	9,833,850	1.22
2018	2019	6,119,735	8,179,822 ⁵	14,299,557	-	7,649,200 ⁶	415,007	8,064,207	1.77
2019	2020	6,150,709	10,259,551	16,410,260	-	7,230,500 ⁶	416,808	7,647,308	2.15
2020	2021	6,181,837	10,311,223	16,493,060	-	6,986,750 ⁶	412,210	7,398,960	2.23
2021	2022	6,213,121	10,363,155	16,576,276	-	6,814,500 ⁶	390,100	7,204,600	2.30
2022	2023	6,244,562	- ⁶	6,244,562	-	-	393,400	393,400	15.87
2023	2024	6,232,008	- ⁶	6,232,008	-	-	391,200	391,200	15.93
2024	2025	6,219,328	-	6,219,328	-	-	75,000	75,000	82.92
2025	2026	6,206,521	-	6,206,521	-	-	75,000	75,000	82.75
2026	2027	6,193,586	-	6,193,586	-	-	75,000	75,000	82.58
2027	2028	6,180,522	-	6,180,522	-	-	75,000	75,000	82.41
2028	2029	6,167,327	-	6,167,327	-	-	75,000	75,000	82.23
2029	2030	6,154,001	-	6,154,001	-	-	75,000	75,000	82.05
2030	2031	6,140,541	-	6,140,541	-	-	75,000	75,000	81.87
2031	2032	6,126,946	-	6,126,946	-	-	75,000	75,000	81.69
					\$ 12,122,158	\$ 139,847,686	\$ 14,789,121	\$ 166,758,965	

See Notes on next page.

Downtown Development Authority Historical / Projected Tax Increment Revenue and Debt Service Coverage –
continued from prior page

Notes for the Table on Prior Page

Note 1: FY2018-2032 estimated revenues include estimated tax increment revenues captured from Sub-Districts L, M, N, O, and P. Forecasted revenues have been reduced by estimated losses for property assessment appeals.

Note 2: DDA-supported debt issued prior to 1995, and issues which refund these pre-1995 debt, are defined by the Authority's authorizing statutes as "eligible obligations" for which school tax related revenues may be captured to support debt service. The Authority's post-1994 debt is supported by local tax increment revenues and includes Series 2008 Kent County Drain Commission bonds, Series 2013B City County Building Authority bonds, and \$75,000 to partially support Brownfield Redevelopment Authority Series 2012A bonds.

Note 3: By statute, any school tax increment revenue captured in excess of eligible debt service must be reimbursed to the taxing unit from which it was captured.

Note 4: Beginning with FY2013, the DDA agreed to pay the first \$75,000 of annual Brownfield Redevelopment Authority Series 2012A thru 06/01/2032 debt service.

Note 5: The DDA captured only 60% of available tax increment revenues from Education Mills for fiscal year ended June 30, 2018 and only 90% in fiscal year ending June 30, 2019. This was possible since Series 1994 Debt Service Reserve Funds were available to supplement tax increment revenues for payment of debt service for these two fiscal years.

Note 6: On March 8, 2017 the City issued Downtown Development Series 2017 Improvement and Refunding Bonds to refund the Downtown Development Series 2009 maturities dated May 1, 2020 through May 1, 2024. Principal payments for these five maturities were re-allocated to the Series 2017 May 1, 2017 through May 1, 2022 maturities to eliminate the need for May 1, 2023 and 2024 maturities and to cease the capture of school tax increment revenues two years earlier than previously planned.

TABLE A - Page 1 of 3 pages
CITY OF GRAND RAPIDS, MICHIGAN
CONTINUING DISCLOSURE STATEMENT
MATRIX OF FINANCIAL DISCLOSURES FOR ISSUES DATED JULY 1, 1998 - MAY 6, 2009
November 28, 2018

