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CITY OF FRESNO
CITY CLERK'S OFFICE



Amended CADR for Fiscal Year 2019

Item(s)

File ID20-0024 (1-X) - Submission and Acceptance of the City of Fresno Comprehensive Annual Financial Report (CAFR) and the Comprehensive Annual Debt Report (CADR) for Fiscal Year 2019.

Contents: **Corrections to the CADR are as follows:**

The table of contents denoted the incorrect page for the following:

1. Debt Management Program - Debt Program work Plan for FY2020 referenced page 1 as its location and it should have been page 2

And...

2. Page numbers on the Debt Detail Report were formatted. When the book was bounded, the page numbers in this section were cut off.

Supplemental Information:

Any agenda related public documents received and distributed to a majority of the City Council after the Agenda Packet is printed are included in Supplemental Packets. Supplemental Packets are produced as needed. The Supplemental Packet is available for public inspection in the City Clerk's Office, 2600 Fresno Street, during normal business hours (main location pursuant to the Brown Act, G.C. 54957.5(2)). In addition, Supplemental Packets are available for public review at the City Council meeting in the City Council Chambers, 2600 Fresno Street. Supplemental Packets are also available on-line on the City Clerk's website.

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Comprehensive Annual Debt Report

For the Fiscal Year Ended June 30, 2019



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Overview

This section of the report provides an overview of the Debt Management Program, Debt Management Policies, Rating Agency Relations and Credit Maintenance, Composition of the Debt Financing Team, and Trustee activity during the year.

The City has a variety of financing tools at its disposal, with each one having its own benefits that may work best for a particular financing. Short-term debt options include Tax and Revenue Anticipation Notes, Commercial Paper, Bond Anticipation Notes and Lines of Credit. Long-term debt options included voter approved General Obligation Bonds, Revenue Bonds, Loans and Capital Leases. Each tool is discussed in detail in the City's Debt Management Policies. The Annual Debt Report does not include discussions on City's obligation for pension and other post-employment benefits.

A. Debt Management Program

Debt Management, a section within the Finance Department, is responsible for managing both the debt issuance process and subsequent debt administration for all City borrowings. This section of the report provides an overview of debt issuance in FY 2019, the debt program work plan in FY 2020, debt administration, debt management projects that have been completed, are currently underway, or are planned for FY 2020.

1. Debt Issued During FY 2019

FY 2019 debt issuance totaled \$101.3 million, composed of the following:

- \$35 million bond issuance privately placed with the California Infrastructure and Development Bank ("I-Bank") by the Airport Department to construct a parking garage;
- Equipment lease purchases of \$8.3 million placed directly with Banc of America Public Capital Corp. for police and fire vehicles;
- A new Citywide Data System lease purchase of \$9.5 million placed directly with Key Government Finance to replace outdated network and storage equipment;
- Equipment lease purchases of \$0.8 million placed directly with Banc of America Public Capital Corp. for vehicles to support services of the Development and Resource Management Department and the Parks and Recreation and Community Services Department;
- \$34.6 million drawn down from the Drinking Water State Revolving Loan Fund for the various loans to the Water Division from the California State Water Resources Control Board; and,
- \$13.2 million drawn down from the Clean Water State Revolving Loan Fund for the recycled water distribution system loan to the Sewer Division from the California State Water Resources Control Board.

2. Debt Program Work Plan for FY 2020

New Bonds - Debt Management staff continues to look at existing debt to find opportunities to save interest expense. At the time of this publication, there is no plan to issue new bonds in FY 2020.

New Loans - Debt Management staff continues to assist Water Division staff with a detailed review of the documentation relating to the loans that may be issued in FY 2020.

New Leases - The City has budgeted for new lease payments in FY 2020 totaling \$0.5 million to fund an approximate \$4.6 million in vehicles and \$2 million to finance a new Citywide Enterprise Management System. The City currently has two Master Leases with Dell Financial Corporation for computers and Banc of America Public Capital Corp. for all other equipment.

Sewer 2008 Bond Defeasance - Debt Management staff continues to work with Wastewater Management staff on the defeasance of the 2008 Sewer Bonds. On September 4, 2018, the City defeased \$132,540,000 of the bonds, leaving an outstanding balance of \$27,305,000. On September 3, 2019, the City defeased the remaining 2008 Sewer bonds. These redemptions will save the Wastewater Division of the Department of Public Utilities an average of \$13.75 million per year between Fiscal Years 2020 and 2038.

3. Debt Administration

After debt has been issued, Debt Management is responsible for administering the debt portfolio. Section I.E of this report, Debt Financing Team, provides a detailed discussion of debt administration tasks performed by Debt Management staff.

New reporting requirements were established in FY2015 by the California Debt and Investment Advisory Commission (CDIAC) of the California State Department of the Treasury requiring any agency that is increasing debt to file a Report of Proposed Debt Issuance, followed up with a Report of Final Sale. These reporting requirements were codified on September 12, 2016 through California Senate Bill 1029 (SB 1029). In the past, issuers of the original debt instruments were required to file these reports, and borrowers of the debt from the issuer were not required to report. This change makes it imperative that Debt Management staff be involved in any and all loan transactions that the City is considering.

4. Debt Management Projects

In addition to debt issuance and administration, Debt Management staff serves in a financial advisory role to other City departments and works on other projects as necessary. Various projects and administration efforts are described on the next pages:

Master Equipment Lease Purchase Agreement (MELPA) - The City uses a single lender for all of its equipment financing needs. Early in Fiscal Year 2019, the City reached the maximum amount available to borrow under its Agreement with Banc of America Public Capital Corp. (BAPCC) nearly one year ahead of the expiration of the Agreement.

When it became apparent that the City would reach its borrowing limit under this agreement, Debt Administration staff put out a Request for Proposals (RFP) for a new MELPA. Two lenders submitted

proposals. BAPCC was determined to be the best fit for the City due to their experience with the City, their financial strength, and their longevity in the industry. The new Agreement went to the City Council on December 6, 2018 and was approved unanimously. The term will be the earlier of (1) December 31, 2021, or (2) Maximum aggregate financed of \$65 million. As of June 30, 2019, \$4.1 million of the \$65 million capacity has been utilized.

TEFRA Hearings for Conduit Financings - A Tax Equity and Financial Reform Act (TEFRA) hearing is mandated by the IRS to provide a reasonable opportunity for interested individuals to express their views, either orally or in writing, on the issuance of bonds and the nature of the improvements and projects for which bond funds will be allocated. The TEFRA hearing is held in the jurisdiction in which the facilities constructed by bond proceeds are located, and must be held prior to approval by the agency issuing the bonds.

On December 28, 2018, the IRS released updated rules for noticing TEFRA Public Hearings that allows the City to publish TEFRA Public Hearing notices on the City Clerk's website. Previously, the City had to publish TEFRA Public Hearing notices in the daily newspaper of largest circulation in the project location. In addition to the location of the publication, the IRS reduced the minimum number of days that the notice has to be published from at least 14 days prior to the hearing date to at least 7 days prior to the hearing date. These changes substantially minimize the costs of publication and timing for preparation.

The City of Fresno held five TEFRA hearings for conduit financing during FY 2019. The City does not issue debt for these projects, but assists other agencies that are formed for this specific type of financing by holding a public hearing to hear public comments regarding the project as required by the Act.

Trinity Health Corporation applied for a \$1.5 billion bond issuance with the Michigan Finance Authority for the purpose of refinancing existing bonds and financing the costs of acquisition, construction, furnishing and equipping of certain health facilities, one being Saint Agnes Medical Center in Fresno for not to exceed \$35 million. This transaction will assist Trinity Health Corporation in the continuance of quality health care to residents of Fresno and the surrounding service area.

HumanGood applied for a \$195 million bond issuance with the California Municipal Finance Authority (CMFA) for the purpose of refinancing some or all of debt currently outstanding and to finance the cost of remodeling, renovating, furnishing and equipping several of the borrower's continuing care communities located throughout the State of California, including not to exceed \$18 million for The Terraces at San Joaquin Gardens, located at 5555 North Fresno Street in Fresno. This transaction will assist residents in the Fresno area with quality affordable housing.

California Home for the Aged, Inc., doing business as California Armenian Home applied for a \$27.5 million bond issuance with the CMFA for the purpose of refinancing prior taxable obligations for the Vineyards, a continuing care retirement community, located at 6690 through 6720 East Kings Canyon Road.

Hotel Fresno Apartments, LP applied for a \$20 million bond issuance with the CMFA for the purpose of financing or refinancing the acquisition, rehabilitation, improvement and equipping of Hotel Fresno Apartments, located in downtown Fresno.

United Health Centers of the San Joaquin Valley applied for a \$12 million bond issuance with the California Enterprise Development Authority (CEDA) for the rehabilitation, construction and equipping of health care centers located at 1110 North Blackstone Avenue and 1780 East Bullard Avenue in Fresno. Up to \$6 million will be spent on each facility.

State Revolving Loan Activity

On July 15, 2015, the City entered into a 30-year agreement to borrow \$195,489,000 from the California State Water Resources Control Board for construction of a new surface water treatment facility in southeast Fresno. The interest rate is fixed at 1.663% for the term of the loan. Principal and interest due in semiannual installments will begin once the project is completed and continue for 30 years. Until completion, interest is due semiannually on the amount received by the City through the interest payment date. As of June 30, 2019, the City has received \$166,707,976 in proceeds. This amount is net of \$3,000,000 in loan forgiveness by the State Water Resources Control Board. The loan forgiveness was part of the loan agreement with the State. Debt service payments will be funded from revenues of the Water Enterprise. Once construction is completed, annual debt service is estimated to be \$8,302,895.

On September 14, 2015, the City entered into a 30-year agreement to borrow \$52,475,049 from the California State Water Resources Control Board's Clean Water State Revolving Fund for construction of a recycled water distribution system in the southwest quadrant of the City. The interest rate is fixed at 1.0% for the term of the loan. Principal and interest due in semiannual installments will begin once the project is completed and continue for 30 years. Until completion, interest is due semiannually on the amount received by the City through the interest payment date. As of June 30, 2019, the City has received \$33,425,983 in proceeds. Debt service payments will be funded from revenues of the Wastewater Enterprise. Once construction is completed, annual debt service is estimated to be \$2,028,979.

