



# Albuquerque Bernalillo County Water Utility Authority

Albuquerque/Bernalillo  
County  
Government Center  
One Civic Plaza  
Albuquerque, NM 87102

## Agenda

*Councilor Trudy E. Jones, Chair*  
*Commissioner Debbie O'Malley, Vice-Chair*  
*Councilor Pat Davis*  
*Mayor Timothy M. Keller*  
*Councilor Klarissa J. Peña*  
*Commissioner Steven Michael Quezada*  
*Commissioner Lonnie C. Talbert*  
*Trustee Pablo Rael*

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Wednesday, September 19, 2018

5:00 PM

Vincent E. Griego Chambers

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1. **CALL TO ORDER**
2. **INVOCATION/PLEDGE OF ALLEGIANCE**
3. **APPROVAL OF MINUTES - August 22, 2018**
4. **PROCLAMATIONS AND AWARDS**
  - A. **NACWA Silver Peak Performance Award**
5. **PUBLIC COMMENT**
6. **ANNOUNCEMENTS/COMMUNICATIONS**
  - A. **Next Scheduled Meeting – October 17, 2018 at 5:00 PM**
7. **INTRODUCTION (FIRST READING) OF LEGISLATION**
8. **CONSENT AGENDA**
9. **APPROVALS**
  - A. [O-18-7](#) Authorizing the Issuance and Sale of Albuquerque Bernalillo County Water Utility Authority (the "Water Authority") Senior Lien Joint Water and Sewer System Revenue Bonds, Series 2018 in the Aggregate Principal Amount not to exceed \$83,000,000 (the "SERIES 2018 BONDS or THE BONDS") to be Issued in One Series for the Purpose of Acquiring Additional System Assets, Extending, Repairing, Replacing and Improving the Water Authority's Joint Water and Sewer System ("THE SYSTEM"); Providing for the Disposition of, and Other Details Relating to, the Revenues From the

Operation of the System Including the Payment of Debt Service on System Obligations; Determining Certain Terms and The Method of Determining Other Terms Concerning the Bonds; Providing for the Approval of Various Agreements and Disclosure Documents Relating to the Bonds; and Ratifying Action Previously Taken

- B. [R-18-20](#) Confirming Approval of the Issuance of Albuquerque Bernalillo County Water Utility Authority ("Water Authority") Senior Lien Joint Water and Sewer System Revenue Bonds, Series 2018 in one Series in the Principal Amount not to exceed \$83,000,000 (the Bonds"); and Ratifying Action Previously Taken in Connection Therewith
- C. [R-18-24](#) Approving Fiscal Year 2018 Unaudited Fourth Quarter Financial Report Year Ending June 30, 2018
- D. [C-18-31](#) FY2018 Fourth Quarter Performance Indicator Report
- E. [C-18-32](#) Approving Service Connection Agreement for Water and Sewer Service with Kidz Academy Preschool LLC at 10751 Fineland Dr. NW

**10. OTHER BUSINESS**

- A. [OB-18-13](#) Water Report

**11. ADJOURNMENT**

*Visit Our Website at [www.abcwua.org](http://www.abcwua.org)*

NOTICE TO PERSONS WITH DISABILITIES: If you have a disability and require special assistance to participate in this meeting, please contact the Authority Office as soon as possible before the meeting date at 289-3100 or by the TTY at 1-800-659-8331.

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Meeting Date: September 19, 2018  
Staff Contact: Charles Leder, Plant Division Manager

**TITLE: National Association of Clean Water Agencies Peak Performance Silver Award**

**ACTION: Information Only**

**SUMMARY:**

The Water Authority was awarded the Silver Peak Performance Award from the National Association of Clean Water Agencies (NACWA) for calendar year 2017. In order to receive the Silver Award, a utility must have five or fewer National Pollutant Discharge Elimination System (NPDES) Permit violations for the calendar year. The goal for the Water Authority is to receive the NACWA Peak Performance Gold Award for having no violations at all for its NPDES Permit during a calendar year. As a note in passing, the Water Authority had no NPDES Permit violations during Fiscal Year 2018.

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Meeting Date: September 19, 2018  
Staff Contact: Stan Allred, Chief Financial Officer

**TITLE:** O-18-7 - Authorizing the Issuance and Sale of Albuquerque Bernalillo County Water Utility Authority (the “Water Authority”) Senior Lien Joint Water and Sewer System Revenue Bonds, Series 2018 in the Aggregate Principal Amount not to exceed \$83,000,000 (the “SERIES 2018 BONDS or THE BONDS”) to be Issued in One Series for the Purpose of Acquiring Additional System Assets, Extending, Repairing, Replacing and Improving the Water Authority’s Joint Water and Sewer System (“THE SYSTEM”); Providing for the Disposition of, and Other Details Relating to, the Revenues From the Operation of the System Including the Payment of Debt Service on System Obligations; Determining Certain Terms and The Method of Determining Other Terms Concerning the Bonds; Providing for the Approval of Various Agreements and Disclosure Documents Relating to the Bonds; and Ratifying Action Previously Taken

**ACTION:** Recommend Approval

**SUMMARY:**

This Bond Ordinance is for the proposed Senior Lien Joint Water and Sewer System Revenue Bonds, Series 2018. It was prepared by the Modrall Law Firm as Bond Counsel for this transaction. The Bond Ordinance establishes certain bond details; provides for the payment of the cost of issuing the bonds; approves disclosure and other documents relating to the bonds. Attached is a presentation that will be discussed by RBC Capital Markets, the Water Authority’s municipal advisor as a part of the presentation to the Board.

The purpose of the Bond Ordinance is to provide for \$83 million in basic needs financing. The Water Authority’s current Senior Lien Bonds are rated Aa2/AA+/AA by Moody’s, Standard and Poor’s and Fitch Ratings respectively. The Water Authority’s subordinate lien is rated Aa2/AA/AA- by Moody’s, Standard and Poor’s and Fitch Ratings respectively. Rating presentations to Moody’s and Standard and Poor’s are scheduled for September 17, 2018. A Confirming Resolution and final approval of the Bond Ordinance and other matters with respect to the Bonds will be considered for final adoption at the Water Authority’s September 19, 2018 meeting. The Bond Ordinance delegates’ final approval of the pricing terms to the Chief Financial Officer subject to parameters set out in the Ordinance. The proposed financing is set to price on or near October 16, 2018. A report



and summary of the pricing terms and financing is expected to be delivered to the Board at its regularly scheduled meeting on October 17, 2018.

**COMMENTS:**

Approval of the Bond Ordinance is required for the issuance of the proposed bonds. Final action is expected at the Water Authority's September Board meeting. The Board has delegated final approval of the pricing terms to the Chief Financial Officer. Subject to market conditions, a report and summary of the pricing terms and financing will be delivered to the Board at its regularly scheduled meeting on October 17, 2018. This Ordinance authorizes the financing necessary to carry out the Capital Improvements Plan outlined in the Decade Plan and the 2019 Finance Plan. It is anticipated that the financing would be completed by October 31, 2018.

Current Senior Lien Bond ratings for this issue are as follows: AA+ Standard and Poor's, Aa2 Moody's. Fitch has a AA rating on outstanding bond prior to 2016 but the Authority will not be requesting a rating from Fitch for the 2018 Bonds or future debt issuances.

A floor substitute may be prepared by Bond Counsel which makes technical adjustments.

**FISCAL IMPACT:**

Based upon current market conditions the new money financing will have a 12 year final maturity (July 1, 2030) with annual debt service of approximately \$8.85 million beginning in fiscal year 2020. There will be interest only payment in fiscal year 2019. Gross Revenues, all income and revenues directly or indirectly derived by the Water Authority from the operation and use of the System less operation and maintenance expenses, are pledged as security for these bonds, similar to the Water Authority's prior debt issuances.

**ALBUQUERQUE BERNALILLO COUNTY  
WATER UTILITY AUTHORITY**

**BILL NO. 0-18-7**

# ORDINANCE

**AUTHORIZING THE ISSUANCE AND SALE OF ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY (THE “WATER AUTHORITY”) SENIOR LIEN JOINT WATER AND SEWER SYSTEM IMPROVEMENT REVENUE BONDS, SERIES 2018 IN AN AGGREGATE PRINCIPAL AMOUNT NOT TO EXCEED \$83,000,000 (THE “SERIES 2018 BONDS” OR THE “BONDS”) TO BE ISSUED IN ONE OR MORE SERIES FOR THE PURPOSE OF ACQUIRING ADDITIONAL SYSTEM ASSETS, AND EXTENDING, REPAIRING, REPLACING AND IMPROVING THE WATER AUTHORITY’S JOINT WATER AND SEWER SYSTEM (“THE SYSTEM”); PROVIDING FOR THE DISPOSITION OF, AND OTHER DETAILS RELATING TO, THE REVENUES FROM THE OPERATION OF THE SYSTEM INCLUDING THE PAYMENT OF DEBT SERVICE ON SYSTEM OBLIGATIONS; DETERMINING CERTAIN TERMS AND THE METHOD OF DETERMINING OTHER TERMS CONCERNING THE BONDS; PROVIDING FOR THE APPROVAL OF VARIOUS AGREEMENTS AND DISCLOSURE DOCUMENTS RELATING TO THE BONDS; DELEGATING AUTHORITY TO THE DELEGATE TO EXECUTE AND DELIVER A BOND PURCHASE AGREEMENT FOR THE SALE OF THE BONDS TO THE UNDERWRITERS PURSUANT TO THE SUPPLEMENTAL PUBLIC SECURITIES ACT; AND RATIFYING ACTION PREVIOUSLY TAKEN**

Capitalized terms used in the following preambles are defined in Section 1 of this Bond Ordinance, unless the context requires otherwise.