	CUSIP Internal Issue #	386289 #48	386289 #73	386244 #76	386226 #78	386316 #81	386289 #82	386445 County #83	386244 #84	386244 #84	59455T #85	386316 #86
Amount of Issue		\$ 83,650,000	\$ 51,525,000	\$ 7,375,000	\$ 14,740,000	\$ 32,900,000	\$ 67,260,000	\$ 7,870,000	\$ 8,980,000	\$ 18,005,000	\$ 28,430,000	\$ 30,000,000
Type		SSS-Revenue	SSS-Revenue	GRBA-GOLT	CIB-GOLT	WSS-Rev Refnd	SSS-Revenue	Drain - FW	GRBA-GOLT	GRBA-GOLT	MMBA-LGLP	WSS-Revenue
Date of Issue		07/01/1998	10/27/2005	11/15/2006	05/16/2007	04/08/2008	08/06/2008	09/18/2008	12/23/2008	03/04/2009	03/18/2009	05/06/2009
Final Maturity (including terms)		01/01/2028	01/01/2035	10/01/2036	09/01/2027	01/01/2020	01/01/2038	11/01/2020	10/01/2029	08/01/2020	05/01/2024	01/01/2039
Dissemination Agent		City	City	City	City	City	City	City	City	City	City	City
- Population	X	X	X	X	X	X	-	-	X	X	X	X
- Taxable Value	X	X	X	X	X	X	X	X	X	X	X	X
- TV - by Use and Class (\$ / %)	X	X	X	X	X	X	-	-	X	X	X	-
- State Equalized Value	X	X	X	X	X	X	X	X	X	X	X	X
- SEV - by Use and Class (\$ / %)	X	X	-	-	-	X	-	-	X	X	X	-
- Ten Largest Valuations by TV	-	X	X	X	X	X	X	X	X	X	X	X
- State and Local Tax Limitations	X	-	-	-	-	-	-	-	-	-	-	-
- Maximum Property Tax Rates	-	X	X	X	X	-	X	X	X	X	X	X
- Property Tax Rates - Grand Rapids and Homestead / Non-Homestead	X	X	X	X	X	X	XXX	XXX	X	X	X	X
- Property Tax Collections	X	X	X	X	X	X	X	X	X	X	X	X
- Status of Labor Contracts	X	X	X	X	X	X	X	X	X	X	X	X
- Statement of Legal Debt Margin	X	X	X	X	X	X	X	X	X	X	X	X
- Debt Statement	X	X	X	X	X	X	X	X	X	X	X	X
- Schedule of Bond Maturities	X	X	-	-	X	X	X	X	X	X	X	X
- Income Tax Collections	X	X	X	X	X	X	X	X	X	X	X	X
- Retirement Plans - General and Police & Fire	-	X	X	X	X	X	XX	XX	X	X	X	X
- Other Postemployt Benefits (OPEB)	-	-	-	-	-	X	X	X	X	X	X	X
- Employment	X	-	-	-	-	-	-	-	-	-	-	-
- General Fund Revs from Michigan	X	X	-	-	X	X	X	X	-	-	-	X
- Retail Billings & Collections	X	X	-	-	X	X	X	-	-	-	-	X
- 10 Largest Retail Customers	X	X	-	-	X	X	-	-	-	-	-	X
- Comparative Analysis of WSS Rates	-	-	-	-	-	X	-	-	-	-	-	X
- Stmt of Operations-Historical & Projected	X	-	-	-	-	X	XX	-	-	-	-	X
- Debt Service & Coverage Ratio	X	-	-	-	-	X	-	-	-	-	-	X
- Economic Profile - Industrial	X	-	-	-	-	-	-	-	-	-	-	-
- Economic Profile - Commercial	X	-	-	-	-	-	-	-	-	-	-	-
- GR Regional Retail Sales	X	-	-	-	-	-	-	-	-	-	-	-
- Effective Hshold Buying Income	X	-	-	-	-	-	-	-	-	-	-	-
- Annual Water Sales - Gals/Pumpage/\$	-	-	-	-	-	X	-	-	-	-	-	X
- Daily Water Pumpage	-	-	-	-	-	X	-	-	-	-	-	-
- Revenue Requirements & % Rate	-	-	-	-	-	XX	XX	-	-	-	-	X
- Adjustments - Historical & Projected	-	-	-	-	-	X	-	-	-	-	-	-
- Integrated Connection Base Fee Sched	-	-	-	-	-	-	-	-	-	-	-	-
- Wastewater Volumes	-	X	-	-	-	-	X	-	-	-	-	-
- W W T P Effluent Table	-	X	-	-	-	-	X	-	-	-	-	-
- DDA Histor Captured Millage Rates	-	-	-	-	-	-	-	-	-	-	X	-
- DDA AV Hist Assessed Valuations	-	-	-	-	-	-	-	-	-	-	X	-
- DDA Economic Diversity	-	-	-	-	-	-	-	-	-	-	X	-
- DDA Ten Highest Valuations	-	-	-	-	-	-	-	-	-	-	X	-
- DDA Projected Tax Increment & Debt Service Coverage	-	-	-	-	-	-	-	-	-	-	X	-

Issues # 64 and # 72: Per the lease agreements, GRBA \$30,855,000 Series 2002A (Issue # 64) and GRBA \$18,225,000 Series 2004A (Issue # 72) continuing disclosure requirements are executed and delivered by the State of Michigan unless there is a material event. Issue # 64 was partially defeased by Issue # 71.