On June 8, 2016, the City entered into a 30-year agreement to borrow \$26,520,000 from the California State Water Resources Control Board for construction of a raw water pipeline to replace the Enterprise Canal as a primary conveyance system for the Northeast Surface Water Treatment Facility. The interest rate is fixed at 1.6% for the term of the loan. Principal and interest due in semiannual installments will begin once the project is completed and continue for 30 years. Until completion, interest is due semiannually on the amount received by the City through the interest payment date. As of June 30, 2019, the City has received \$20,248,879 in proceeds. Debt service payments will be funded from revenues of the Water Enterprise. Even though the project was not fully completed, the City was required to make a principal payment of \$532,160 during the current fiscal year. Once construction is completed, annual debt service is estimated to be \$1,116,533.

On July 19, 2016, the City entered into a 30-year agreement to borrow \$65,875,669 from the California State Water Resources Control Board for construction of a pipeline from Kings River to the Southeast Water Treatment Facility. The interest rate is fixed at 1.6% for the term of the loan. Principal and interest due in semiannual installments will begin once the project is completed and continue for 30 years. Until completion, interest is due semiannually on the amount received by the City through the interest

payment date. As of June 30, 2019, the City has received \$52,621,268 in proceeds. Debt service payments will be funded from revenues of the Water Enterprise. Even though the project was not fully completed, the City was required to make a principal payment of \$1,347,949. Once construction is completed, annual debt service is estimated to be \$2,773,546.

On August 23, 2016, the City entered into a 30-year agreement to borrow \$75,900,000 from the California State Water Resources Control Board for construction of a pipeline from Kings River to the Southeast Water Treatment Facility. The interest rate is fixed at 1.6% for the term of the loan. Principal and interest due in semiannual installments will begin once the project is completed and continue for 30 years. Until completion, interest is due semiannually on the amount received by the City through the interest payment date. As of June 30, 2019, the City has received \$60,485,034 in proceeds. Debt service payments will be funded from revenues of the Water Enterprise. Once construction is completed, annual debt service is estimated to be \$3,195,506.

B. Debt Management Policies

The City Council adopted the Taxpayer Protection Act on December 3, 2009 in order to institute formal debt financial management policies. The Act was amended on February 25, 2010 and revised again on April 6, 2017; with the latest revision updating language and bring the policy into compliance with SB 1029. The Debt Management Policies (“Policies”) establish parameters for when and how the City may enter into debt obligations. The Policies permit sufficient flexibility to allow the City to take advantage of opportunities that may arise. Objectives of the Policy are:

- Minimize debt service and issuance costs;
- Provide a scheduling component (planning);
- Maintain access to cost-efficient borrowing;
- Achieve the highest practical credit rating;
- Full and timely repayment of debt;
- Balance use of pay-as-you-go and debt financing;
- Maintain full and complete financial disclosure and reporting; and
- Ensure compliance with applicable State and Federal laws.

The primary goal of the Policies is to achieve the highest practical credit ratings and strive to elevate and maintain those ratings in order to sustain cost-effective access to capital markets. In order to fulfill this goal and these objectives, certain ratios have been identified to quantify the City’s performance relative to direct debt. These measurements are as follows:

- Net Direct Debt (tax-supported General Fund debt, net of self-supporting and revenue anticipation debt) to Assessed Value shall not exceed 3%;

- Percentage of Principal on Net Direct Debt Retired in ten years shall average 35%; and
- Net Direct Debt as a percentage of General Fund Appropriation shall be less than 10%.

The table on the next page is an update of the table in Section 6 of the Debt Policies. General Fund Paid as a percentage of principal net direct debt retired in ten and fifteen years decreased from FY2018 due to the following activities:

- A Park Impact Fee Nexus Study Update was completed in FY2017 which stated that only 51% of the future debt service on the Impact Fee bonds issued in 2008 and refinanced in 2017 could be funded by impact fee revenues because of the deficiencies prior to the establishment of the fee. So 49% of the 2017 Lease Revenue Bonds used for Park Impact Fee Projects was added to the calculation.

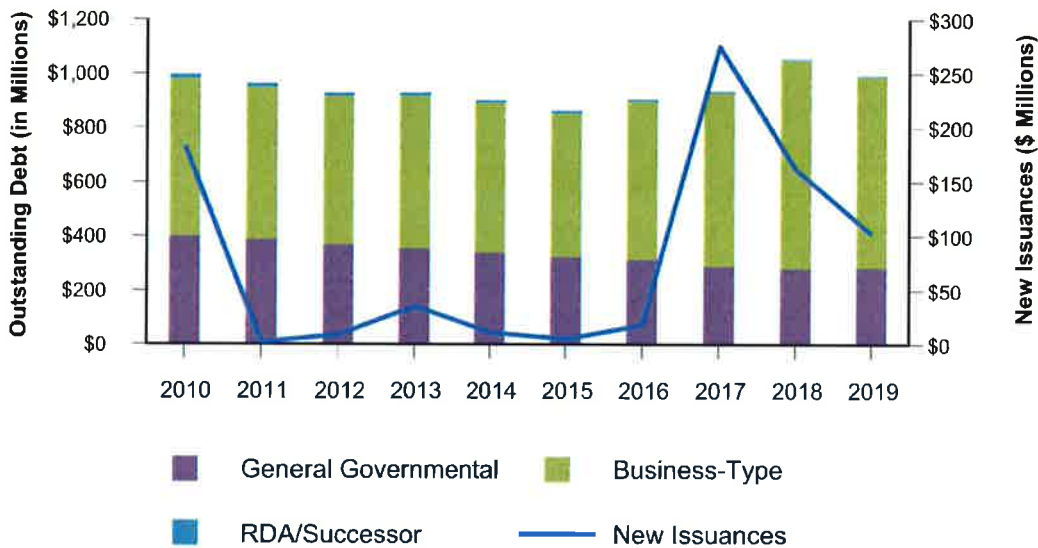
In addition to this table, an additional quantitative goal stated in the Debt Policies is that the average Percentage of principal on Net Direct Debt Retired in 15 years should be at least 40%. During FY 2019, this percentage was 55.0% on GF Backed Principal and 38.1% on GF Paid Principal.

| Key Debt Ratios Description/Trend | City of Fresno FY 2019 Debt Ratios |
|---|--|
| Net Direct Debt to Assessed Property Value % (Favorable Trend=Lower than 3%) | 0.07% |
| % Of Principal Net Direct Debt Retired in Ten Years (Favorable Trend = Greater than 35%) | GF Backed (2018 - 2019) 47.07% GF Paid (2018 - 2019) 32.25% |
| Net Direct Debt Service as % of General Fund Appropriations (Favorable Trend = Less than 10%) | 6.70% |

C. Citywide Debt Service

The graph below illustrates the size of the City’s debt portfolio and the dollar volume of debt issued in each of the last ten years. It should be noted that with the exception of the Utilities Department, the focus has been on paying down debt in the last few years, and not the issuance of new bond debt. Increases in New Issuances between FY 2015 and FY 2018 were due to Water and Sewer Divisions of the Department of Public Utilities borrowing funds from the California State Water Resources Control Board to meet conservation and recycling requirements imposed by the State. The reduction in Business-Type debt in FY 2019 was due to the defeasance of \$132.5 million of Sewer System Revenue Bonds, Series 2008A.

City Debt Portfolio and Debt Issuance History
 FY 2009-10 through FY 2018-19



General Governmental includes debt that is not Business-Type (paid out of the Water, Sewer and Airports enterprise funds), but is paid by either the General Fund or under special circumstances, Special Revenue Funds like the Gas Tax Fund specifically designated for the payment of debt service.

The City of Fresno’s general obligation debt capacity is spelled out in the City charter, Article XII, Section 1213. The capacity is 20% of the assessed valuation of all property within the boundaries of the City of Fresno. The capacity for FY 2019 is calculated as follows:

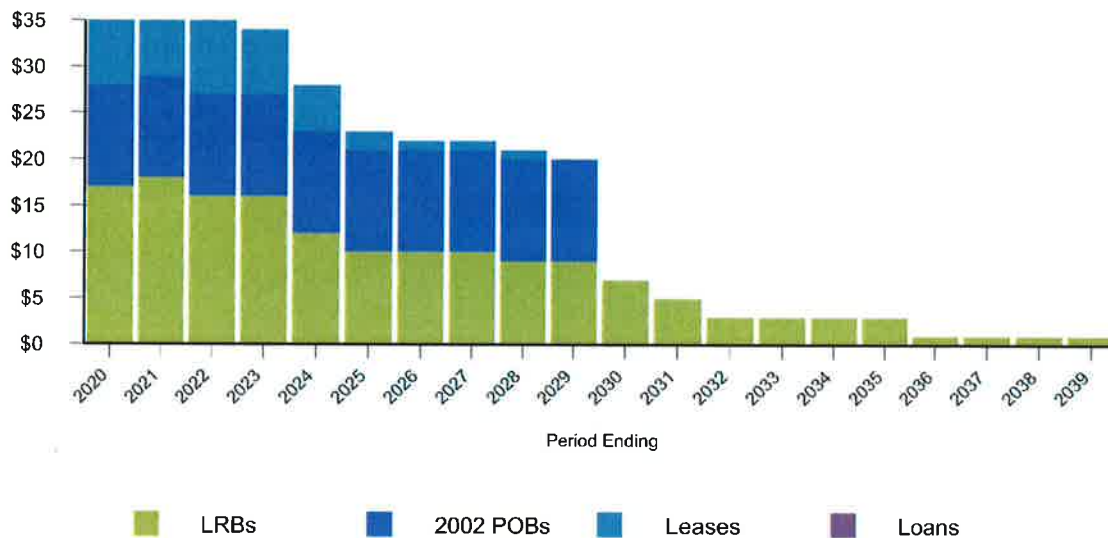
| | |
|-------------------------------------|----------------|
| Assessed valuation as of 06/30/2019 | \$36.6 billion |
| Debt limit | X 20% |
| City’s Debt Limit | \$ 7.3 billion |

The Debt Limit is specifically related to general obligation debt, which is debt that is issued as a result of an election (voter-approved debt). Debt Limit defines voter-approved debt that could legally be outstanding rather than what the City can afford to issue. The City of Fresno has no voter-approved

debt. Additionally, as displayed in the chart above, the City has never had total debt outstanding of more than \$1.1 billion.