WHEREAS, the Water Authority is a legally and regularly created, established, organized and existing public body politic and corporate, separate and apart from the City and the County, under the general laws of the State; and

WHEREAS, the Water Authority owns, operates and maintains the System as a joint public utility water and sewer system; and

WHEREAS, the Water Authority is obligated on the following Senior Obligations, payable from Net Revenues, Outstanding on the date of the adoption of this Bond Ordinance in the following principal amounts:

	Amount
<u>Senior Obligations</u>	<u>Outstanding</u>
Series 2009A-1 Bonds	\$ 8,395,000
Series 2013A&B Bonds	\$ 74,685,000
Series 2014A Bonds	\$ 79,995,000
Series 2015 Bonds	\$196,710,000
Series 2017 Bonds	\$ 84,090,000
Drinking Water State Revolving Fund Loan Agreement (2009)	\$ 765,498
Public Project Revolving Fund Loan Agreement (2011)	\$ 32,120,000
Drinking Water State Revolving Fund Loan Agreement #4200 (2018)	\$ 505,000
Drinking Water State Revolving Fund Loan Agreement #4202 (2018)	\$ 250,000
and	

WHEREAS, the Water Authority is obligated on the following Subordinate Obligations, payable from Net Revenues with a lien on the Net Revenues subordinated to the Senior Obligations, and superior to the lien of the Super Subordinated Obligations, Outstanding on the date of the adoption of this Bond Ordinance in the following principal amounts:

	Amount
<u>Subordinate Obligations</u>	<u>Outstanding</u>
Series 2014B Bonds	\$ 58,865,000
Drinking Water State Revolving Fund Loan Agreement (2008)	\$ 6,860,187
and	

WHEREAS, the Water Authority does not have any Super Subordinated Obligations, payable from Net Revenues with a lien on the Net Revenues subordinated to the Senior Obligations and the Subordinate Obligations, Outstanding on the date of the adoption of this Bond Ordinance; and

1  
2 WHEREAS, except as stated in these preambles, the Net Revenues have not  
3 been pledged or hypothecated to the payment of any Outstanding obligations and no  
4 other obligations are payable from the Net Revenues on the date of this Bond  
5 Ordinance; and

6 WHEREAS, there are no obligations which have a lien on the Net Revenues  
7 superior to the lien thereon of the Senior Obligations; and

8 WHEREAS, the Board hereby determines that (i) the Project may be financed  
9 with a portion of the proceeds of the Bonds and (ii) it is necessary and in the best  
10 interests of the Water Authority and the residents of the geographic area served by  
11 the Water Authority that the Bonds be authorized pursuant to the Act; and

12 WHEREAS, the Board has determined that it may lawfully pledge the Net  
13 Revenues for repayment of the Bonds; and

14 WHEREAS, the Water Authority intends to use the proceeds of the Bonds for  
15 the purpose of acquiring additional System assets, and extending, repairing,  
16 replacing and improving the System; and

17 WHEREAS, it is in the best interests of the Water Authority to sell the Bonds  
18 to the Underwriters in a negotiated sale upon the terms as set forth in the Bond  
19 Purchase Agreement and the Sale Certificate; and

20 WHEREAS, there have been presented to the Board for approval the  
21 Preliminary Official Statement, and the form of Continuing Disclosure Undertaking,  
22 and form of the Bond Purchase Agreement; and

23 WHEREAS, the Water Authority expects to receive an offer from the  
24 Underwriters to purchase the Bonds pursuant to the Bond Purchase Agreement to  
25 be executed by the Delegate pursuant to Section 6-14-10.2 NMSA 1978, all within  
26 the parameters set forth in this Bond Ordinance; and

27 WHEREAS, all required authorizations, consents or approvals of any  
28 governmental body, agency or authority in connection with charging the current rates  
29 for services of the System and for the authorization, execution and delivery of the  
30 Bonds which are required to have been obtained by the date of this Bond Ordinance

1 or which will be required to be obtained prior to the date of issuance of the Bonds  
2 have been or will have been obtained by such dates.

3 BE IT ORDAINED BY THE BOARD OF THE WATER AUTHORITY:

4 Section 1. DEFINITIONS AND RULES OF CONSTRUCTION.

5 (A) DEFINITIONS. As used in this Bond Ordinance, the following  
6 terms have the meanings specified, unless the context clearly requires otherwise:

7 ACT. Section 72-1-10 NMSA 1978, Sections 3-31-1 through 3-31-12  
8 NMSA 1978, Sections 4-62-1 to 4-62-10 NMSA 1978, Sections 6-14-8 through 6-14-  
9 11 NMSA 1978, Sections 6-18-1 through 6-18-16 NMSA 1978, and enactments of  
10 the Board relating to the Bond Legislation.

11 ACQUISITION FUND. The acquisition fund previously established by  
12 the Water Authority and continued in Section 20 of this Bond Ordinance.

13 AUTHENTICATING AGENT. The Registrar or any trust company,  
14 national or state banking association or financial institution qualified to act and  
15 appointed as the authenticating agent for the Bonds by an Authorized Officer from  
16 time to time.

17 AUTHORIZED DENOMINATIONS. Denominations of \$5,000 or  
18 integral multiples of \$5,000.

19 AUTHORIZED OFFICER. The Chair, the Executive Director of the  
20 Water Authority, or other officer or employee of the Water Authority when designated  
21 by a certificate signed by the Chair from time to time.

22 BASIC CAPITAL PROGRAM. The Water Authority's basic capital  
23 program for funding annual capital needs for regular System improvements,  
24 expansion, maintenance and upgrades to operate a water and wastewater utility.

25 BENEFICIAL OWNERS. Beneficial Owners as defined in Section  
26 7.(C).

27 BOARD. The governing body in which is vested the legislative power  
28 of the Water Authority.

29 BOND, BONDS OR SERIES 2018 BONDS. The Albuquerque  
30 Bernalillo County Water Utility Authority Senior Lien Joint Water and Sewer System  
31 Improvement Revenue Bonds, Series 2018 issued pursuant to the Bond Legislation.

1           BOND COUNSEL. An attorney at law or a firm of attorneys,  
2 designated by the Water Authority, of nationally recognized standing in matters  
3 pertaining to the issuance of bonds issued by states and their political subdivisions.

4           BOND INSURANCE POLICY. A municipal bond insurance policy  
5 issued by a Credit Source insuring the payment when due of the principal of and  
6 interest on Insured Obligations.

7           BOND LEGISLATION. Collectively, the Bond Ordinance, the  
8 Confirming Resolution and the Sale Certificate.

9           BOND ORDINANCE. This Ordinance, as amended or supplemented  
10 from time to time.

11           BOND PURCHASE AGREEMENT. The Bond Purchase Agreement  
12 among the Water Authority and the Underwriters of the Bonds.

13           BUSINESS DAY. Any day during which any Credit Source, the Paying  
14 Agent or the Registrar, the offices of the Water Authority and the New York Stock  
15 Exchange are all open for business during normal business hours.

16           CHAIR. The duly elected Chair of the Board or the Vice Chair of the  
17 Board acting in the absence of the Chair.

18           CITY. The City of Albuquerque, in the County of Bernalillo and State  
19 of New Mexico.

20           CLOSING DATE. The date of delivery of the Bonds to the  
21 Underwriters or their designee.

22           CODE. The Internal Revenue Code of 1986, as amended, the federal  
23 income tax regulations of the Treasury Department (whether proposed, temporary or  
24 final) and any amendments of, or successor provisions to, the foregoing and any  
25 official rulings, announcements, notices, procedures and judicial determinations  
26 regarding any of the foregoing, all as and to the extent applicable. Unless otherwise  
27 indicated, reference to a section of the Code in this Bond Ordinance means that  
28 section of the Code and such applicable regulations, rulings, announcements,  
29 notices, procedures and determinations pertinent to that section.

1 COMPLETION DATE. The date of completion of the Project, or, for  
2 purposes of the Prospective Test Period, the date of completion of the project for  
3 which the additional System Obligations are to be issued.

4 CONFIRMING RESOLUTION. A resolution adopted on the date of  
5 adoption of this Bond Ordinance declaring the necessity of the issuance of the  
6 Bonds and confirming the terms hereof for purposes of Section 72-1-10(M) NMSA  
7 1978, as amended.

8 CONSULTING ENGINEER. Any registered or licensed professional  
9 engineer or firm of engineers, entitled to practice and practicing as such under the  
10 laws of the State, retained and compensated by the Water Authority but not in the  
11 regular employ of the Water Authority, the City or the County; but, as to any  
12 construction drawings and specifications prepared for the System by Water Authority  
13 or City employees under the supervision of an engineer employed by the Water  
14 Authority or the City, this term may include such engineer.

15 CONTINUING DISCLOSURE UNDERTAKING. The undertaking of  
16 the Water Authority pursuant to which the Water Authority will agree for the benefit  
17 of Owners that, while the Bonds are Outstanding, the Water Authority will annually  
18 provide certain financial information and operating data and audited financial  
19 statements and will provide notice of certain events in accordance with Rule 15c2-12  
20 promulgated by the United States Securities and Exchange Commission under the  
21 Securities Exchange Act of 1934.

22 COUNSEL. An attorney at law (who may be counsel to the Water  
23 Authority).

24 COUNTY. Bernalillo County, New Mexico.

25 CREDIT FACILITY. A letter of credit, line of credit, Bond Insurance  
26 Policy or Reserve Account Surety Bond, guaranty or similar agreement provided by  
27 a Credit Source to provide support to pay the purchase price of, or the payment  
28 when due of the principal of and interest on, System Obligations.

29 CREDIT SOURCE. Any bank, insurance company or other financial  
30 institution which provides a Credit Facility for a series of System Obligations.

1 DEBT SERVICE ACCOUNT. An account of the Debt Service Fund for  
2 the deposit of Net Revenues and proceeds of a series of System Obligations for the  
3 payment of Debt Service Requirements on that series of System Obligations.

4 DEBT SERVICE FUND. The Debt Service Fund previously established  
5 by the Water Authority and continued in Section 20 of this Bond Ordinance.