Issue # 81: As permitted in the Water Supply System Series 1993 Variable Rate Demand Obligations ordinances, the City converted the Series 1993 bonds to fixed rate bonds.

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CITY OF GRAND RAPIDS, MICHIGAN
CONTINUING DISCLOSURE STATEMENT
MATRIX OF FINANCIAL DISCLOSURES FOR ISSUES DATED JANUARY 1, 2010 - MAY 16, 2013
November 28, 2018

	CUSIP	368289	368244	368244	368244	386316	386289	386244	386205	386289	386316	386289
Internal Issue #	#88	#89 Series A	#89 Series B	#90	#91	#92	#97	#99	#102	#104	#106	
Amount of Issue	\$ 29,625,000	\$ 1,770,000	\$ 2,815,000	\$ 7,325,000	\$43,025,000	\$ 24,815,000	\$ 14,585,000	\$ 2,325,000	\$ 30,000,000	\$ 3,385,000	\$ 37,830,000	
Type	SSS-Rev Refdg	GRBA-GOLT	GRBA-GOLT	GRBA-GOLT	WSS-Rev Refd	SSS Revenue	GRBA-GOLT	BRA-TIF/GOLT	SSS Revenue	WSS Rev Refd	SSS Rev Refd	
Date of Issue	01/26/2010	03/30/2010	03/30/2010	09/15/2010	10/04/2010	12/15/2010	07/28/2011	06/12/2012	10/10/2012	03/13/2013	05/16/2013	
Final Maturity (including terms)	01/01/2028	10/01/2039	10/01/2032	10/01/2035	01/01/2018	01/01/2025	10/01/2031	06/01/2032	01/01/2042	01/01/2028	01/01/2034	
Dissemination Agent	City	City	City	City	City	City	City	City	City	City	City	City
- Population	X	X	X	X	X	X	X	X	X	X	X	X
- Taxable Value	X	X	X	X	X	X	X	X	X	X	X	X
- TV - by Use and Class (\$ / %)	X	X	X	X	-	X	X	X	X	X	X	X
- Total State Equalized Valuation	X	X	X	X	-	X	X	X	X	X	X	X
- SEV - by Use and Class (\$ / %)	X	X	X	X	-	X	X	X	X	X	X	X
- Ten Largest Valuations by TV	X	-	-	-	X	X	-	-	X	X	X	X
- Maximum Property Tax Rates	X	-	-	-	X	-	-	-	-	-	-	-
- Property Tax Rates - Grand Rapids and Homestead / Non-Homestead	X	-	-	-	X	X	-	-	XXX	XXX	XXX	
- Property Tax Collections	X	X	X	X	X	X	X	X	X	X	X	X
- Status of Labor Contracts	X	X	X	X	X	X	X	X	X	X	X	X
- Statement of Legal Debt Margin	X	X	X	X	X	X	X	X	X	X	X	X
- Debt Statement	X	X	X	X	X	X	X	X	X	X	X	X
- Schedule of Remaining Bond Maturities	X	-	-	-	X	X	-	-	X	X	X	X
- Income Tax Collections	X	X	X	X	X	X	X	X	X	X	X	X
- Retirement Plans - General and Police & Fire	X	-	-	-	X	X	-	-	XX	XX	XX	
- Other Postemploymt Benefits (OPEB)	X	-	-	-	X	X	-	-	X	X	X	X
- General Fund Revs from Michigan	X	X	X	X	X	X	X	X	X	X	X	X
- Retail Billings & Collections	X	-	-	-	X	X	-	-	X	X	X	X
- 10 Largest Retail Customers	X	-	-	-	X	X	-	-	X	X	X	X
- Results of Ops-Historical & Projected	X	-	-	-	X	X	-	-	XX	XX	XX	
- Debt Srvc/Coverage Ratio-Historical	X	-	-	-	X	X	-	-	X	X	X	X
- Annual Water Sales - Gals/Pumpage/\$	-	-	-	-	X	-	-	-	-	X	-	-
- Daily Water Pumpage	-	-	-	-	-	-	-	-	-	-	-	-
- Comparative Analysis of Rates WSS	-	-	-	-	X	-	-	-	-	-	-	-
- Revenue Requirements & % Rate	-	-	-	-	-	-	-	-	-	-	-	-
- Adjustments - Historical & Projected	X	-	-	-	X	X	-	-	XX	XX	XX	
- Integrated Connection Base Fee Sched	X	-	-	-	-	X	-	-	X	X	X	X
- Wastewater Volumes	X	-	-	-	-	X	-	-	X	-	X	X
- W W T P Effluent Table	-	-	-	-	-	-	-	-	-	-	-	-