As of June 30, 2019, the City had one general obligation bond, several Lease Revenue Bonds (LRBs), capital loans and capital leases outstanding that are paid in whole or part by the General Fund. The chart on the next page shows only General Fund debt service:

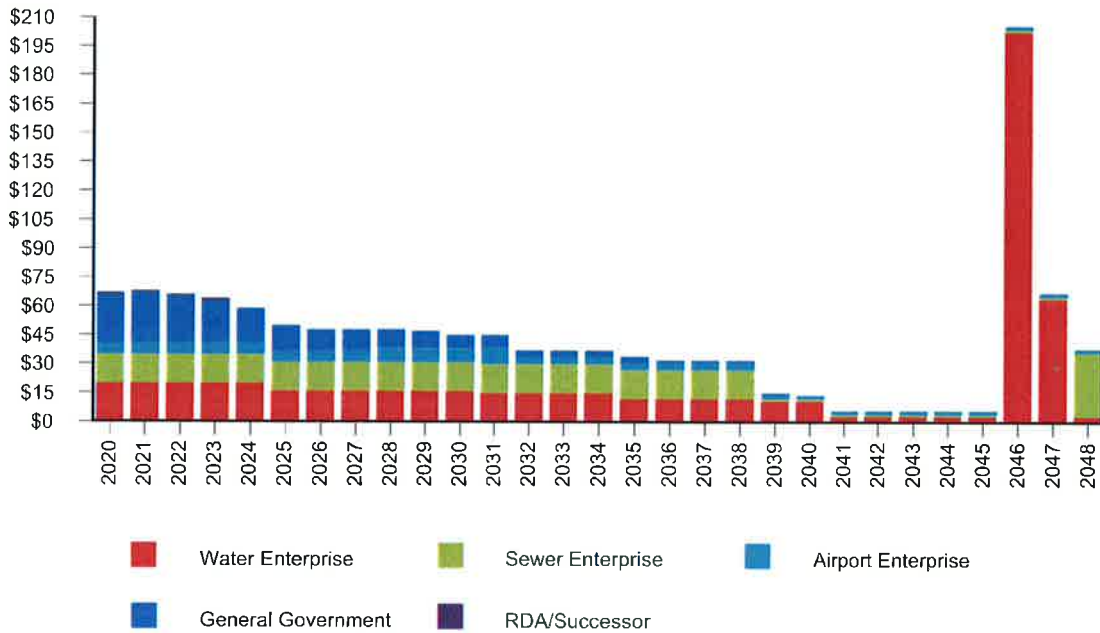
General Fund Debt Service (in Millions)



FY 2019 General Fund Debt Service was reduced through normal debt service payments.

The chart below shows all of the City’s debt and the source of funding that backs it:

Citywide Debt Service (in Millions)



Payments in 2046 through 2048 include new loan principal from the State Water Resources Control Board which have been drawn down in part, but cannot be amortized until after all loan proceeds have been drawn or the project has been deemed complete. In the chart above, they are reflected as due in full at the final maturity date.

D. Rating Agency Overview/Actions

The City’s debt is rated by the three primary rating agencies (Moody’s, Standard & Poor’s, and Fitch). Below is a scale of the ratings by each agency:

| MOODY’S | | FITCH/S&P | |
|------------------|--------------------|-----------------|--------------------|
| Rating | Rating Description | Rating | Rating Description |
| Aaa | Strongest | AAA | Highest |
| Aa1, Aa2, Aa3 | Very Strong | AA+, AA, AA- | Very High |
| A1, A2, A3 | Above Average | A+, A, A- | High |
| Baa1, Baa2, Baa3 | Average | BBB+, BBB, BBB- | Good |
| Ba1, Ba2, Ba3 | Below Average | BB+, BB, BB- | Speculative |
| B1, B2, B3 | Weak | B+, B, B- | Highly Speculative |
| Caa1, Caa2, Caa3 | Very Weak | CCC+, CCC, CCC- | High Default Risk |

The ratings for the City's General obligation, lease revenue, enterprise debt and the Agency's tax allocation bonds are summarized in the Appendix. A brief overview of the City's current general ratings (equivalent to a general obligation bond) is provided in the section below.

| YEAR | MOODY'S | | S&P | | FITCH | |
|------|---------|---------|--------|---------|--------|---------|
| | Rating | Outlook | Rating | Outlook | Rating | Outlook |
| 2019 | A3 | Stable | A+ | Stable | A | Stable |
| 2018 | A3 | Stable | A+ | Stable | A | Stable |
| 2017 | A3 | Stable | A+ ↑ | Stable | A | Stable |
| 2016 | A3 | Stable | BBB- | Stable | A ↑ | Stable |
| 2015 | A3 ↑ | Stable | BBB- | Stable | BBB+ | Neg |
| 2014 | Baa1 ↓ | Stable | BBB- | Stable | BBB+ | Neg |
| 2013 | A3 | Neg | BBB- ↓ | Stable | BBB+ ↓ | Neg |
| 2012 | A3 ↓ | Neg | BBB ↓ | Neg | A- ↓ | Stable |

Arrows indicate an increase (↑) or decrease (↓) from the prior rating.

E. Debt Financing Team

The City of Fresno uses several individuals/organizations with expertise in their specific function to manage and administer the debt. Day-to-day administration is completed in-house by City staff, including the Controller, Assistant Controller, a Principal Accountant in charge of debt administration and an Accountant/Auditor. The Debt Administration section of the Finance Department manages day-to-day activities; including addressing monthly, semi-annual and annual state and federal reporting requirements, reconciling trustee statements, monitoring arbitrage calculations and continuing disclosure, preparing debt sections of the Comprehensive Annual Financial Report, and budgeting for debt.

The City contracts with various banks to provide trustee and paying agent services. Selection of the trustee is done through a Request for Qualifications at the time new debt is being considered. Currently, the City uses Bank of New York Mellon Corporate Trust and Wells Fargo Corporate Trust Services. Annual reporting requirements such as arbitrage calculations and continuing disclosure requirements are completed by Willdan Financial Services in coordination with the Principal Accountant in charge of debt administration. The City has chosen to use outside entities for arbitrage calculation and continuing disclosure reporting in order to have an experienced third party ensure accuracy and integrity of the reports and calculations.

The issuance of new debt can be very complex with many different areas of expertise needed. So, the City of Fresno has chosen to use financing teams consisting of in-house City staff with expertise relating to the projects which are to be funded, along with Finance Department and City Attorney's Office staff with expertise in their respective fields.

In addition to internal staff, the City engages KNN Public Finance as its expert financial adviser, Orrick Herrington & Sutcliff as its bond counsel, and Schiff Hardin as its disclosure counsel. Underwriters are

selected by putting together an underwriting pool through a Request for Qualifications process conducted by the financial adviser. A firm or the firms from that pool which are selected are determined by City staff (with input from the financial adviser) to have the best expertise in the projects that will be financed.

F. Trustee Activity

Trustees provide banking services for debt and act as a conduit between the City of Fresno and their client, the bondholders and/or investors. Debt documentation typically requires that a trustee be selected to hold funds on behalf of the investor in order to ensure that the debt is used for its intended purpose. Although selected and paid for by the City of Fresno, the trustee works for the investors.

Below is a list of each trustee and the debt instruments for which they provide services:

| Trustee | Debt Instrument | Fees Paid to Trustee in FY2019 | Interest/ Dividends Earned in FY2019 |
|---|---|--------------------------------|--------------------------------------|
| Bank of New York Mellon Corporate Trust | Fresno JPFA 1998 Lease Revenue Bonds | \$36,972 | \$1,966,354 |
| | 1999 Community Facilities District #4 | | |
| | Fresno JPFA 2001 TARB | | |
| | 2001 Community Facilities District #5 | | |
| | 2002 Pension Obligation Bonds | | |
| | Fresno Redevelopment Agency 2003 TARB | | |
| | 2003 Community Facilities District #7 | | |
| | Fresno JPFA 2004 Lease Revenue Bonds | | |
| | Fresno JPFA 2008 Lease Revenue Bonds | | |
| | Fresno JPFA 2017 Lease Revenue Bonds | | |
| | All City of Fresno Airport Bonds | | |
| All City of Fresno Sewer Bonds | | | |
| All City of Fresno Water Bonds | | | |
| Wells Fargo Corporate Trust | Fresno JPFA 2001 Lease Revenue Bonds | \$2,400 | \$22,631 |
| | Fresno JPFA 2006 Lease Revenue Bonds | | |
| | State Water Resources Control Board Loans | | |
| Zions Bank | Fresno JPFA 2009 Lease Revenue Bonds | \$0 | \$0 |

JPFA = Fresno Joint Powers Financing Authority; TARB = Tax Allocation Revenue Bonds

G. Investment Activity

While bond funds are held in Trust, the City is encouraged to invest them in a manner that is consistent with the Permitted Investments of the bond transaction and yields a favorable rate of return to maximize proceeds available to the City. Prior to the economic downturn in 2008, Debt Management staff was able to invest in Guaranteed Investment Contracts with various banks that maximized returns at the arbitrage yield on the bonds.

With the downturn in the economy, all of those Guaranteed Investment Contracts were terminated by the banks, with the exception of one for the Sewer System Revenue Bonds, Series 2008A. All proceeds

from terminated Guaranteed Investment Contracts were invested in money market funds in anticipation of better investments once the economy rebounded.

In February 2014, staff determined that rates were favorable to lock in for periods of one to three years under a ladder approach to investing, allowing for reinvestment in the short-term until rates begin to improve. Staff believes that investing in the long-term at this time would commit the City into low earnings instead of taking advantage of opportunities as rates begin to rise. In November 2014, staff expanded this approach to all previously liquid reserve funds.

During fiscal year 2019, interest was earned from the following instruments:

- Guaranteed Investment Contracts - \$788,009
- Federal Agency Bonds - \$805,143
- Money Market Funds - \$381,328

Earnings on the Guaranteed Investment Contracts decreased as a result of reducing the 2008 Sewer Revenue Bond Debt Service Reserve Fund in order to defease \$132.5 million in bonds. The result of reducing the outstanding balance of these bonds also resulted in a much lower Debt Service Reserve Requirement, thereby allowing for the use of surplus in the Debt Service Reserve Fund to call additional bonds.

All earnings were used to pay a portion of the debt service on City bonds.