6 DEBT SERVICE REQUIREMENTS. With respect to System  
7 Obligations and for any given period, the sum of: (1) the amount required to pay the  
8 interest, or to make reimbursements for payments of interest, becoming due on  
9 System Obligations during that period, plus (2) the amount required to pay the  
10 principal or to make reimbursements for the payment of principal becoming due on  
11 System Obligations during that period, whether at maturity or upon mandatory  
12 sinking fund redemption dates, plus (3) the periodic payments required to be made  
13 by the Water Authority pursuant to a Qualified Exchange Agreement minus (4) the  
14 periodic payments to be received by the Water Authority pursuant to a Qualified  
15 Exchange Agreement. No payments required for any System Obligations which may  
16 be tendered or otherwise presented for payment at the option or demand of the  
17 owners of System Obligations, or which may occur because of the exercise of an  
18 option by the Water Authority, or which may otherwise become due by reason of any  
19 other circumstance or contingency, including acceleration or early termination  
20 payments, which constitute other than regularly scheduled payments of principal,  
21 interest or other regularly scheduled payments on System Obligations shall be  
22 included in any computation of Debt Service Requirements for that period.

23 Unless, at the time of computation of Debt Service Requirements, payments  
24 on System Obligations are owed to, or System Obligations are owned or held by, the  
25 provider of a Credit Facility pursuant to the provisions of that Credit Facility, the  
26 computation of interest for the purposes of this definition shall be made without  
27 considering the interest rate payable pursuant to a Credit Facility.

28 In any computation of Debt Service Requirements relating to the issuance of  
29 additional System Obligations, there shall be excluded from the computation of the  
30 Debt Service Requirements amounts and investments which are irrevocably  
31 committed to make designated payments on System Obligations during the



1 applicable period, including, without limitation, money on deposit in any Debt Service  
2 Account and amounts on deposit in an escrow account irrevocably committed to  
3 make designated payments on System Obligations during the applicable period and  
4 earnings on such investments which are payable and committed to the payment of  
5 such System Obligations during the applicable period.

6 Unless otherwise required by a Water Authority ordinance or resolution  
7 relating to a series of System Obligations, to determine Debt Service Requirements  
8 of Variable Rate Obligations, the Water Authority shall use the procedures set forth  
9 in the following paragraphs to determine the amount of interest or other payments to  
10 be paid by the Water Authority on Variable Rate Obligations.

11 (1) During any historical period for which the actual variable  
12 interest rate or rates are determinable, the actual variable interest rate shall be used.  
13 During any historical period when the actual variable interest rate is not  
14 determinable, the variable interest rate shall, for the purpose of determining Debt  
15 Service Requirements, be deemed to be the higher of:

16 (a) the actual variable interest rate, if any, at the time  
17 of computation; or

18 (b) a fixed annual rate equal to the prevailing rate on  
19 the Variable Rate Obligations on the date of computation (which, for the purpose of  
20 determining the Debt Service Requirements, shall be a date which is no more than  
21 60 days prior to the date of issuance of the applicable System Obligations) as  
22 certified by the Water Authority's financial advisor, the Underwriters of the System  
23 Obligations, an investment banker designated by the Water Authority from time to  
24 time or a counterparty with respect to a Qualified Exchange Agreement.

25 (2) Prospective computations of interest payable on Variable  
26 Rate Obligations, including those relating to the issuance of additional System  
27 Obligations required by Section 27 or required by the Rate Covenant, shall be made  
28 on the assumption that such obligations bear interest at a fixed annual rate equal to:

29 (a) the average of the daily rates of such System  
30 Obligations during the 365 consecutive days (or any lesser period such System  
31 Obligations have been Outstanding) next preceding a date which is no more than 60

1 days prior to the date of the issuance of the additional System Obligations; or  
2 (b) with respect to System Obligations initially issued  
3 or incurred as or being converted to Variable Rate Obligations, the estimated initial  
4 rate of interest of such System Obligations upon the date of issuance, exchange or  
5 conversion as certified by the Water Authority's financial advisor, another investment  
6 banker, as designated by the Water Authority from time to time, or a counterparty  
7 with respect to a Qualified Exchange Agreement.

#### 8 DEFEASANCE OBLIGATIONS.

9 (1) Government Obligations; or  
10 (2) if permitted by law, other obligations which would result in  
11 the defeased Bonds receiving the same rating from any national rating agency then  
12 rating such series of bonds as would have been received if the obligations described  
13 in clause (1) of this definition had been used.

14 DELEGATE means the Chief Financial Officer or other Authorized  
15 Officer of the Water Authority delegated the authority to approve the final terms of  
16 the bonds.

17 DEPOSITORY OR DEPOSITORIES. The following registered  
18 securities depository: The Depository Trust Company, 570 Washington Boulevard,  
19 Jersey City, New Jersey 07310, <http://www.dtcc.com>; or in accordance with then-  
20 current guidelines of the Securities and Exchange Commission, to such other  
21 addresses and/or such other securities depositories, or no such depositories, as an  
22 Authorized Officer may designate in a certificate of the Water Authority.

23 DRINKING WATER STATE REVOLVING FUND LOAN AGREEMENT  
24 (2008). The loan agreement dated November 7, 2008 between the NMFA and the  
25 Water Authority in the original principal amount of \$9,627,877, authorized and  
26 approved by Water Authority Ordinance Enactment No. F/S O-08-4 and Resolution  
27 Enactment No. F/S R-08-13 as amended by Ordinance No. F/S O-14-2 and the  
28 Amendment to the Loan Agreement dated July 24, 2014 constituting a subordinate  
29 lien on the Net Revenues.

30 DRINKING WATER STATE REVOLVING FUND LOAN AGREEMENT  
31 (2009). The loan agreement between the NMFA and the Water Authority in the

1 original principal amount of \$1,010,000, authorized and approved by Water Authority  
2 Ordinance Enactment No. O-09-9 and Resolution Enactment No. R-09-24  
3 constituting a senior lien on the Net Revenues.

4 DRINKING WATER STATE REVOLVING FUND LOAN AGREEMENT  
5 #4200 (2018). The loan agreement between the NMFA and the Water Authority in  
6 the original principal amount of \$505,000 authorized and approved by Water  
7 Authority Ordinance No. O-18-2 and Resolution No. R-18-7 constituting a senior lien  
8 on the Net Revenues.

9 DRINKING WATER STATE REVOLVING FUND LOAN AGREEMENT  
10 #4202 (2018). The loan agreement between the NMFA and the Water Authority in  
11 the original principal amount of \$250,000 authorized and approved by Water  
12 Authority Ordinance No. O-18-5 and Resolution No. R-18-11 constituting a senior  
13 lien on the Net Revenues.

14 ELECTRONIC MEANS. Telephone, telecopy, telegraph, email,  
15 facsimile transmission or any other similar means of electronic communication. Any  
16 communication by telephone as an Electronic Means shall promptly be confirmed in  
17 writing, which may be by one of the other means of electronic communication listed  
18 in this definition.

19 EMMA. The Municipal Securities Rulemaking Board's Electronic  
20 Municipal Market Access System located on its website at [emma.msrb.org](http://emma.msrb.org).

21 EXPENSE ACCOUNT. That account continued in Section 20 of this  
22 Bond Ordinance for the purpose of paying Expenses and which is a separate  
23 account of the Debt Service Fund.

24 EXPENSES. The reasonable and necessary fees, costs and  
25 expenses incurred by the Water Authority with respect to the issuance of, including  
26 disclosure matters pertaining to, the Bonds, including, without limitation, attorneys'  
27 fees and costs, financial advisor's fees and costs, premiums and costs for any Credit  
28 Facility, costs of advertising and publication, underwriter's discounts, cost of printing  
29 bonds and disclosure documents, fees and costs of the Escrow Agent, legal fees  
30 and expenses, bidding agent's fees and costs relating to the initial purchase of  
31 securities for deposit with the Escrow Agent, including any fees and costs

1 associated with any verification agent, and expenses of any Independent Accountant  
2 and all reasonable and necessary fees and administrative costs of the Water  
3 Authority relating to the foregoing.

4 FISCAL YEAR. The twelve-month period beginning on the first day of  
5 July of each year and ending on the last day of June of the next succeeding year, or  
6 any other consecutive twelve-month period, which the Water Authority designates as  
7 its Fiscal Year.

8 GOVERNMENT OBLIGATIONS. Direct obligations of, or obligations  
9 the principal of and interest on which are unconditionally guaranteed by, the United  
10 States of America, or certificates or receipts established by the United States  
11 Government or its agencies or instrumentalities representing direct ownership of  
12 future interests or principal payments on direct obligations of, or obligations fully  
13 guaranteed by, the United States of America or any of its agencies or  
14 instrumentalities the obligations of which are backed by the full faith and credit of the  
15 United States, which obligations are held by a custodian in safekeeping on behalf of  
16 the holders of such receipts, and rated or assessed in its highest Rating Category by  
17 S&P, if then rating the Bonds, and by Moody's, if then rating the Bonds.

18 GROSS REVENUES. All income and revenues directly or indirectly  
19 derived by the Water Authority from the operation and use of the System, or any part  
20 of the System, and includes, without limitation, all revenues received by the Water  
21 Authority, or any municipal corporation or agency succeeding to the rights of the  
22 Water Authority, from the System and from the sale and use of water, water services  
23 or facilities, sewer service or facilities or any other service, commodity or facility or  
24 any combination thereof furnished to the inhabitants of the geographic area served  
25 by the Water Authority by means of the System as the same may at any time exist to  
26 serve customers outside the Water Authority's geographical limits as well as  
27 customers within the Water Authority's geographical limits. Such term also includes:

28 (1) All income derived from the investment of any money in  
29 the Acquisition Fund, Joint Water and Sewer Fund, Debt Service Fund and Rate  
30 Stabilization Fund and income derived from surplus Net Revenues;

31 (2) Money released from the Rebate Fund to the Water

1 Authority;

2 (3) Money released from the Rate Stabilization Fund to the  
3 Water Authority to the extent that the amount released is used to pay Operation and  
4 Maintenance Expenses or Debt Service Requirements on System Obligations in the  
5 year released; provided that withdrawals from the Rate Stabilization Fund shall not  
6 be included in Gross Revenues for the purposes of the Rate Covenant in any two  
7 consecutive calendar years;

8 (4) Property insurance proceeds which are not necessary to  
9 restore or replace the property lost or damaged and the proceeds of the sale or  
10 other disposition of any part of the System; and

11 (5) Funds received from users of the System as a  
12 reimbursement of, or otherwise in connection with, franchise fees to be paid by the  
13 Water Authority.