TABLE A - Page 3 of 3 pages
CITY OF GRAND RAPIDS, MICHIGAN
CONTINUING DISCLOSURE STATEMENT
MATRIX OF FINANCIAL DISCLOSURES FOR ISSUES DATED OCTOBER 8, 2014 - SEPTEMBER 20, 2018
November 28, 2018

CUSIP	386289	386445	386316	386226	386289	386226	386316	386445	386226	386289	386316
Internal Issue #	#111	County	#113	#116	#117	#118	#120	County	#121	#123	#124
Amount of Issue	\$ 55,230,000	\$ 4,550,000	\$ 25,370,000	\$ 19,580,000	\$ 48,410,000	\$ 15,245,000	\$ 36,740,000	\$ 8,445,000	\$ 25,280,000	\$ 43,400,000	\$ 38,680,000
Type	SSS Rev Imp/Refd	Drain - FW	WSS-Rev Refd	LTGO-Rtdg	SSS Rev Refd	CB-GOLT	WSS Rev Imp/Refd	Drain - FW	LTGO-Rtd/Imp	SSS-Revenue	WSS Rev Imp/Ref
Date of Issue	10/8/2014	12/03/2014	2/25/2015	2/4/2016	3/3/2016	3/31/2016	9/22/2016	11/15/2016	3/8/2017	06/13/2018	09/20/2018
Final Maturity (inc term bonds)	01/01/2044	11/01/2034	01/01/2035	10/01/2036	01/01/2038	04/01/2026	01/01/2046	11/01/2036	05/01/2022	01/01/2048	01/01/2048
Dissemination Agent	City	City	City	City	City	City	City	City	City	City	City
- Population	X	X	X	X	X	X	X	X	X	X	X
- Total Taxable Value	X	X	X	X	X	X	X	X	X	X	X
- TV - by Use and Class (\$ / %)	X	X	XX	XX	XX	XX	XX	X	X	XX	XX
- Total State Equalized Valuation	X	X	X	X	X	X	X	X	X	X	X
- SEV - by Use and Class (\$ / %)	X	X	XX	XX	XX	XX	XX	X	X	XX	XX
- Ten Largest Valuations by TV	X	X	X	X	X	X	X	X	X	X	X
- Maximum Property Tax Rates	-	-	-	-	-	-	-	-	-	-	-
- Property Tax Rates - Grand Rapids and Homestead / Non-Homestead	XXX	XXX	XXX	XX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
- Property Tax Collections	X	X	X	X	X	X	X	X	X	X	X
- Status of Labor Contracts	X	X	X	X	X	X	X	X	X	X	X
- Statement of Legal Debt Margin	X	X	X	X	X	X	X	X	X	X	X
- Debt Statement	X	X	X	X	X	X	X	X	X	X	X
- Schedule of Remaining Bond Maturities	X	-	X	X	X	X	X	-	X	X	X
- Income Tax Collections	X	X	X	X	X	X	X	X	X	X	X
- Retirement Systems - General and Police & Fire	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
- Other Postemployment Benefits (OPEB)	X	X	X	X	X	X	X	X	X	X	X
- General Fund Revs from Michigan	X	X	X	-	X	-	X	X	X	X	X
- Retail Billings & Collections	X	-	X	-	X	-	X	-	-	X	X
- 10 Largest Retail Customers	X	-	X	-	X	-	X	-	-	X	X
- Revenue Requirements & % Rate	XX	-	Historical only	-	XXX	-	X	-	-	XX	X
- Adjustments - Historical & Projected											
- Results of Ops - Historical & Projected	XX	-	XX	-	XX	-	XX	-	-	XX	XX
- Debt Srvc & Coverage Ratio - Historical and Projected	X	-	X	-	XX	-	X	-	-	XX	X
- Annual Water Sales - Gals/Pumpage/\$	-	-	X	-	-	-	X	-	-	-	X
- Daily Water Pumpage	-	-	-	-	-	-	-	-	-	-	-
- Comparative Analysis of Rates - WSS	-	-	-	-	-	-	-	-	-	-	-
- Integrated Connection Base Fee Sched	X	-	X	-	X	-	X	-	-	X	X
- Wastewater Volumes	X	-	-	-	X	-	-	-	-	X	-
- W W T P Effluent Table	-	-	-	-	-	-	-	-	-	-	-

Issue # 107: CCJBA Series 2013B Continuing Disclosure requirements are executed and delivered by the County of Kent unless there is a material event.