Debt Detail Report

Below is a schedule of debt that had activity in Fiscal Year 2019:

| Debt Issue | Series | Purpose | Rate Range | Issue Date | Maturity Date | Note | Annual Principal | Outstanding Principal | Issuance Disc/(Prem) Accreted Int | Net Principal Due | Payments to Maturity | FY2019 Debt Service Payment |
|---|---|--|----------------|------------|---------------|---|-----------------------------|-----------------------|-----------------------------------|-----------------------|----------------------|-----------------------------|
| Governmental | | | | | | | | | | | | |
| Revenue and Other Bonds | | | | | | | | | | | | |
| Taxable Pension Obligation Bonds 2002 | \$205,335,000 taxable | Refund 2000 Taxable Pension Obligation Bonds | 6.48% to 6.55% | 02/21/2002 | 06/01/2029 | Repayment of bonds not limited to any special source of City funds. Principal due annually, interest due semiannually. City uses funds throughout the year based on full-time employees assigned to funds. For the General Fund, the City uses dedicated Property Tax Override (PTO) revenue first, and then other General Fund revenues to make its portion of the payment. Other citywide revenues make up the difference between the PTO revenue and the General Fund portion. During 2019, \$13,354,304 of PTO revenue was used. In addition to PTO revenue, \$0 of General Fund and \$2,538,698 of Enterprise Fund/Internal Service Fund revenues were used to make the 2019 debt service payment of \$16,191,003. | \$8,605,000 to \$15,195,000 | \$ 116,160,000 | \$ — | \$ 116,160,000 | \$ 161,898,498 | \$ 16,191,003 |
| Fresno Joint Powers Financing Authority Lease Refunding Bonds 2017 A,B,C No Neighborhood Left Behind (NNLB) | A = \$11,010,000 tax-exempt; B = \$1,940,000 taxable | Refinance No Neighborhood Left Behind Projects | 2.64% to 5.00% | 05/10/2017 | 04/01/2023 | Repayment payable solely by revenues pledged under Master Facilities Sublease agreement, primarily Base Rental Payments. Principal due annually, interest due semiannually. Lease revenue of \$2,969,758 was equal to debt service in 2019. | \$2,465,000 to \$2,630,000 | 11,296,092 | (716,092) | 10,580,000 | 11,853,450 | 2,969,758 |
| Fresno Joint Powers Financing Authority Lease Refunding Bonds (Chiller) 2017 A, City Hall Chiller | A = \$2,710,000 tax-exempt | Refinance City Hall Chiller | 5.00% | 05/10/2017 | 04/01/2024 | Repayment payable solely by revenues pledged under Master Facilities Sublease agreement, primarily Base Rental Payments. Principal due annually, interest due semiannually. Lease revenue of \$135,500 was equal to debt service in 2019. | \$610,000 to \$2,100,000 | 3,054,097 | (344,097) | 2,710,000 | 3,357,000 | 135,500 |
| Fresno Joint Powers Financing Authority Lease Refunding Bonds 2017 A,B,C No Neighborhood Left Behind (NNLB) Bee Bldg & Granite Park | A = \$10,125,000 tax-exempt; B = \$21,980,000 taxable | Refinance City Hall, Parking Garage #7, Fresno Bee Building and Granite Park | 2.64% to 5.00% | 05/10/2017 | 04/01/2031 | Repayment payable solely by revenues pledged under Master Facilities Sublease agreement, primarily Base Rental Payments. Principal due annually, interest due semiannually. Lease revenue of \$4,192,148 was equal to debt service in 2019. | \$1,645,000 to \$3,565,000 | 26,215,178 | (230,178) | 25,985,000 | 32,259,435 | 4,192,148 |
| Fresno Joint Powers Financing Authority Lease Refunding Bonds 2017 A, Various Capital Projects | A = \$27,435,000 tax-exempt | Refinance Various Capital Improvement Projects | 5.00% | 05/10/2017 | 04/01/2035 | Repayment payable solely by revenues pledged under Master Facilities Sublease agreement, primarily Base Rental Payments. Principal due annually, interest due semiannually. Lease revenue of \$1,146,750 was equal to debt service in 2019. | \$40,000 to \$1,785,000 | 13,480,270 | (1,580,270) | 11,910,000 | 18,349,250 | 1,146,750 |
| Fresno Joint Powers Financing Authority Lease Refunding Bonds 2004 A,B,C, Various Capital Projects | A = \$15,810,000 tax-exempt; B = \$8,100,000 tax-exempt; C = \$28,670,000 taxable | Calcut Project, Fire Department Projects, Downtown Parking Projects, Santa Fe Depot Project, Rosing Business Park Project Area, other capital projects | 5.900% | 04/28/2004 | 10/01/2034 | Repayment payable solely by revenues pledged in trust agreement, primarily Base Rental Payments. Principal due annually, interest due semiannually. Lease revenue of \$1,541,660 was equal to debt service in 2019. | \$635,000 to \$1,400,000 | 12,358,945 | (13,345) | 12,345,000 | 16,742,714 | 1,541,660 |
| Fresno Joint Powers Financing Authority Lease Refunding Bonds (Parks Projects) 2017 A, Parks Impact Fee Projects | A = \$22,965,000 tax-exempt | Refinance Improvements to Various Park Facilities | 5.000% | 05/10/2017 | 04/01/2038 | Repayment payable solely by revenues pledged under Master Facilities Sublease agreement, primarily Base Rental Payments. Principal due annually, interest due semiannually. Lease revenue of \$1,821,313 was equal to debt service in 2019. | \$730,000 to \$1,755,000 | 25,097,930 | (2,827,930) | 22,270,000 | 34,594,438 | 1,821,313 |
| Fresno Joint Powers Financing Authority Lease Refunding Bonds 2017 A, Police and Fire/Public Safety | A = \$32,065,000 tax-exempt | Refinance Public Safety Capital Improvement Projects (Police & Fire) | 5.000% | 05/10/2017 | 04/01/2039 | Repayment payable solely by revenues pledged under Master Facilities Sublease agreement, primarily Base Rental Payments. Principal due annually, interest due semiannually. Lease revenue of \$2,561,750 was equal to debt service in 2019. | \$1,065,000 to \$2,300,000 | 34,679,189 | (3,629,189) | 31,050,000 | 48,420,750 | 2,561,750 |
| Revenue and Other Bonds Total | | | | | | | \$ 242,351,101 | \$ (9,341,101) | \$ 233,010,000 | \$ 327,476,535 | \$ 30,559,682 | |

| Debt Issue | Series | Purpose | Rate Range | Issue Date | Maturity Date | Note | Annual Principal | Outstanding Principal | Issuance Disc/(Prem) Accreted Int | Net Principal Due | Payments to Maturity | FY2019 Debt Service Payment |
|---|--------------------|--|------------------|------------|---------------|--|------------------------|-----------------------|-----------------------------------|-----------------------|-----------------------|-----------------------------|
| Notes Payable | | | | | | | | | | | | |
| HUD: Fresno/Madera Area Agency on Aging (FMAAA) | \$1,500,000 Loaned | Section 108 Notes to be used to acquire and improve FMAAA facilities | N/A | 06/14/2000 | 08/01/2019 | Annual principal payments; semiannual interest payments. Note balance was prepaid on 04/18/2019. | N/A | — | — | — | — | 263,555 |
| HUD: Neighborhood Streets/Parks | \$1,500,000 Loaned | Section 108 Note to be used for improvements to various neighborhood streets & parks | 5.930% to 6.120% | 08/08/2002 | 08/01/2022 | Annual principal payments; semiannual interest payments. | \$107,000 to \$130,000 | 472,000 | — | 472,000 | 531,640 | 131,411 |
| Roeding Business Park | \$2,441,000 Loaned | Loaned from the California Infrastructure and Economic Development Bank to be used to complete the Roeding Business Park | 3.530% | 03/18/2004 | 08/01/2033 | Secured by Facility Lease on City Hall Annex. Annual principal payments; semiannual interest payments. | \$80,732 to \$131,212 | 1,561,235 | — | 1,561,235 | 2,010,100 | 134,467 |
| Notes Payable Total | | | | | | | | \$ 2,033,235 | \$ — | \$ 2,033,235 | \$ 2,541,740 | \$ 529,433 |
| Governmental Total | | | | | | | | \$ 244,384,336 | \$ (9,341,101) | \$ 235,043,235 | \$ 330,018,275 | \$ 31,089,315 |

| Business-type | | | | | | | | | | | | |
|--|-------------------------------|--|-----------------|------------|------------|---|----------------------------|---------------|--------------------|---------------|----------------|--------------|
| Water System Revenue Refunding Bonds 2003 A | A = \$16,155,000 tax-exempt | Refund 1993 Water Bonds & finance improvements to the Water System | 5.250% | 04/23/2003 | 06/01/2020 | Repayment of bonds solely from revenues derived from the operation of the City Water System, except connection fees and charges, refundable deposits and capital contributions. Pledged senior to the pledges securing the 2010 Bonds and State loans for Water. Principal paid annually, interest semiannually. | \$1,310,000 | \$ 1,316,909 | (6,909) | \$ 1,310,000 | \$ 1,378,775 | \$ 1,379,138 |
| Water System Revenue Bonds (Non-Taxable) 2010 A-1, Water | A-1 = \$66,810,000 tax-exempt | Current Refund 1998 Water Bonds & improvements to the Water System | 4.00% to 5.00% | 02/03/2010 | 06/01/2024 | Repayment of bonds solely from revenues derived from the operation of the City Water System, except connection fees and charges, refundable deposits and capital contributions. Pledged subordinate to the pledge securing the 2003 Bonds and in parity with the pledges securing State loans for Water. Principal payable annually, interest semiannually. | \$4,710,000 to \$7,455,000 | 33,376,827 | (1,031,827) | 32,345,000 | 37,848,700 | 6,406,325 |
| Water System Revenue Bonds (Taxable Build America Bonds) 2010 A-2, Water | A-2 = \$91,340,000 taxable | Improvements to the Water System | 6.50% to 6.75% | 02/03/2010 | 06/01/2040 | Repayment of bonds solely from revenues derived from the operation of the City Water System, except connection fees and charges, refundable deposits and capital contributions. Pledged subordinate to the pledge securing the 2003 Bonds and in parity with the pledges securing State loans for Water. Principal payable annually, interest semiannually. During Fiscal Year 2019, a federal Build America Bonds subsidy of \$1,000,865 was received and \$1,000,865 was accrued. | \$4,090,000 to \$7,715,000 | \$ 90,064,915 | \$ 1,275,085 | \$ 91,340,000 | \$ 179,504,550 | \$ 6,097,263 |
| Sewer System Revenue Bonds 1993 A | A = \$196,280,000 tax-exempt | Rehabilitation and expansion of the City's Wastewater Treatment Facility | 4.50% to 5.25% | 10/06/1993 | 09/01/2023 | Repayment of bonds solely from revenues derived from the operation of the City Sewer System, except connection fees and charges, refundable deposits and capital contributions. Pledged senior to the pledges of the 2008 Sewer Bonds and State loans for Sewer. Principal payable annually, interest semiannually. | \$45,000 to \$6,050,000 | 6,977,342 | 2,658 | 6,980,000 | 7,551,631 | 10,684,425 |
| Sewer System Revenue Bonds 2008 A, Sewer | A = \$159,845,000 tax-exempt | Refund 1995 & 2000 Sewer Bonds; Improvements to the City's Wastewater Reclamation Facility | 4.625% to 5.00% | 07/24/2008 | 09/01/2037 | Repayment of bonds solely from revenues derived from the operation of the City Sewer System, except connection fees and charges, refundable deposits and capital contributions. Pledged subordinate to the pledge securing the 1993 Bonds and in parity with the pledges of State loans for Sewer. Principal payable annually, interest semiannually. Redeemed \$132,540,000 on 09/01/2018. | \$970,000 to \$2,205,000 | 27,965,228 | (650,228) | 27,305,000 | 42,138,944 | 137,181,578 |