14 Gross Revenues do not include:

15 (1) any money received as grants or gifts from the United  
16 States of America, the State or other sources, or the proceeds of any charge or tax  
17 intended as a replacement therefor or other capital contributions from any source  
18 which are restricted as to use; and

19 (2) condemnation proceeds or the proceeds of any  
20 insurance policy, except any property insurance proceeds described above in clause  
21 (4) of this definition or in Section 29(L) or derived in respect of loss of use or  
22 business interruption.

23 HISTORIC TEST PERIOD. Any period of 12 consecutive months out  
24 of the 24 calendar months next preceding the delivery of additional Senior  
25 Obligations pursuant to Section 27(B) or additional Subordinate Obligations pursuant  
26 to Section 27(C).

27 INDEPENDENT ACCOUNTANT. Any certified public accountant,  
28 registered accountant, or firm of accountants duly licensed to practice and practicing  
29 as such under the laws of the State, appointed and paid by the Water Authority who  
30 (a) is, in fact, independent and not under the domination of the Water Authority, the  
31 City or the County, (b) does not have any substantial interest, direct or indirect, with

1 the Water Authority, the City or the County, and (c) is not connected with the Water  
2 Authority as an officer or employee of the Water Authority, but who may be regularly  
3 retained to make annual or similar audits of the books or records of the Water  
4 Authority, the City or the County.

5 INSURED BANK. A bank insured by an agency of the United States.

6 INSURED OBLIGATIONS. System Obligations insured by a Bond  
7 Insurance Policy or payable with the proceeds of another Credit Facility.

8 INTEREST PAYMENT DATE. January 1 and July 1 of each year (or if  
9 such day is not a Business Day, then the next succeeding Business Day) beginning  
10 on January 1, 2019.

11 JOINT WATER AND SEWER FUND. The "City of Albuquerque, New  
12 Mexico, Joint Water and Sewer Fund" originally established in Section 16 of City  
13 Ordinance No. 18-1984 and continued in Section 20 of this Bond Ordinance as the  
14 "Albuquerque Bernalillo County Water Utility Authority Joint Water and Sewer Fund."

15 MOODY'S. Moody's Investors Service, Inc., a corporation organized  
16 and existing under the laws of the State of Delaware, its successors and their  
17 assigns, and, if such corporation does not provide a rating for the Bonds, "Moody's"  
18 shall be deemed to refer to any other nationally recognized securities rating agency  
19 rating the Bonds.

20 NMFA. The New Mexico Finance Authority.

21 NMSA 1978. New Mexico Statutes Annotated, 1978 Compilation, as  
22 amended and supplemented.

23 NET REVENUES. The Gross Revenues after deducting Operation  
24 and Maintenance Expenses.

25 OFFICIAL STATEMENT. The final disclosure document relating to the  
26 offer and sale of the Bonds (including the cover page and all summary statement  
27 appendices and other materials included or incorporated by reference or attached  
28 thereto), as amended or supplemented.

29 OPERATION AND MAINTENANCE EXPENSES. All reasonable and  
30 necessary current expenses of the System, paid or accrued, related to operating,

1 maintaining and repairing the System including, without limiting the generality of the  
2 foregoing:

3 (1) legal and overhead expenses directly related and  
4 reasonably allocable to the administration of the System;

5 (2) insurance premiums for the System, including, without  
6 limitation, premiums for property insurance, public liability insurance and workmen's  
7 compensation insurance, whether or not self-funded;

8 (3) premiums, expenses and other costs (other than required  
9 reimbursements of insurance proceeds and other amounts advanced to pay Debt  
10 Service Requirements on System Obligations) for Credit Facilities;

11 (4) Expenses other than expenses paid from the proceeds of  
12 System Obligations;

13 (5) the costs of audits of the books and accounts of the  
14 Water Authority and the System;

15 (6) amounts required to be deposited in the Rebate Fund or  
16 otherwise required to make rebate payments to the United States Government;

17 (7) salaries, administrative expenses, labor costs, surety  
18 bonds and the cost of materials and supplies used for or in connection with the  
19 current operation of the System; and

20 (8) franchise tax payments to the City, County or any other  
21 local government.

22 Operation and Maintenance Expenses do not include any allowance for  
23 depreciation, payments in lieu of taxes, liabilities incurred by the Water Authority as  
24 a result of its negligence or other misconduct in the operation of the System or any  
25 charges or costs allocable to capital improvements or replacements. Operation and  
26 Maintenance Expenses do not include any payment of or reimbursement for the  
27 payment of Debt Service Requirements or premiums on the Bonds.

28 OUTSTANDING. When used in reference to System Obligations, on  
29 any particular date, the aggregate of all System Obligations issued and delivered  
30 under the applicable Water Authority ordinance authorizing the issuance of, System  
31 Obligations except:

1 (1) those canceled at or prior to such date or delivered to or  
2 acquired by the Water Authority at or prior to such date for cancellation;

3 (2) those which have been paid or are deemed to be paid in  
4 accordance with the Water Authority ordinance or resolution authorizing the  
5 issuance of the applicable System Obligations or otherwise relating thereto, provided  
6 that the payment of Insured Obligations with the proceeds of a Bond Insurance  
7 Policy shall not result in those Insured Obligations ceasing to be Outstanding;

8 (3) in the case of Variable Rate Obligations, System  
9 Obligations deemed tendered but not yet presented for payment;

10 (4) those Bonds which have been refunded in accordance  
11 with this Bond Ordinance or other ordinances of the Water Authority authorizing the  
12 defeasance of such designated System Obligations; and

13 (5) those in lieu of or in exchange or substitution for which  
14 other System Obligations shall have been delivered, unless proof satisfactory to the  
15 Water Authority and the Paying Agent for the applicable System Obligations is  
16 presented that any System Obligation for which a new System Obligation was  
17 issued or exchanged is held by a bona fide holder in due course.

18 OWNER. The registered owner or owners of any Bond as shown on  
19 the registration books maintained by the Registrar.

20 PAYING AGENT. The Chief Financial Officer or successor in function  
21 of the Water Authority or any trust company, national or state banking association or  
22 financial institution qualified to act, appointed as the paying agent for the Bonds by  
23 an Authorized Officer from time to time.

24 PERMITTED INVESTMENTS. Any of the following which at the time  
25 of the investment are legal investments for the Water Authority for the money to be  
26 invested and any other investments, subject to approval by S&P and Moody's, if  
27 then rating the Bonds, which at the time of investment are legal investments of the  
28 Water Authority for the money to be invested:

29 (1) United States Government Obligations: Securities  
30 backed by the full faith and credit of the U.S. Government including direct obligations  
31 of the U.S. Treasury, such as U.S. treasury notes and bills and "Ginnie Mae"



1 mortgage-backed certificates issued by the Government National Mortgage  
2 Association;

3 (2) United States Government Obligations: Securities issued  
4 or guaranteed by U.S. Government agencies, instrumentalities or sponsored  
5 enterprises, but which are not backed by the full faith and credit of the U.S.  
6 Government. These securities include Federal Farm Credit Bank “FFCB”, Federal  
7 Home Loan Bank “FHLB”, Federal Home Loan Mortgage Corporation “FHLMC” and  
8 Federal National Mortgage Association “FNMA” and other entities that qualify as  
9 instrumentalities of the U.S. government. Additionally, mortgage-backed certificates,  
10 and debentures issued by “Freddie Mac” (Federal Home Loan Mortgage  
11 Corporation) and “Fannie Mae” (Federal National Mortgage Association) are  
12 allowable;

13 (3) Bank, Savings and Loan Associations or Credit Unions:  
14 Deposits in certified and designated New Mexico financial institutions, per the  
15 requirement in the New Mexico Constitution Article VIII, Section 4, whose deposits  
16 are insured by an agency of the United States. All deposits will comply with State  
17 law of the Board related to interest rate and collateral requirements. CD deposits  
18 shall not be made with custodial banks of the Water Authority. A deposit in any  
19 credit union shall be limited to the amount insured by an agency of the United  
20 States;

21 (4) Municipal Securities: Obligations, the interest on which is  
22 excluded from gross income of the recipient for federal income tax purposes, which  
23 comply with State law and the policies of the Board;

24 (5) Money market instruments and other securities of  
25 commercial banks, broker-dealers or recognized financial investors, which securities  
26 or institutions are rated in the highest Rating Category by S&P or Moody’s, if then  
27 rating the Bonds, or which securities are guaranteed by a person or entity whose  
28 long-term debt obligations are rated in the highest Rating Category by S&P and  
29 Moody’s, if then rating the Bonds, including, without limitation, securities of, or other  
30 interests in, any open-end or closed-end management type investment company or  
31 investment trust registered under the provisions of 15 U.S.C. Sections 80(a)-1 et.

1 seq., which invest only in, or whose securities are secured only by, obligations of the  
2 type set forth in paragraphs (1) and (2) of this definition;

3 (6) The “local government investment pool” described in  
4 Section 6-10-10.1 NMSA. 1978 or other similar pooled fund maintained by the State  
5 for the investment of public funds of local public bodies of the State; and

6 (7) Repurchase agreements involving the purchase and sale  
7 of, and guaranteed investment contracts, the par value of which is collateralized by a  
8 perfected first pledge of, or security interest in, or the payments of which are  
9 unconditionally guaranteed by, securities described in parts (1) and (2) of this  
10 definition, which collateral is held by the Water Authority, or for the benefit of the  
11 Water Authority, by a party other than the provider of the guaranteed investment  
12 contract or repurchase agreement, with a collateralized value of at least 102% of the  
13 par value of such repurchase agreement or guaranteed investment contract or 102%  
14 of the market value thereof, valued at intervals of no less than monthly and which  
15 collateral is not subject to any other pledge or security interest.