| Debt Issue | Series | Purpose | Rate Range | Issue Date | Maturity Date | Note | Annual Principal | Outstanding Principal | Issuance Disc/(Prem) Accreted Int | Net Principal Due | Payments to Maturity | FY2019 Debt Service Payment |
|---|-----------------------------|---|------------|------------|---------------|---|----------------------------|-----------------------|-----------------------------------|-------------------|----------------------|-----------------------------|
| Fresno Joint Powers Financing Authority: Lease Revenue Refunding Bonds 2017 A, Convention Center | A = \$4,260,000 tax-exempt | Refinance Convention Center Improvement Projects (Phase I) | 5.000% | 05/10/2017 | 04/01/2027 | Repayment payable solely by revenues pledged under Master Facilities Sublease agreement, primarily Base Rental Payments. Principal due annually, interest due semiannually. During 2019, the City chose to make these lease payments from the General Fund in the amount of \$566,750, which was equal to debt service in 2019. While the City has the right to use any unencumbered funding source it wishes to use for future lease payments, it is anticipated that General Fund revenues will be used to make these future payments, which the Authority will then use to make the debt service payment. | \$385,000 to \$540,000 | 4,115,212 | (445,212) | 3,670,000 | 4,542,000 | 566,750 |
| Fresno Joint Powers Financing Authority: Lease Revenue Bonds (Conv. Ctr.) 2008 F, Convention Center | F = \$21,410,000 taxable | Refund a portion of 2006 Convention Center Bonds & finance various Convention Center improvements | 6.700% | 08/14/2008 | 04/01/2023 | Repayment payable solely by revenues pledged under Master Facilities Sublease agreement, primarily Base Rental Payments. Principal due annually, interest due semiannually. During 2019, the City chose to make these lease payments from the General Fund in the amount of \$2,411,760, which was equal to the debt service payment. While the City has the right to use any unencumbered funding source it wishes to use for future lease payments, it is anticipated that General Fund revenues will be used to make future lease payments, which the Authority will then use to make the debt service payment. | \$1,370,000 to \$2,175,000 | 7,475,152 | 14,848 | 7,490,000 | 8,694,995 | 2,411,760 |
| Fresno Joint Powers Financing Authority: Lease Revenue Refunding Bonds 2017 A, Exhibit Hall Expansion Project Refunding | A = \$11,665,000 tax-exempt | Refinance Exhibit Hall Expansion Project | 5.000% | 05/10/2017 | 04/01/2029 | Repayment payable solely by revenues pledged under Master Facilities Sublease agreement, primarily Base Rental Payments. Principal due annually, interest due semiannually. Lease revenue of \$1,413,250, which was equal to debt service in 2019. While the City has the right to use any unencumbered funding source it wishes to use for future lease payments, it is anticipated that General Fund revenues will be used to make these future payments, which the Authority will then use to make the debt service payment. | \$985,000 to \$1,330,000 | 12,261,460 | (1,426,460) | 10,835,000 | 14,027,500 | 1,413,250 |
| Fresno Joint Powers Financing Authority: Lease Revenue Bonds 1998, Exhibit Hall Expansion Project | \$32,609,535 tax-exempt | Construction of an exhibit hall. | N/A | 09/01/1998 | 09/01/2028 | Current Interest Serial Bonds (\$25,995,000) and Capital Appreciation Serial Bonds (\$7,214,535). Repayment payable solely by revenues pledged in trust agreement, primarily Base Rental Payments pursuant to a Facilities Lease. Principal due annually, interest due semiannually. During 2019, the City chose to make these lease payments from the General Fund in the amount of \$ 750,000, which was equal to the debt service payment. All remaining bonds are Capital Appreciation Bonds, so interest is accreted. While the City has the right to use any unencumbered funding source it wishes to use for future lease payments, it is anticipated that General Fund revenues will be used to make future lease payments, which the Authority will then use to make the debt service payment. | \$162,405 to \$261,523 | \$ 5,786,037 | \$ (3,709,159) | \$ 2,076,878 | \$ 7,500,000 | \$ 750,000 |
| Fresno Joint Powers Financing Authority: Lease Revenue Refunding Bonds 2017 A, Stadium Project | A = \$13,510,000 tax-exempt | Refinance Multipurpose Stadium Project | 5.000% | 05/10/2017 | 04/01/2031 | Repayment payable solely by revenues pledged under Master Facilities Sublease agreement, primarily Base Rental Payments. Principal due annually, interest due semiannually. During 2019, the City chose to make these lease payments from the General Fund in the amount of \$1,378,000, which was equal to the debt service payment. While the City has the right to use any unencumbered funding source it wishes to use for future lease payments, it is anticipated that General Fund revenues will be used to make future lease payments, which the Authority will then use to make the debt service payment. | \$770,000 to \$1,300,000 | 13,789,009 | (1,664,009) | 12,125,000 | 16,408,500 | 1,378,000 |

| Debt Issue | Series | Purpose | Rate Range | Issue Date | Maturity Date | Note | Annual Principal | Outstanding Principal | Issuance Disc/(Prem) Accreted Int | Net Principal Due | Payments to Maturity | FY2019 Debt Service Payment |
|---|---|--|-----------------|------------|---------------|---|----------------------------|-----------------------|-----------------------------------|-----------------------|-----------------------|-----------------------------|
| Fresno Joint Powers Financing Authority Lease Revenue Bonds 2007 A & B, Stadium Project | A = \$23,615,000 tax-exempt, B = \$22,235,000 taxable | Acquire and construct a multipurpose outdoor stadium | 6.93% to 7.03% | 06/12/2001 | 06/01/2031 | Repayment payable solely by revenues pledged in trust agreement, primarily Base Rental Payments pursuant to a Facilities Lease. Principal due annually, interest due semiannually. During 2019, the City chose to make these lease payments from the General Fund in the amount of \$1,817,468, which was equal to the debt service payment. While the City has the right to use any unencumbered funding source it wishes to use for future lease payments, it is anticipated that General Fund revenues will be used to make future lease payments, which the Authority will then use to make the debt service payment. | \$605,000 to \$1,700,000 | 14,437,767 | (17,767) | 14,420,000 | 21,808,769 | 1,817,468 |
| Fresno Joint Powers Financing Authority Lease Revenue Refunding Bonds (Riverside Golf Course) 2017 A, Riverside Golf Course | A = \$1,615,000 tax-exempt | Refinance improvements to Riverside Golf Course | 5.000% | 05/10/2017 | 04/01/2038 | Repayment payable solely by revenues pledged under Master Facilities Sublease agreement, primarily Base Rental Payments. Principal due annually, interest due semiannually. During 2019, the City chose to make these lease payments from the General Fund in the amount of \$129,188, which was equal to the debt service payment. While the City has the right to use any unencumbered funding source it wishes to use for future lease payments, it is anticipated that General Fund revenues will be used to make future lease payments, which the Authority will then use to make the debt service payment. | \$55,000 to \$125,000 | 1,763,872 | (198,872) | 1,565,000 | 2,428,313 | 129,188 |
| Airport Revenue Bonds 2019, Airport Parking | \$35,000,000 taxable | Construction of a parking garage | 3.45% | 05/03/2019 | 07/01/2048 | Bonds privately placed with the California Infrastructure and Development Bank (I-Bank) for interest plus 0.30% charged by the I-Bank as a fee. Repayment of bonds solely from operation of the City Airport System. Principal due annually, interest due semiannually. No payments were made in Fiscal Year 2019. | \$756,097 to \$1,801,839 | \$ 35,000,000 | \$ — | \$ 35,000,000 | \$ 56,876,870 | \$ — |
| Airport Revenue Refunding Bonds 2013, Concourse Expansion | A = \$10,810,000 Non-AMT, B = \$22,820,000 AMT (Subject to Alternative Minimum Tax) | Refund 2000 Airport Revenue Bonds | 4.00% to 5.125% | 08/06/2013 | 07/01/2030 | Repayment of bonds solely from operation of the City Airport System. Bond indenture requires a minimum \$1,600,000 of PFC Contribution toward annual debt service from Passenger Facility Charges (PFC). During Fiscal Year 2019, \$1,600,000 of PFC and \$1,171,844 of eligible Airports operation revenues were used to make the debt service payment. | \$1,535,000 to \$5,335,000 | \$ 26,988,917 | \$ (323,917) | \$ 26,645,000 | \$ 35,796,105 | \$ 2,771,844 |
| Airport Revenue Bonds 2007, Consolidated Rental Car Facility | \$22,000,000 taxable | Construction of a consolidated rental car facility and related improvements | 5.833% | 06/14/2007 | 07/01/2037 | Repayment of bonds solely from operation of the City Airport System. While not required under the Bond Indenture, Airports uses Customer Facility Charge (CFC) revenues first to meet the debt payment, and then uses other permitted revenues to cover any difference between CFC's and the debt payment. Principal due annually, interest due semiannually. During Fiscal Year 2019 \$ 1,501,742 of CFC revenues was used to fully cover the debt service payment. | \$315,000 to \$2,265,000 | 21,070,000 | — | 21,070,000 | 36,282,174 | 1,501,742 |
| Revenue and Other Bonds Total | | | | | | | | | | | | |
| | | | | | | | | \$ 302,368,647 | \$ (8,191,769) | \$ 294,176,878 | \$ 471,786,826 | \$ 174,488,731 |
| Notes Payable | | | | | | | | | | | | |
| Water: Safe-Drinking Water Program | \$51,405,432 Loaned | Contract between the State Water Resources Control Board and the City for installation of water meters throughout the City of Fresno | 0.000% | 04/10/2012 | 10/01/2022 | No interest loan. Repayment of the loan is funded from revenues of the Water Fund. Pledged subordinate to the pledge securing the Water 2003 Bonds and in parity with the pledges securing the 2010 Bonds and other State loans for Water. Principal due in semiannual installments of \$1,285,136. | \$2,570,272 | \$ 38,554,074 | — | \$ 38,554,074 | \$ 38,554,074 | \$ 2,570,272 |
| Water: Safe Drinking Water Program | \$1,946,866 Loaned | Contract between the State Water Resources Control Board and the City to provide the City's drinking water supplies from possible contaminating activities (FCA's) | 2.292% | 07/01/2009 | 07/01/2031 | Repayment of loan is funded from revenues of the Water Fund. Pledged subordinate to the pledge securing the 2003 Water Bonds and in parity with the pledges securing the 2010 Bonds and other State loans for Water. Principal and interest due in semiannual installments of \$81,014. | \$81,437 to \$118,501 | 1,319,794 | — | 1,319,794 | 1,525,547 | 121,989 |