16 PRELIMINARY OFFICIAL STATEMENT. The initial disclosure  
17 document relating to the offer and sale of the Bonds (including the cover page and  
18 all summary statements, appendices and other materials included or incorporated by  
19 reference or attached thereto), as amended or supplemented.

20 PRINCIPAL PAYMENT DATE. July 1<sup>st</sup> of each year beginning on  
21 the date set forth in the Bond Purchase Agreement and Sale Certificate, so long as  
22 the Bonds are Outstanding.

23 PROJECT OR IMPROVEMENT PROJECT. Acquiring additional  
24 System assets, extending, repairing, replacing and improving the Water Authority’s  
25 System and the payment of Expenses associated with the issuance of the Bonds.

26 PROSPECTIVE TEST PERIOD. The 12-month period commencing  
27 on the first day of the month following the estimated Completion Date of the project  
28 for which additional Senior Obligations or Subordinate Obligations are proposed to  
29 be issued pursuant to Section 27(B) or Section 27(C), respectively, or the first day of  
30 the thirty-sixth month following the delivery of such Senior Obligations or  
31 Subordinate Obligations, whichever is earlier.

1 PUBLIC PROJECT REVOLVING FUND LOAN AGREEMENT (2011).  
2 The loan agreement dated December 15, 2011 between the NMFA and the Water  
3 Authority in the principal amount of \$53,400,000 and approved by Ordinance No. O-  
4 11-5 and Resolution No. R-11-17 constituting a senior lien on the Net Revenues.

5 QUALIFIED EXCHANGE AGREEMENT. Any interest rate exchange  
6 between the Water Authority and a counterparty which, when entered into by the  
7 Water Authority, satisfies the requirements of Section 6-18-8.1 NMSA 1978.

8 RATE COVENANT. The covenants in Section 29.(C) relating to  
9 charging rates for use of the System to pay Debt Service Requirements.

10 RATE STABILIZATION FUND. The Rate Stabilization Fund for  
11 System Obligations previously established by the Water Authority and continued in  
12 Section 20 of this Bond Ordinance.

13 RATING CATEGORY. A generic securities rating category, without  
14 regard, in the case of a long-term rating category, to any refinement or gradation of  
15 such long-term rating category by a numerical modifier or otherwise.

16 REBATE FUND. The Rebate Fund for System Obligations previously  
17 established by the Water Authority and continued in Section 20 of this Bond  
18 Ordinance.

19 RECORD DATE. The fifteenth day of the calendar month preceding  
20 each Interest Payment Date.

21 REGISTRAR. The Chief Financial Officer or successor in function of  
22 the Water Authority or any trust company, national or state banking association or  
23 financial institution qualified to act, appointed as the registrar for the Bonds by an  
24 Authorized Officer from time to time.

25 RESERVE ACCOUNT. The accounts of the Debt Service Fund to be  
26 established for Senior Obligations or Subordinate Obligations with a reserve  
27 requirement.

28 RESERVE ACCOUNT SURETY BOND. Any policy of insurance or  
29 surety bond or other Credit Facility issued to the Water Authority to be deposited in a  
30 Reserve Account, the proceeds of which shall be used to prevent deficiencies in the  
31 payment of the principal of or interest on a series of System Obligations, written by

1 an insurer whose policies of insurance, or issued by a Credit Source whose Credit  
2 Facility, would not adversely affect the rating of the System Obligations by either  
3 Moody's or S&P if the Bonds are then rated by Moody's or S&P. At the time of the  
4 issuance of such policy, such insurer or the component insurance companies thereof  
5 or the obligations thereof shall have received the highest policy claims rating  
6 accorded insurers by the A. M. Best Company or any comparable service and either  
7 of the two highest rating categories of Moody's or S&P if the Bonds are then rated by  
8 Moody's or S&P.

9 S&P. S&P Global Ratings, a division of S&P Global Inc., its  
10 successors and their assigns, and, if such corporation does not provide a rating for  
11 the Bonds, "S&P" shall be deemed to refer to any other nationally recognized  
12 securities agency rating the Bonds.

13 SALE CERTIFICATE. One or more certificates executed by the Chief  
14 Financial Officer or other Authorized Officer dated on or before the date of delivery  
15 of the Bonds, setting forth the following final terms of the Bonds: (i) the interest and  
16 principal payment dates; (ii) the principal amounts, denominations and maturity  
17 amortization; (iii) the sale prices; (iv) the interest rate or rates; (v) the interest  
18 payment periods; (vi) the redemption and tender provisions; (vii) the creation of any  
19 capitalized interest fund, including the size and funding of such fund(s); (viii) the  
20 amount of underwriting discount, if any; and (ix) the final terms of agreements, if any,  
21 with agents or service providers required for the purchase, sale, issuance and  
22 delivery of the Bonds, all subject to the parameters and conditions contained in this  
23 Bond Ordinance.

24 SENIOR OBLIGATIONS. The Series 2009A-1 Bonds, the Drinking  
25 Water State Revolving Fund Loan Agreement (2009), the Public Project Revolving  
26 Fund Loan Agreement (2011), the Series 2013A&B Bonds, the Series 2014A Bonds,  
27 the Series 2015 Bonds, the Series 2017 Bonds, the Drinking Water State Revolving  
28 Fund Loan Agreement #DW-4200 (2018), the Drinking Water State Revolving Fund  
29 Loan Agreement #DW-4202 (2018), the Series 2018 Bonds, and obligations related  
30 thereto designated as Senior Obligations, in any ordinance or resolution of the Water  
31 Authority relating to those bonds, and any other System Obligations issued with a

1 lien on the Net Revenues on a parity with the lien of the Outstanding Senior  
2 Obligations on Net Revenues.

3           SERIES 2009A-1 BONDS. The Senior Obligations designated as  
4 “Albuquerque Bernalillo County Water Utility Authority Joint Water and Sewer  
5 System Improvement Revenue Bonds, Series 2009A-1” in the original principal  
6 amount of \$135,990,000, authorized and issued pursuant to Ordinance No. O-09-1  
7 and Resolution No. R-09-7 constituting a senior lien on the Net Revenues.

8           SERIES 2013A&B BONDS. The Senior Obligations designated as the  
9 “Albuquerque Bernalillo County Water Utility Authority Joint Water and Sewer  
10 System Improvement Revenue Bonds, Series 2013A” and the “Albuquerque  
11 Bernalillo County Water Utility Authority Joint Water and Sewer System Refunding  
12 Revenue Bonds, Series 2013B” in the combined original principal amount of  
13 \$118,215,000, authorized and issued pursuant to Ordinance No. O-13-2 and  
14 Resolution R-13-13 constituting a senior lien on the Net Revenues.

15           SERIES 2014A BONDS. The Senior Obligations designated as the  
16 “Albuquerque Bernalillo County Water Utility Authority Senior Lien Joint Water and  
17 Sewer System Refunding Revenue Bonds, Series 2014A” in the original principal  
18 amount of \$97,270,000, authorized and issued pursuant to Ordinance No. F/S O-14-  
19 2 and Resolution F/S R-14-10 constituting a senior lien on the Net Revenues.

20           SERIES 2014B BONDS. The Subordinate Obligations designated as  
21 the “Albuquerque Bernalillo County Water Utility Authority Subordinate Lien Joint  
22 Water and Sewer System Refunding Revenue Bonds, Series 2014B” in the original  
23 principal amount of \$87,005,000, authorized and issued pursuant to Ordinance No.  
24 F/S O-14-2 and Resolution F/S R-14-10 constituting a subordinate lien on the Net  
25 Revenues.

26           SERIES 2015 BONDS. The Senior Obligations designated as the  
27 “Albuquerque Bernalillo County Water Utility Authority Senior Lien Joint Water and  
28 Sewer System Refunding and Improvement Revenue Bonds, Series 2015” in the  
29 original principal amount of \$211,940,000, authorized and issued pursuant to  
30 Ordinance No. O-15-2 and Resolution F/S R-15-6 constituting a senior lien on the  
31 Net Revenues.

1               SERIES 2017 BONDS.    The Senior Obligations designated as the  
2    “Albuquerque Bernalillo County Water Utility Authority Senior Lien Joint Water and  
3    Sewer System Refunding and Improvement Revenue Bonds, Series 2017” in the  
4    original principal amount of \$87,970,000, authorized and issued pursuant to  
5    Ordinance No. O-16-2 and Resolution F/S R-16-13 constituting a senior lien on the  
6    Net Revenues.

7               SERIES 2018 BONDS DEBT SERVICE ACCOUNT. An account of the  
8    Debt Service Fund established for the deposit of amounts necessary to pay the Debt  
9    Service Requirements on the Bonds.

10              SERIES 2018 BONDS ACQUISITION ACCOUNT. An account of the  
11    Acquisition Fund established for the deposit of the portion of the proceeds of the  
12    Series 2018 Bonds to finance the Project.

13              STATE. The State of New Mexico.

14              SUBORDINATE OBLIGATIONS. The Drinking Water State Revolving  
15    Fund Loan Agreement (2008), the Series 2014B Bonds, and all other bonds and  
16    other obligations of the Water Authority now or hereafter issued with a lien on the  
17    Net Revenues subordinate to the lien of Senior Obligations and superior to the lien  
18    of the Super Subordinated Obligations on the Net Revenues.

19              SUPER SUBORDINATED OBLIGATIONS. All other bonds and other  
20    obligations of the Water Authority hereafter issued with a lien on the Net Revenues  
21    subordinate to the liens of the Senior Obligations and the Subordinate Obligations  
22    on the Net Revenues.

23              SYSTEM. The public utility owned by the Water Authority and  
24    designated as the Water Authority’s water system and sanitary sewer system  
25    (continued as a joint utility system in Section 4 of this Bond Ordinance) consisting of  
26    all properties, real, personal, mixed or otherwise, now owned or hereafter acquired  
27    by the Water Authority, through purchase, construction or otherwise, including all  
28    extensions, enlargements and improvements of or to the water and sanitary sewer  
29    system and used in connection therewith or relating thereto, and any other related  
30    activity or enterprise of the Water Authority designated by the Board as part of the

1 water and sanitary sewer system, whether situated within or without the  
2 geographical limits of the Water Authority.