| Debt Issue | Series | Purpose | Rate Range | Issue Date | Maturity Date | Note | Annual Principal | Outstanding Principal | Issuance Disc/(Prem) Accreted Int | Net Principal Due | Payments to Maturity | FY2019 Debt Service Payment |
|---|----------------------|---|------------|------------|---------------|--|---|-----------------------|-----------------------------------|-------------------|----------------------|-----------------------------|
| Water: Safe Drinking Water Program | \$1,245,485 Loaned | Contract between the State Water Resources Control Board and the City for improvements on the Enterprise and Jefferson Canals | 2.292% | 07/01/2009 | 01/01/2032 | Repayment of loan is funded from revenues of the Water Fund. Pledged subordinate to the pledge securing the 2003 Water Bonds and in parity with the pledges securing the 2010 Bonds and other State loans for Water. Principal and interest due in semiannual installments of \$38,993. | \$38,551 to \$75,798 | 843,438 | — | 843,438 | 974,830 | 77,986 |
| Water: Drinking Water Revolving Fund Project 1010007-028C | \$26,520,000 Loaned | Contract between the State Water Resources Control Board and the City for construction of the Frant-Kem Canal Raw Water Pipeline | 1.600% | 04/05/2016 | 07/01/2048 | Repayment of loan is funded from the revenues of the Water Fund. Pledged subordinate to the pledge securing the 2003 Water Bonds and in parity with the pledges securing the 2010 Bonds and other State loans for Water. Principal and interest due in semiannual installments of \$852,443. Project is not yet complete. Debt service payments will adjust until Project is complete. | \$539,123 to \$842,322 | 19,716,719 | — | 19,716,719 | 24,720,847 | 851,054 |
| Water: Drinking Water State Revolving Fund Project 1010007-028C | \$195,489,000 Loaned | Contract between the State Water Resources Control Board and the City for construction of a Southeast Surface Water Treatment Facility | 1.663% | 07/15/2015 | 01/01/2049 | Repayment of loan is funded from the revenues of the Water Fund. Pledged subordinate to the pledge securing the 2003 Water Bonds and in parity with the pledges securing the 2010 Bonds and other State loans for Water. Principal and interest due in semiannual installments to begin once project is completed and continue for 30 years. Until completion, interest is due semiannually on the amount drawn down through the interest payment date. \$3 million of the loan was forgiven by the State Water Resources Control Board. | No amortization schedule available until project is complete. | 166,707,976 | — | 166,707,976 | 166,707,976 | 4,286,522 |
| Water: Drinking Water State Revolving Fund Project 1010007-030C | \$75,900,000 Loaned | Contract between the State Water Resources Control Board and the City for construction of a raw water pipeline to replace the Enterprise Canal for the Northeast Surface Water Treatment Facility | 1.600% | 08/23/2016 | 01/01/2049 | Repayment of loan is funded from the revenues of the Water Fund. Pledged subordinate to the pledge securing the 2003 Water Bonds and in parity with the pledges securing the 2010 Bonds and other State loans for Water. Principal and interest due in semiannual installments to begin once project is completed and continue for 30 years. Until completion, interest is due semiannually on the amount drawn down through the interest payment date. | No amortization schedule available until Project is complete. | \$ 60,485,034 | — | \$ 60,485,034 | \$ 60,485,034 | \$ 835,495 |
| Water: Drinking Water State Revolving Fund Project 1010007-031C | \$65,875,669 Loaned | Contract between the State Water Resources Control Board and the City for construction of a Kings River Pipeline | 1.600% | 04/05/2016 | 07/01/2048 | Repayment of loan is funded from the revenues of the Water Fund. Pledged subordinate to the pledge securing the 2003 Water Bonds and in parity with the pledges securing the 2010 Bonds and other State loans for Water. Principal and interest due in semiannual installments of \$2,216,778. Project is not yet complete. Debt service payments will adjust until Project is complete. | \$1,401,990 to \$2,190,457 | 51,273,319 | — | 51,273,319 | 64,286,562 | 2,140,034 |
| Sewer: Clean Water State Revolving Fund Project | \$33,212,580 Loaned | Contract between the State Water Resources Control Board and the City for construction of a tertiary treatment facility | 1.000% | 10/17/2015 | 07/12/2046 | Repayment of loan solely from all revenues derived from the operation of the City Sewer System, except connection fees and charges. Pledged subordinate to the pledge securing the 1993 Bonds and in parity with the pledge securing the 2008 Bonds and State loans for Sewer. Principal and interest due in semiannual installments of \$1,286,353. | \$973,492 to \$1,262,163 | 31,286,070 | — | 31,286,070 | 36,026,525 | 1,286,353 |
| Sewer: Clean Water State Revolving Fund Project No. 8061-110 | \$52,475,049 Loaned | Contract between the State Water Resources Control Board and the City for construction of a wastewater distribution system in the southwest quadrant of the City | 1.000% | 07/01/2016 | 05/30/2047 | Repayment of loan solely from all revenues derived from the operation of the City Sewer System, except connection fees and charges. Pledged subordinate to the pledge securing the 1993 Bonds, and in parity with the pledge securing the 2008 Bonds and State loans for Sewer. Principal and interest due in semiannual installments to begin once project is completed and continue for 30 years. Until completion, interest is due semiannually on the amount drawn down through the interest payment date. | No amortization schedule available until project is complete. | 33,425,983 | — | 33,425,983 | 33,425,983 | — |

| Debt Issue | Series | Purpose | Rate Range | Issue Date | Maturity Date | Note | Annual Principal | Outstanding Principal | Issuance Disc(Prem) Accreted Int | Net Principal Due | Payments to Maturity | FY2019 Debt Service Payment |
|---|------------------|---|------------|------------|---------------|--|------------------|-----------------------|----------------------------------|-------------------|----------------------|-----------------------------|
| Convention Center: Management Agreement | \$761,000 Loaned | Management Agreement between the City of Fresno and SMG to settle a conflict with employee benefits costs incurred by SMG | N/A | 01/01/2009 | 12/31/2018 | Principal and interest due in monthly installments of \$4,167 through 12/31/2018 with an additional payment of \$250,000 to be paid no later than 12/31/2018. Repayment of the note is funded from revenues of the Convention Center operating fund. | — | — | — | — | — | 275,000 |
| Notes Payable Total | | | | | | | | \$ 403,612,407 | \$ — | \$ 403,612,407 | \$ 426,707,378 | \$ 12,444,705 |
| Business-Type Total | | | | | | | | \$ 705,981,054 | \$ (8,191,769) | \$ 697,789,285 | \$ 898,494,204 | \$ 186,933,436 |

| Fiduciary | | | | | | | | | | | | |
|--|------------------------|--|------------------|------------|------------|---|------------------------|----------------|-----------------|----------------|------------------|----------------|
| Tax Allocation Refunding Bonds 2003, Maniposa Project Area | \$5,005,000 tax-exempt | Refund the Agency's 1993 Tax Allocation Bonds (Maniposa Project Area) | 5.500% to 5.625% | 02/01/2012 | 02/01/2023 | Principal is due in annual installments. Interest is due semiannually. Repayment of bonds is payable solely from tax increment revenues allocated by the Successor Agency to the City of Fresno Redevelopment Agency's Maniposa Project area. All such revenues are pledged. Tax increment in Maniposa Project Area of \$435,276 was equal to debt service in 2019. | \$353,000 to \$418,000 | 1,534,721 | 3,279 | 1,538,000 | 1,760,084 | 435,276 |
| Tax Allocation Bonds Total | | | | | | | | \$ 1,534,721 | \$ 3,279 | \$ 1,538,000 | \$ 1,760,084 | \$ 435,276 |
| Notes Payable | | | | | | | | | | | | |
| RDA: Roeding Business Park | \$2,118,000 Loaned | Loaned from the California Infrastructure and Economic Development Bank to be used to complete the Roeding Business Park | 3.530% | 03/18/2004 | 09/01/2033 | Principal and interest due in annual installments. Secured by Tax increment revenue received into the Roeding Business Park Project area. | \$70,047 to \$113,845 | \$ 1,354,593 | \$ — | \$ 1,354,593 | \$ 1,744,046 | \$ 116,669 |
| Notes Payable | | | | | | | | \$ 1,354,593 | \$ — | \$ 1,354,593 | \$ 1,744,046 | \$ 116,669 |
| Fiduciary Total | | | | | | | | \$ 2,889,314 | \$ 3,279 | \$ 2,892,593 | \$ 3,504,130 | \$ 551,945 |
| Grand Total | | | | | | | | \$ 953,254,704 | \$ (17,529,561) | \$ 935,725,113 | \$ 1,232,016,609 | \$ 218,574,696 |

Comparative Statistics

Municipal Financial Ratio Analysis: Fresno vs. California Top 10 by Population

| Selected Medians | Group Medians (Most Recent Available) | |
|--|---------------------------------------|--------------|
| | Moody's Ratings | |
| | Aa – CA 10 | A3–Fresno |
| General Fund Net Position as % of Revenues | 30.49 | 16.77 |
| Direct Net Debt as % of Assessed Value | 0.74 | 0.45 |
| Total Assessed Value (in thousands) | \$158,786,466 | \$34,453,903 |
| Assessed Value Per Capita | \$149,607 | \$64,198 |
| Population Estimates | 1,061,357 | 536,683 |
| Per Capital Income (Estimated) | \$71,593 | \$43,084 |

All California Top 10 in Population cities except for the City of Fresno are in the Aa range.

Peer Analysis to Largest 10 Cities

| Metric | Median | City of Fresno | Ranking |
|--|-------------|----------------|---------|
| General Fund Net Position % of Revenues | 30.2% | 16.8% | 9th |
| Unassigned General Fund Net Position % of Revenues | 8.8% | 6.3% | 7th |
| Direct Net Debt | \$1,079,303 | \$156,013 | 9th |
| Direct Net Debt Per Capita | \$1,070 | \$291 | 10th |
| Debt Burden | 70.2% | 50.4% | 10th |
| Per Capital Income | \$68,743 | \$43,084 | 9th |
| Assessed Value Per Capita | \$145,064 | \$64,198 | 10th |

Ranking: 1st is the highest and 10th is the lowest of the largest 10 cities in California (Good , Average , Not Good).

Glossary of Terms

Direct Net Debt: Total Debt less any Pension Bonds Outstanding.

Assessed Value: Total Assessed Valuation within the boundaries of the City.

Debt Burden: Direct Net Debt as a percentage of Revenues.

Debt Coverage Airport Enterprise

(in thousands)

| | Fiscal Year | | | | | | | | | |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| Operating Revenues ⁽¹⁾ | \$ 17,276 | \$ 17,565 | \$ 18,804 | \$ 19,876 | \$ 21,216 | \$ 21,802 | \$ 22,976 | \$ 24,500 | \$ 25,891 | \$ 27,308 |
| Less Operating Expenses ⁽²⁾ | 13,445 | 13,340 | 14,200 | 14,322 | 14,262 | 14,428 | 14,934 | 16,117 | 17,355 | 18,701 |
| Other Available Funds ⁽³⁾ | — | — | — | 51 | 95 | 350 | 359 | 368 | 377 | 386 |
| Net Revenues | \$ 3,831 | \$ 4,225 | \$ 4,604 | \$ 5,605 | \$ 7,049 | \$ 7,724 | \$ 8,401 | \$ 8,751 | \$ 8,913 | \$ 8,993 |
| Series 2000 Bonds | \$ 3,012 | \$ 3,013 | \$ 3,011 | \$ 3,012 | \$ 0 | \$ — | \$ — | \$ — | \$ — | \$ — |
| Series 2013 Bonds | — | — | — | — | 3,288 | 2,805 | 2,808 | 2,803 | 2,801 | 2,802 |
| Less | | | | | | | | | | |
| Minimum PFC Contribution ⁽⁴⁾ | (1,100) | (1,100) | (1,100) | (1,100) | (1,600) | (1,600) | (1,600) | (1,600) | (1,600) | (1,600) |
| Bond proceeds | — | — | (70) | — | — | — | — | — | — | — |
| Additional PFC Contribution | (1,118) | (797) | (321) | (500) | (231) | — | (200) | — | — | 0 |
| Net Series 2000/2013 Debt Service | \$ 794 | \$ 1,116 | \$ 1,520 | \$ 1,412 | \$ 1,457 | \$ 1,205 | \$ 1,008 | \$ 1,203 | \$ 1,201 | \$ 1,202 |
| Series 2007 Bonds | 1,283 | 1,283 | 1,298 | 1,332 | 1,369 | 1,399 | 1,437 | 1,472 | 1,509 | 1,544 |
| Annual Adjusted Debt Service | \$ 2,077 | \$ 2,399 | \$ 2,818 | \$ 2,744 | \$ 2,826 | \$ 2,604 | \$ 2,445 | \$ 2,675 | \$ 2,710 | \$ 2,746 |
| Annual Adjusted Debt Service Coverage ^{(5) (6)} | 1.84 | 1.76 | 1.63 | 2.04 | 2.49 | 2.97 | 3.44 | 3.27 | 3.29 | 3.27 |

Notes:

- ⁽¹⁾ State of California law requires the exclusion of Customer Facility Charge (CFC) Revenues from the calculation of Debt Service coverage in excess of annual Debt Service on the Series 2007 bonds
- ⁽²⁾ For all fiscal years, reflects Operating Expenses in operating funds only and does not include costs expensed out of Airports capital funds, such as Federal grant-funded Master Plan in FY 2018 and FY 2019.
- ⁽³⁾ Per the indenture, unencumbered CFC funds equal to 25% of Adjusted Debt Service may be designated by the City as Other Available Funds prior to the beginning of any fiscal year, and be transferred to the Revenue Fund at the beginning of such fiscal year. Since fiscal year 2015, the City's policy has been to annually designate available CFC funds equal to 25 percent of debt service associated with 2007 Bonds as Other Available Funds.
- ⁽⁴⁾ Under the Supplemental Indenture, the Minimum Passenger Facility Charge (PFC) Contribution is increased from \$1.1 million to \$1.6 million.
- ⁽⁵⁾ Numbers used for debt coverage calculated as required by the bond indenture and reflect pledged revenues and expenses in the Airports Debt Coverage Ratio.
- ⁽⁶⁾ FY 2019 rating agency coverage (Minimum PFC Contribution added to Revenues, all debt service in denominator) equals 2.44. FY 2019 coverage reflecting Airports CAFR Operating Expenses of \$21,045,870 (operating and capital funds) equals 2.42 times. FY 2019 rating agency coverage with CAFR Operating Expenses equals 1.81 times.

Water Enterprise

(in thousands)

| | Fiscal Year | | | | | | | | | |
|--|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| Revenues | | | | | | | | | | |
| Charges for Services | \$ 67,722 | \$ 67,922 | \$ 69,269 | \$ 71,667 | \$ 90,096 | \$ 74,285 | \$ 77,959 | \$ 101,895 | \$ 107,377 | \$ 119,029 |
| Less: Connection Fee Charges for Services | (1,663) | (1,218) | (1,084) | (1,331) | (1,667) | (1,496) | (1,563) | (1,917) | (2,531) | (2,138) |
| Net Charges for Services ⁽¹⁾ | 66,059 | 66,704 | 68,185 | 70,336 | 88,429 | 72,789 | 76,396 | 99,978 | 104,846 | 116,891 |
| Other Operating Revenues and Interest Income | 774 | 1,451 | 1,533 | 720 | 329 | 573 | 1,147 | 17 | 0 | 4,974 |
| Total Revenues | \$ 66,833 | \$ 68,155 | \$ 69,718 | \$ 71,056 | \$ 88,758 | \$ 73,362 | \$ 77,543 | \$ 99,995 | \$ 104,846 | \$ 121,865 |
| Expenses | | | | | | | | | | |
| Labor and Benefits | \$ 11,235 | \$ 12,433 | \$ 12,517 | \$ 12,679 | \$ 13,525 | \$ 11,378 | \$ 12,436 | \$ 12,401 | \$ 12,176 | \$ 14,581 |
| Pumping Power | 8,891 | 8,849 | 8,986 | 9,113 | 9,292 | 8,501 | 8,150 | 9,064 | 9,549 | 8,358 |
| Source of Supply | 8,044 | 7,145 | 7,748 | 6,318 | 1,780 | 5,613 | 6,630 | 4,188 | 9,751 | 6,535 |
| All Other Operating and Maintenance ⁽²⁾ | 15,613 | 17,999 | 18,386 | 16,821 | 18,151 | 17,473 | 17,166 | 21,547 | 17,692 | 35,143 |
| Total Operating Expenses ⁽³⁾ | \$ 43,783 | \$ 46,426 | \$ 47,637 | \$ 44,931 | \$ 42,748 | \$ 42,965 | \$ 44,382 | \$ 47,200 | \$ 49,168 | \$ 64,617 |
| Net Current Revenues | \$ 23,050 | \$ 21,729 | \$ 22,081 | \$ 26,125 | \$ 46,010 | \$ 30,397 | \$ 33,161 | \$ 52,795 | \$ 55,678 | \$ 57,248 |
| 2003A Senior Bond Debt Service | \$ 2,934 | \$ 1,375 | \$ 1,374 | \$ 1,376 | \$ 1,378 | \$ 1,374 | \$ 1,381 | \$ 1,380 | \$ 1,376 | \$ 1,379 |
| State Loans Debt Service | 273 | 291 | 265 | 259 | 120 | 120 | 120 | — | — | 0 |
| Total Senior Debt | \$ 3,207 | \$ 1,666 | \$ 1,639 | \$ 1,635 | \$ 1,498 | \$ 1,494 | \$ 1,501 | \$ 1,380 | \$ 1,376 | \$ 1,379 |
| Senior Coverage Ratio | 7.19 | 13.04 | 13.47 | 15.98 | 30.71 | 20.35 | 22.09 | 38.26 | 40.46 | 41.51 |
| Net Revenue Available for Parity Debt Service | \$ 19,843 | \$ 20,063 | \$ 20,442 | \$ 24,490 | \$ 44,512 | \$ 28,903 | \$ 31,660 | \$ 51,415 | \$ 54,302 | \$ 55,869 |
| 2010 Series A Bond Debt Service | \$ 3,236 | \$ 12,510 | \$ 12,515 | \$ 12,507 | \$ 12,509 | \$ 12,509 | \$ 12,531 | \$ 12,508 | \$ 12,509 | \$ 12,504 |
| State Loans Debt Service | \$ — | \$ — | \$ 75 | \$ 266 | \$ 338 | \$ 2,770 | \$ 2,786 | \$ 3,533 | \$ 6,021 | \$ 10,937 |
| Total Parity Debt Service | \$ 3,236 | \$ 12,510 | \$ 12,590 | \$ 12,773 | \$ 12,847 | \$ 15,279 | \$ 15,317 | \$ 16,041 | \$ 18,530 | \$ 23,441 |
| Parity Coverage Ratio | 6.13 | 1.60 | 1.62 | 1.92 | 3.46 | 1.89 | 2.07 | 3.21 | 2.93 | 2.38 |

Notes:

⁽¹⁾1993 Indenture defines "Current Revenues" as all revenue from the operation of the Water System except for connection fees and charges.