3           SYSTEM OBLIGATIONS. All bonds and other similar indebtedness  
4 payable solely or primarily from Net Revenues, including, without limitation, the  
5 Senior Obligations, the Subordinate Obligations and the Super Subordinated  
6 Obligations.

7           UNDERWRITERS. J.P. Morgan Securities LLC and Robert W. Baird &  
8 Co., collectively, as the original purchasers of the Bonds.

9           VARIABLE RATE OBLIGATIONS. System Obligations, including  
10 reimbursement obligations pursuant to a Credit Facility, the interest rate on which is  
11 subject to change from time to time.

12           WATER AUTHORITY. The Albuquerque Bernalillo County Water  
13 Utility Authority created by Section 72-1-10 NMSA 1978 operating under the name  
14 Albuquerque Bernalillo County Water Utility Authority.

15           RULES OF CONSTRUCTION. For purposes of this Bond Ordinance,  
16 unless otherwise expressly provided or unless the context requires otherwise:

17           (1) All references in this Bond Ordinance to designated  
18 Sections and other subdivisions are to the designated Section and other  
19 subdivisions of this Bond Ordinance.

20           (2) The words “herein”, “hereof”, “hereunder”, and “herewith”  
21 and other words of similar import in this Bond Ordinance refer to this Bond  
22 Ordinance, as a whole, and not to any particular Section or other subdivision.

23           (3) All accounting terms not otherwise defined in this Bond  
24 Ordinance have the meanings assigned to them in accordance with generally  
25 accepted accounting principles.

26           (4) Words of the masculine gender shall be deemed and  
27 construed to include correlative words of the feminine and neuter genders.

28           (5) The headings used in this Bond Ordinance are for  
29 convenience of reference only and shall not define or limit the provisions of this  
30 Bond Ordinance.

31           (6) Terms in the singular include the plural and vice versa.

1           Section 2.    RATIFICATION. All actions previously taken (not inconsistent  
2 with the provisions of this Bond Ordinance) by the Board and the officers of the  
3 Water Authority, directed toward the authorization, pledge, collection and distribution  
4 of the Net Revenues, the Project, and the authorization, issuance and sale of the  
5 Bonds are ratified, approved and confirmed.

6           Section 3.    FINDINGS.

7                   (A)    The Water Authority declares that it has considered all relevant  
8 information and data and finds that the issuance of the Bonds in one or more series  
9 under the Act in an aggregate principal amount not to exceed \$83,000,000 to  
10 finance the Project is necessary and in the interest of the public health, safety and  
11 welfare of the residents of the geographic area served by the Water Authority.

12                   (B)    The Water Authority will finance the Project with the proceeds of  
13 the Bonds, together with other funds of the Water Authority, if necessary.

14                   (C)    It is economically feasible to accomplish the Project by the  
15 issuance of the Bonds.

16                   (D)    The forms of the Bond Purchase Agreement, Continuing  
17 Disclosure Undertaking and Preliminary Official Statement as presented to the  
18 Board, and the sale of the Bonds to the Underwriters within the parameters set forth  
19 in this Bond Ordinance are hereby approved by the Board with the approval of the  
20 final terms of the Bonds to be accepted in the Sale Certificate and final forms of the  
21 Bond Purchase Agreement, Preliminary Official Statement, Continuing Disclosure  
22 Undertaking delegated to the Delegate or her designee as permitted by Section 6-  
23 14-10.2 NMSA 1978. The use and distribution of the Preliminary Official Statement  
24 and Official Statement by the Underwriters in connection with the sale of the bonds  
25 to the public are hereby ratified, authorized, approved and acknowledged.

26           Section 4.    JOINT UTILITY. The System shall continue to be operated and  
27 maintained as a joint public utility.

28           Section 5.    LIABILITY FOR OUTSTANDING SYSTEM OBLIGATIONS.  
29 The Water Authority hereby confirms that, in accordance with Section 72-1-10  
30 NMSA 1978, the Water Authority is solely responsible for paying the Debt Service  
31 Requirements for all Outstanding System Obligations.



1           Section 6.    AUTHORIZATION OF PROJECT; EXPENSES.

2                   (A)   PROJECT. The Project is hereby authorized and approved.

3                   (B)   EXPENSES. The payment of Expenses is authorized and  
4 approved.

5                   (C)   PROCEEDS. The net proceeds of the Bonds will be used  
6 exclusively to finance the Project including the payment of Expenses.

7           Section 7.   THE BONDS.

8                   (A)   AUTHORIZATIONS. This Bond Ordinance has been adopted  
9 by the affirmative vote of at least a majority of all of the members of the Board. For  
10 the purpose of protecting the public health, conserving the property, protecting the  
11 general welfare and prosperity of the citizens of the geographic area served by the  
12 Water Authority, and completing the Project, it is necessary that the Water Authority  
13 issue, and the Water Authority is hereby authorized to issue, pursuant to the Act, its  
14 negotiable, fully registered bonds designated as the "Albuquerque Bernalillo County  
15 Water Utility Authority Senior Lien Joint Water and Sewer System Improvement  
16 Revenue Bonds, Series 2018."

17           The Bonds shall be issued in one or more series in the aggregate principal  
18 amount not to exceed \$83,000,000, to be used, with other available moneys of the  
19 Water Authority, if any, to finance the Project, including the payment of Expenses.

20                   (B)   DETAILS OF THE BONDS.

21                   (1)   General. The Bonds shall be issued as fully registered  
22 bonds in one or more series and shall be issued to provide funds, together with other  
23 available funds of the Water Authority, if any, to finance the Project and to pay  
24 Expenses. The Bonds shall be dated the date of issuance of the Bonds (the "Series  
25 Date"), and shall be issued in fully registered form only, without coupons, and when  
26 issued will be registered in the name of Cede & Co., as nominee of The Depository  
27 Trust Company ("DTC"), New York, New York, as registered owner of the Bonds, all  
28 as provided in the Bond Ordinance.

29                   (2)   Interest Payment Date; Interest Rates; Maturities. The  
30 Bonds shall bear interest from the most recent date to which interest has been paid  
31 or provided for or if no interest has been paid or provided for from the date of the

1 Bonds until maturity or until redeemed if called for redemption prior to maturity. The  
2 Bonds shall bear interest payable on each Interest Payment Date, beginning  
3 January 1, 2019, at the rates per annum, maturing in the years and amounts, set  
4 forth in the Bond Purchase Agreement and the Sale Certificate.

5 (3) Computation of Interest. Interest on Bonds will be  
6 computed on the basis of a 360-day year consisting of twelve 30-day months. If,  
7 upon presentation at maturity or for prior redemption, payment of the principal  
8 amount of any Bond is not made as required by this Bond Ordinance, interest on the  
9 unpaid principal amount of such Bond shall continue to accrue at the interest rate  
10 stated or described in that Bond until the principal amount of that Bond is paid in full.

11 (4) Priority of Lien on the Net Revenues. The Bonds shall be  
12 issued with a lien on the Net Revenues on a parity with the lien of the Senior  
13 Obligations on the Net Revenues and a lien superior to the liens of the Subordinate  
14 Obligations and the Super Subordinated Obligations on the Net Revenues.

15 (C) BOOK-ENTRY. The Bonds shall be issued or registered in  
16 book entry form with no physical distribution of bond certificates made to the public,  
17 with a Depository acting as securities depository for the Bonds. A single certificate  
18 for each maturity of the Bonds will be delivered to the Depository and immobilized in  
19 its custody. The book-entry system will evidence ownership of the Bonds in  
20 Authorized Denominations, with transfer of ownership effected on the books of the  
21 Depository and its participants ("Participants"). As a condition to delivery of the  
22 Bonds, the Underwriters will, immediately after acceptance of delivery thereof,  
23 deposit, or cause to be deposited, Bond certificates with the Depository, registered  
24 in the name of the Depository or its nominee. Principal of, premium, if any, and  
25 interest on the Bonds will be paid to the Depository or its nominee as the registered  
26 Owner of the Bonds. The transfer of principal and interest payments to Participants  
27 will be the responsibility of the Depository; the transfer of principal and interest  
28 payments to the beneficial owners of the Bonds (the "Beneficial Owners") will be the  
29 responsibility of such Participants and other nominees of Beneficial Owners  
30 maintaining a relationship with Participants (the "Indirect Participants"). The Water  
31 Authority will not be responsible or liable for maintaining, supervising or reviewing

1 the records maintained by the Depository, Participants or Indirect Participants.

2 If (i) the Bonds are not eligible for the services of the Depository, (ii) the  
3 Depository determines to discontinue providing its services or (iii) the Water  
4 Authority determines that a continuation of the system of book-entry transfers  
5 through the Depository ceases to be beneficial to the Water Authority or the  
6 Beneficial Owners, the Water Authority will either identify another Depository or  
7 certificates will be delivered to Beneficial Owners or their nominees and the  
8 Beneficial Owners or their nominees, upon authentication of Bonds and registration  
9 of the Bonds in the Beneficial Owners' or nominees' names, will become the Owners  
10 for all purposes. In either such event, the Water Authority shall mail an appropriate  
11 notice to the Depository for notification to Participants, Indirect Participants and  
12 Beneficial Owners of the substitute Depository or the issuance of bond certificates to  
13 Beneficial Owners or their nominees, as applicable.

14 Authorized Officers are authorized to sign agreements with Depositories  
15 relating to the matters set forth in this Section.

16 Notwithstanding any other provision of the Bond Legislation to the contrary,  
17 so long as all the Bonds are registered in the name of the Depository or its nominee,  
18 all payments with respect to principal of, redemption premium, if any, and interest on  
19 the Bonds, and all notices, shall be made and given by the Paying Agent or the  
20 Water Authority to the Depository as provided in the Bond Legislation and by the  
21 Depository to its Participants and by the Participants or Indirect Participants to the  
22 Beneficial Owners.

23 (D) PAYMENT OF THE BONDS. The principal of and premium, if  
24 any, on the Bonds shall be payable upon presentation and surrender of the Bonds at  
25 the principal office of the Paying Agent at or after their maturity or prior redemption  
26 dates. Interest on the Bonds shall be payable by check or draft mailed to the owners  
27 (or by such other arrangement as may be mutually agreed to by the Paying Agent  
28 and an Owner). The Owner shall be deemed to be that person or entity shown on  
29 the registration books for the Bonds maintained by the Registrar at the address  
30 appearing in the registration books at the close of business on the applicable Record  
31 Date. Interest which is not timely paid or provided for shall cease to be payable to

1 the Owner of the applicable Bonds (or of one or more predecessor Bonds) as of the  
2 Record Date, but shall be payable to the Owners of those Bonds (or of one or more  
3 predecessor Bonds) at the close of business on a special record date for the  
4 payment of the overdue interest. The special record date shall be fixed by the  
5 Paying Agent and Registrar whenever money becomes available for payment of the  
6 overdue interest and notice of the special record date shall be given to the Owners  
7 of the Bonds not less than ten days prior to that date. Payment shall be made in the  
8 coin or currency of the United States of America that is at the time of payment legal  
9 tender for the payment of public and private debts. If the principal amount of any  
10 Bond presented for payment remains unpaid at maturity, the unpaid principal shall  
11 bear interest at the rate designated in that Bond. Payments of Bonds shall be made  
12 without deduction for exchange or collection charges.

13 The Water Authority shall transfer, or cause to be transferred, funds to the  
14 Paying Agent on a timely basis so that the Paying Agent may make payments of the  
15 principal of, premium, if any, and interest on the Bonds, when due, to the Owners  
16 and comply with the requirements of any Credit Source. The Water Authority shall  
17 notify the Paying Agent if there is or will be an insufficient amount of money of the  
18 Water Authority legally available to pay principal and interest on the Bonds when  
19 due.

20 Section 8. APPOINTMENT OF PAYING AGENT AND REGISTRAR. The  
21 Chief Financial Officer of the Water Authority is appointed as the initial Paying Agent  
22 and Registrar. The Paying Agent, Authenticating Agent and Registrar shall be the  
23 same person.

24 Section 9. REDEMPTION OF BONDS.

25 (A) GENERAL. The Bonds may be subject to redemption prior to  
26 their respective maturities on and after the date specified in the Sale Certificate, at  
27 the option of the Water Authority in any order of maturity as determined by the Water  
28 Authority, at a redemption price equal to 100% of the principal amount of the Bonds  
29 to be redeemed, plus accrued interest to the date of redemption.

30 (B) REDEMPTION CONDITIONAL. Unless money sufficient to pay  
31 the principal of and interest on the Bonds to be redeemed at the option of the Water

1 Authority is received by the Paying Agent prior to the giving of notice of redemption  
2 in accordance with Section 9.(E), that notice shall state that the redemption is  
3 conditional upon the receipt of that money by the Paying Agent by 2:00 p.m. on the  
4 redemption date. If an amount sufficient to redeem all Bonds called for redemption  
5 is not received by that time (i) the Paying Agent shall redeem only those Bonds for  
6 which the redemption price was received and the Bonds to be redeemed shall be  
7 selected in the manner set forth in Section 9.(D) and (ii) the redemption notice shall  
8 have no effect with respect to those Bonds for which the redemption price was not  
9 received and those Bonds shall not be redeemed. The Registrar shall give notice to  
10 the Owners of the Bonds which will not be redeemed in the manner in which the  
11 notice of redemption was given, identifying the Bonds which will not be redeemed,  
12 stating that the redemption did not take place with respect to those Bonds, and the  
13 Registrar shall promptly return those Bonds to the Owners thereof as shown on the  
14 Bonds register.

15 (C) CANCELLATION AND CREDIT. At its option, to be exercised  
16 on or before the 45th day next preceding any mandatory sinking fund redemption  
17 date, the Water Authority may irrevocably elect to (a) deliver to the Paying Agent for  
18 cancellation Bonds of the same series, interest rate and maturity in any aggregate  
19 principal amount and/or (b) receive a credit in respect of its sinking fund redemption  
20 obligation for any Bonds of the same series, interest rate and maturity which, prior to  
21 said date, have been redeemed (other than through the operation of the sinking  
22 fund) and canceled by the Paying Agent and not theretofore applied as a credit  
23 against any sinking fund redemption obligation. Each Bond delivered or previously  
24 redeemed shall be credited by the Paying Agent as directed by the Water Authority  
25 at the principal amount thereof in Authorized Denominations against the amounts  
26 required to be paid by the Water Authority on the designated mandatory sinking fund  
27 redemption date, and the principal amount of Bonds to be redeemed by operation of  
28 such sinking fund on such date shall be reduced by that principal amount.

29 (D) PARTIAL REDEMPTION. If less than all of the Bonds subject  
30 to redemption are to be redeemed at any one time, the Bonds to be redeemed shall  
31 be selected by the Registrar in the manner and from the maturities designated by

1 the Water Authority. If less than all of the Bonds of a given maturity are redeemed,  
2 the Bonds to be redeemed within that maturity shall be selected by lot in such  
3 manner as determined by the Registrar. Part of a Bond may be redeemed in an  
4 Authorized Denomination if the amount of that Bond which remains outstanding is  
5 also in an Authorized Denomination.

6 (E) NOTICE OF REDEMPTION. Notice of redemption of Bonds  
7 shall be given by the Registrar by sending a copy of such notice by Electronic  
8 Means or by first-class, postage prepaid mail not less than 30 days prior to the  
9 redemption date to the Owner of each Bond, or portion thereof, to be redeemed at  
10 the address shown as of the fifth day prior to the mailing of notice on the registration  
11 books kept by the Registrar and to the Credit Source for the Bonds, if any. The  
12 Water Authority shall give the Registrar notice of Bonds to be called for optional  
13 redemption at least fifteen (15) days prior to the date that the Registrar is required to  
14 give Owners notice of redemption specifying the Bonds or the principal amount  
15 thereof to be called for redemption and the applicable redemption date. If the Water  
16 Authority has not designated the Bonds to be called for redemption on the dates  
17 specified above, the Registrar shall select the Bonds to be redeemed by lot. Neither  
18 the Water Authority's failure to give such notice, the Registrar's failure to give such  
19 notice to the registered Owner of any Bonds or to any Credit Source, or any defect  
20 thereon, nor the failure of the Depository to notify a Participant or any Participant or  
21 Indirect Participant to notify a Beneficial Owner of any such redemption, shall affect  
22 the validity of the proceedings for the redemption of any Bonds for which proper  
23 notice was given.

24 Notices shall specify the CUSIP numbers and maturity date or dates of the  
25 Bonds to be redeemed (if less than all Bonds are to be redeemed), the date of or  
26 principal amounts of any Bonds to be redeemed in part, the date fixed for  
27 redemption, and shall further state that, subject to the terms of Section 9.(B), if  
28 applicable, on such redemption date there will become and be due and payable  
29 upon each Bond or part thereof to be redeemed at the office of the Paying Agent the  
30 principal amount thereof to be redeemed plus accrued interest, if any, to the  
31 redemption date and the stipulated premium, if any, and that from and after such

1 date, interest will cease to accrue on those Bonds. In addition to the foregoing  
2 notice, the notice of redemption given by the Registrar shall include such additional  
3 information, and the Registrar shall comply with any other terms regarding  
4 redemption, as are required by any applicable agreement with a Depository.

5 Notice having been given in the manner provided above, subject to the terms  
6 of Section 9.(B), the Bonds or part thereof called for redemption shall become due  
7 and payable on the redemption date designated and the Bonds or part thereof to be  
8 redeemed, for which there was sufficient money on deposit with the Paying Agent,  
9 shall not be deemed to be Outstanding and shall cease to bear or accrue interest  
10 from and after such redemption date. Upon presentation of a Bond to be redeemed  
11 at the office of the Paying Agent on or after the redemption date or, so long as the  
12 book-entry system is used for determining beneficial ownership of Bonds, upon  
13 satisfaction of the terms of any other arrangement between the Paying Agent and  
14 the Depository, the Paying Agent will pay such Bond, or portion thereof called for  
15 redemption.

16 The Registrar shall also send a copy of the notice of redemption by Electronic  
17 Means, first class mail or overnight delivery to each Depository. Failure to provide  
18 notice to any Depository shall not affect the validity of proceedings for the  
19 redemption of Bonds.

20 The Water Authority is not required to notify the Registrar of mandatory  
21 sinking fund redemption of Bonds.

22 (F) CANCELLATION. All Bonds which have been redeemed or  
23 received for transfer shall be canceled and destroyed by the Paying Agent and shall  
24 not be reissued and a counterpart of the certificate of destruction shall be furnished  
25 by the Paying Agent to the Water Authority.

26 Section 10. REGISTRATION, TRANSFER, EXCHANGE AND OWNERSHIP  
27 OF BONDS.

28 (A) REGISTRATION AND EXCHANGE. The Water Authority shall  
29 cause books for registration, transfer and exchange of the Bonds to be kept at the  
30 principal office of the Registrar. Upon surrender for transfer or exchange of any  
31 Bonds at the principal office of the Registrar duly endorsed by the Owner or his

1 attorney duly authorized in writing, or accompanied by a written instrument or  
2 instruments of transfer or exchange in form satisfactory to the Registrar and properly  
3 executed, the Water Authority shall execute and the Registrar shall authenticate and  
4 deliver in the name of the transferee or Owner replacement Bonds of the same  
5 maturity, interest rate and aggregate principal amount in Authorized Denominations.

6 (B) OWNERS OF BONDS. The person in whose name any Bond is  
7 registered shall be deemed and regarded as its absolute Owner for all purposes,  
8 except as may otherwise be provided with respect to the payment of overdue  
9 interest on the Bonds in Section 7.(D). Payment of either the principal of or interest  
10 on any Bond shall be made only to or upon the order of its Owner or his legal  
11 representative. All such payments shall be valid and effectual to satisfy and  
12 discharge the liability on Bonds to the extent of the amount paid.