⁽²⁾All Other Operating and Maintenance includes Fleet Depreciation Charge (vehicle replacement fees paid to Fleet Department).

⁽³⁾1993 Indenture defines "Maintenance and Operation Costs" as all expenses incurred for maintaining and operating the Water System except for Debt Service, Depreciation, and Amortization.

Wastewater Enterprise

(in thousands)

| | Fiscal Year | | | | | | | | | |
|---|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| Charges for Services⁽¹⁾ | | | | | | | | | | |
| Interest Income | \$ 74,158 | \$ 76,628 | \$ 76,726 | \$ 76,324 | \$ 76,201 | \$ 81,955 | \$ 78,186 | \$ 83,635 | \$ 81,651 | \$ 81,085 |
| Less: Wastewater Facility Connection Fee | 3,955 | 1,619 | 3,797 | 485 | 1,546 | 1,787 | 2,779 | 492 | 2,046 | 5,548 |
| | (2,337) | (1,463) | (1,133) | (1,853) | (1,981) | (1,709) | (1,844) | (1,968) | (1,996) | (3,290) |
| Total Senior Lien Revenues | \$ 75,776 | \$ 76,784 | \$ 79,390 | \$ 74,956 | \$ 75,766 | \$ 82,033 | \$ 79,121 | \$ 82,159 | \$ 81,701 | \$ 83,343 |
| Operating Expenses ⁽²⁾ | 30,714 | 31,423 | 36,858 | 36,431 | 36,339 | 37,391 | 35,935 | 38,058 | 37,237 | 45,835 |
| Net Income Before Debt Service | \$ 45,062 | \$ 45,361 | \$ 42,532 | \$ 38,525 | \$ 39,427 | \$ 44,642 | \$ 43,186 | \$ 44,101 | \$ 44,464 | \$ 37,508 |
| Senior Lien Debt Service ⁽³⁾ | \$ 13,531 | \$ 10,754 | \$ 10,737 | \$ 10,724 | \$ 10,714 | \$ 10,695 | \$ 10,723 | \$ 10,712 | \$ 10,701 | \$ 10,684 |
| Coverage Ratio ⁽⁴⁾ | 3.33 | 4.22 | 3.96 | 3.59 | 3.68 | 4.17 | 4.03 | 4.12 | 4.16 | 3.51 |
| 100% Coverage-Subordinate Lien: Net Current Revenue after Senior Lien Debt (before Connection Fees) | \$ 31,531 | \$ 34,607 | \$ 31,795 | \$ 27,801 | \$ 28,713 | \$ 33,947 | \$ 32,463 | \$ 33,389 | \$ 33,763 | \$ 26,824 |
| Available from Senior Lien Revenues | \$ 31,531 | \$ 34,607 | \$ 31,795 | \$ 27,801 | \$ 28,713 | \$ 33,947 | \$ 32,463 | \$ 33,389 | \$ 33,763 | \$ 26,824 |
| Subordinate Lien Debt Service ⁽⁵⁾ | \$ 7,949 | \$ 7,949 | \$ 7,949 | \$ 7,949 | \$ 7,949 | \$ 7,949 | \$ 7,949 | \$ 7,949 | \$ 9,229 | \$ 5,928 |
| Coverage Ratio | 3.97 | 4.35 | 4.00 | 3.50 | 3.61 | 4.27 | 4.08 | 4.20 | 3.66 | 4.52 |
| 120% & 125% Coverage Subordinate Lien: Net Current Revenue (Excluding Connection Fees) | \$ 31,531 | \$ 34,607 | \$ 31,795 | \$ 27,801 | \$ 28,713 | \$ 33,947 | \$ 32,463 | \$ 33,389 | \$ 33,763 | \$ 26,824 |
| Wastewater Facility Connection Fee | 2,337 | 1,463 | 1,133 | 1,853 | 1,981 | 1,709 | 1,844 | 1,968 | 1,996 | 3,290 |
| Transfers From/To Rate Stabilization Fund | — | — | — | — | — | — | — | — | — | — |
| Net Current Revenue (Including Connection Fees) | \$ 33,868 | \$ 36,070 | \$ 32,928 | \$ 29,654 | \$ 30,694 | \$ 35,656 | \$ 34,307 | \$ 35,357 | \$ 35,759 | \$ 30,114 |
| Portion Pledged to Senior Lien Coverage ⁽⁶⁾ | | | | | | | | | | |
| Available From Senior Lien Revenues | \$ 33,868 | \$ 36,070 | \$ 32,928 | \$ 29,654 | \$ 30,694 | \$ 35,656 | \$ 34,307 | \$ 35,357 | \$ 35,759 | \$ 30,114 |
| Subordinate Lien Debt Service ⁽⁵⁾ | \$ 7,949 | \$ 7,949 | \$ 7,949 | \$ 7,949 | \$ 7,949 | \$ 7,949 | \$ 7,949 | \$ 7,949 | \$ 9,229 | \$ 5,928 |
| Coverage Ratio | 4.26 | 4.54 | 4.14 | 3.73 | 3.86 | 4.49 | 4.32 | 4.45 | 3.87 | 5.08 |
| Net Income After Debt Service⁽⁷⁾ | \$ 25,919 | \$ 28,121 | \$ 24,979 | \$ 21,705 | \$ 22,745 | \$ 27,707 | \$ 26,358 | \$ 27,408 | \$ 26,530 | \$ 24,186 |

Notes:

⁽¹⁾Includes revenue paid by the City of Clovis for Operations and Maintenance pursuant to the 1977 Fresno-Clovis Sewerage System Joint Powers Agreement.

⁽²⁾The 1993 Indenture specifically excludes from Operating Expenses Debt Service, Amortization and Depreciation.

⁽³⁾1993 Sewer System Revenue Bonds, Series A.

⁽⁴⁾Coverage Ratio is calculated by dividing Net Income before Debt Service by Senior Lien Debt Service.

⁽⁵⁾2008 Sewer System Revenue Refunding Bonds, Series A & Clean Water Loan for Tertiary Treatment Facility. The City redeemed \$132.54 million of the 2008 Sewer System Revenue Refunding bonds on 09/01/2018.

⁽⁶⁾The 1991 Sewer System Revenue Bonds (1991 Series A) matured in August 2003; Repayment of the bonds were funded from revenues of the Sewer System.

⁽⁷⁾Net Income after Debt Service and before cash financed capital expenses and any other expenses for lawful purposes.

Appendix - Ratings History

Lease Revenue Bonds

| Year | Moody's | | S&P | | Fitch | |
|------|-------------|---------|--------|---------|------------|---------|
| | Rating | Outlook | Rating | Outlook | Rating | Outlook |
| 2019 | Baa1 | Pos | A | Stable | A- | Stable |
| 2018 | Baa1 | Pos | A | Stable | A- | Stable |
| 2017 | Baa1 ↑ | Pos | A ↑ | Stable | A- | Stable |
| 2016 | Baa2/Baa3 ↑ | Pos | BB+ | Stable | A- ↑ | Stable |
| 2015 | Ba1/Ba2 ↑ | Stable | BB+ | Stable | BBB- | Stable |
| 2014 | Ba2/Ba3 ↓ | Pos | BB+ | Stable | BBB- | Stable |
| 2013 | Ba1/Ba2 | Neg | BB+ ↓ | Stable | BBB- ↓ | Neg |
| 2012 | Ba1/Ba2 ↓ | Neg | BBB- ↓ | Neg | BBB/BBB- ↓ | Neg |

Airport Revenue Bonds

| Year | Moody's | | S&P | | Fitch | |
|------|---------|---------|--------|---------|--------|---------|
| | Rating | Outlook | Rating | Outlook | Rating | Outlook |
| 2019 | Baa1 | Stable | A | Stable | BBB+ | Stable |
| 2018 | Baa1 | Pos | A ↑ | Stable | BBB+ ↑ | Stable |
| 2017 | Baa1 | Pos | BBB+ ↑ | Stable | BBB | Pos |
| 2016 | Baa1 | Pos | BBB | Pos | BBB | Pos |
| 2015 | Baa1 | Stable | BBB | Pos | BBB | Stable |
| 2014 | Baa1 | Stable | BBB | Stable | BBB | Stable |
| 2013 | Baa1 | Stable | BBB | Stable | BBB | Stable |
| 2012 | Baa1 | Stable | BBB | Stable | BBB | Stable |

Water Revenue Bonds

| Year | Moody's | | S&P | | Fitch | |
|------|---------|---------|--------|---------|----------|---------|
| | Rating | Outlook | Rating | Outlook | Rating | Outlook |
| 2019 | A3 | Pos | AA- | Stable | AA/A+ | Stable |
| 2018 | A3 | Pos | AA- | Stable | AA/A+ | Stable |
| 2017 | A3 | Pos | AA- | Stable | AA/A+ | Stable |
| 2016 | A3 | Pos | AA- ↑ | Stable | AA/A+ | Stable |
| 2015 | A3 | Pos | A+/A | Stable | AA/A+ | Stable |
| 2014 | A3 | Stable | A+/A | Stable | AA/A+ | Stable |
| 2013 | A3 | | A+/A | Stable | AA/A+ ↓ | Neg |
| 2012 | A3 ↓ | Neg | A+/A | Neg | AA/AA- ↑ | Neg |

Arrows indicate an increase (↑) or decrease (↓) from the prior rating.

Wastewater (Sewer) Revenue Bonds

| Year | Moody's | | S&P | | Fitch | |
|------|---------|---------|-----------|---------|--------|---------|
| | Rating | Outlook | Rating | Outlook | Rating | Outlook |
| 2019 | A1 | Pos | AA+/AA | Stable | AA/AA- | Stable |
| 2018 | A1 | Pos | AA+/AA | Stable | AA/AA- | Stable |
| 2017 | A1 | Pos | AA+/AA | Stable | AA/AA- | Stable |
| 2016 | A1 | Pos | AA+/AA | Stable | AA/AA- | Stable |
| 2015 | A1 | Pos | AA+/AA | Stable | AA/AA- | Neg |
| 2014 | A1 | Stable | AA+/AA ↑ | Stable | AA/AA- | Neg |
| 2013 | A1 | Neg | AA+/AA- ↓ | Stable | AA/AA- | Neg |
| 2012 | A1 ↓ | | AA+/AA | Neg | AA/AA- | Neg |

Arrows indicate an increase (↑) or decrease (↓) from the prior rating.



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