13 (C) LOST BONDS. If any Bond is lost, stolen, destroyed or  
14 mutilated, the Registrar shall, upon receipt of such Bond, if mutilated, and the  
15 evidence, information or indemnity which the Registrar may reasonably require, if  
16 lost, stolen, or destroyed, authenticate and deliver a replacement Bond of the same  
17 aggregate principal amount, maturity and interest rate, bearing a number or numbers  
18 not then outstanding. If any lost, stolen, destroyed or mutilated Bond has matured or  
19 been called for redemption, the Registrar may direct the Paying Agent to pay that  
20 Bond in lieu of replacement.

21 (D) CHARGES TO OWNERS. Exchanges and transfers of Bonds  
22 shall be made without charge to the Owner or any transferee except that the  
23 Registrar may make a charge sufficient to reimburse the Registrar for any tax, fee or  
24 other governmental charge required to be paid with respect to that transfer or  
25 exchange.

26 (E) LIMITATIONS ON TRANSFER. Except for any Bond which  
27 may be and is tendered for purchase, the Registrar shall not be required to transfer  
28 or exchange (a) any Bond during the five-day period preceding the mailing of notice  
29 calling Bonds, as applicable, for redemption and (b) any Bond called for redemption.

30 Section 11. FILING OF SIGNATURES. Prior to the execution of any Bond  
31 pursuant to Sections 6-9-1 to 6-9-6 NMSA 1978, as amended, the Chair, the Vice



1 Chair, the Executive Director and the Secretary of the Water Authority shall each file  
2 with the New Mexico Secretary of State his or her manual signature certified by him  
3 or her under oath; provided that filing shall not be necessary for any officer where  
4 any previous filing may have legal application to the Bonds.

5 Section 12. EXECUTION AND CUSTODY OF BONDS.

6 (A) EXECUTION. The Bonds shall be signed with the facsimile or  
7 manual signature of the Chair and the manual or facsimile signature of the Secretary  
8 of the Water Authority. Bonds when authenticated and bearing the manual or  
9 facsimile signatures of the officers in office at the time of their signing shall be valid  
10 and binding obligations of the Water Authority, notwithstanding that before delivery  
11 of those Bonds, any or all of the persons who executed those Bonds shall have  
12 ceased to fill their respective offices. The Chair, Vice Chair, Executive Director and  
13 Board Secretary, at the time of the execution of the Bonds and the signature  
14 certificate, each may adopt as and for his or her own facsimile signature, the  
15 facsimile signature of his or her predecessor in office if such facsimile signature  
16 appears upon any of the Bonds or certificates pertaining to the Bonds. No manual  
17 or facsimile signature of an officer of the Water Authority or an Authenticating Agent  
18 shall be required if the Bonds are issued in book-entry form without the delivery of  
19 any physical securities.

20 (B) CUSTODY. The Authenticating Agent or its designee shall hold  
21 in custody all Bonds signed and attested by the Chair, Vice Chair and Executive  
22 Director or Secretary until ready for delivery to the Underwriters, transferee or  
23 Owner. The Water Authority shall, from time to time, at the written request of the  
24 Authenticating Agent, provide the Authenticating Agent an adequate supply of  
25 Bonds.

26 (C) AUTHENTICATION. No Bond shall be valid or obligatory for  
27 any purpose unless the certificate of authentication has been duly executed by the  
28 Authenticating Agent. The Authenticating Agent's certificate of authentication shall  
29 be deemed to have been duly executed if manually signed by an Authorized Officer  
30 of the Authenticating Agent, but it shall not be necessary that the same officer sign  
31 the certificate of authentication on all Bonds.

1           Section 13. NEGOTIABILITY; PREFERENCE. Except as otherwise stated  
2 in this Bond Ordinance, the Bonds shall be fully negotiable and shall have all the  
3 qualities of negotiable paper and the Owners shall possess all rights enjoyed by the  
4 holders of negotiable instruments under the provisions of the State's Uniform  
5 Commercial Code -- Investment Securities. All of the Bonds shall in all respects, as  
6 to each other, be equally and ratably secured, without preference, priority or  
7 distinction on account of the dates or the actual times of their issuance or maturities.

8           Section 14. SPECIAL LIMITED OBLIGATIONS. All of the Bonds and all  
9 payments of principal of, premium, if any, and interest on Bonds, and the fees, costs,  
10 expenses and other obligations of the Water Authority under the Bond Legislation,  
11 the Continuing Disclosure Undertaking, the Bond Purchase Agreement, or any  
12 Credit Facility, together with the interest accruing thereon, shall be special limited  
13 obligations of the Water Authority and shall be payable, collectible or reimbursable  
14 solely from the Net Revenues, Bond proceeds, the earnings thereon and, if a Bond  
15 Insurance Policy is issued for the payment of the Bonds, from the proceeds of the  
16 policy. The Owners, any Credit Source and obligees under the Bond Legislation or  
17 any Credit Facility may not look to any general or other municipal fund for the  
18 payment of the principal of, premium, if any, or interest on such obligations or such  
19 fees, costs and expenses, except the designated special funds specifically pledged  
20 for the Bonds as set forth in or permitted by this Section. None of the Bonds, the  
21 Bond Legislation, the Continuing Disclosure Undertaking, or any Credit Facility or  
22 such costs, fees and expenses of the Water Authority shall constitute an  
23 indebtedness of the Water Authority within the meaning of any constitutional, charter  
24 or statutory provision or limitation, nor shall they be considered or held to be general  
25 obligations of the Water Authority, and each Bond shall recite that it is payable and  
26 collectible solely from the Net Revenues, the proceeds of the Bonds, and, if a Bond  
27 Insurance Policy is issued for the payment of the Bonds, from the proceeds of that  
28 policy and that the Owners may not look to any general funds of the Water Authority  
29 or any City or County fund for the payment of the principal of, premium, if any, or  
30 interest on the Bonds.

31           Section 15. SALE OF BONDS; DELEGATION OF AUTHORITY TO

1 APPROVE FINAL TERMS WITHIN THE PARAMETERS SET FORTH HEREIN.

2 The sale of the Bonds in a negotiated sale to the Underwriters within the parameters  
3 set forth below and as described in the Sale Certificate and Bond Purchase  
4 Agreement is hereby approved. After the Bonds have been duly executed and  
5 authenticated and upon receipt of the purchase price therefor, the Bonds shall be  
6 delivered to the Underwriters by an Authorized Officer in accordance with the Bond  
7 Purchase Agreement. The final terms of the Bonds shall be within the parameters  
8 set forth below:

9 (a) The proceeds of the Bonds shall be used for the Project.

10 (b) The maximum par amount of the Bonds shall not be more than  
11 \$83,000,000.

12 (c) The final maturity of the Bonds shall be no later than July 1, 2031.

13 (d) The maximum interest rate on the Bonds shall be no greater than 12%  
14 per annum.

15 (e) The Bonds shall be secured by a senior lien on and shall be payable  
16 solely from the Net Revenues of the System.

17 (f) The Bonds shall be sold pursuant to a negotiated sale with the  
18 Underwriters.

19 (g) The Underwriters' discount shall not exceed 1% of the aggregate  
20 principal amount of the Bonds.

21 (h) The Bonds may be subject to optional and/or mandatory sinking fund  
22 redemption as set forth in the Sale Certificate.

23 (i) The Bonds and Bond Purchase Agreement shall be in substantially the  
24 forms submitted to the Board with the adoption of this Ordinance.

25 The Delegate is hereby authorized pursuant to this Ordinance to determine  
26 the final terms of the Bonds as permitted by Section 6-14-10.2 NMSA 1978 and to  
27 execute a Sale Certificate and a Bond Purchase Agreement with the Underwriters in  
28 conformance with these parameters.

29 Section 16. FORM OF BONDS. The form of the Bonds shall be  
30 substantially as set forth herein, with such terms and provisions as are not  
31 inconsistent with the Bond Legislation.

[Form of Bond]

**UNITED STATES OF AMERICA**

**STATE OF NEW MEXICO**

AS PROVIDED IN THE BOND LEGISLATION REFERRED TO HEREIN, UNTIL THE TERMINATION OF REGISTERED OWNERSHIP OF ALL OF THE BONDS THROUGH THE DEPOSITORY TRUST COMPANY (TOGETHER WITH ANY SUCCESSOR SECURITIES DEPOSITORY APPOINTED PURSUANT TO THE RESOLUTION, "DTC"), AND NOTWITHSTANDING ANY OTHER PROVISION OF THE BOND LEGISLATION TO THE CONTRARY, THE PRINCIPAL AMOUNT OUTSTANDING UNDER THIS BOND MAY BE PAID OR REDEEMED WITHOUT SURRENDER HEREOF TO THE REGISTRAR. DTC OR A TRANSFEREE OR ASSIGNEE OF DTC OF THIS BOND MAY NOT RELY UPON THE PRINCIPAL AMOUNT INDICATED HEREON AS THE PRINCIPAL AMOUNT HEREOF OUTSTANDING AND TO BE PAID. THE PRINCIPAL AMOUNT OUTSTANDING AND TO BE PAID ON THIS BOND SHALL FOR ALL PURPOSES BE THE AMOUNT INDICATED ON THE BOOKS OF THE REGISTRAR.

UNLESS THIS BOND IS PRESENTED BY AN AUTHORIZED REPRESENTATIVE OF DTC TO THE REGISTRAR FOR REGISTRATION OF TRANSFER, EXCHANGE OR PAYMENT, AND ANY BOND ISSUED IS REGISTERED IN THE NAME OF CEDE & CO. OR SUCH OTHER NAME AS REQUESTED BY AN AUTHORIZED REPRESENTATIVE OF DTC AND ANY PAYMENT IS MADE TO CEDE & CO., ANY TRANSFER, PLEDGE OR OTHER USE HEREOF FOR VALUE OR OTHERWISE BY OR TO ANY PERSONS IS WRONGFUL SINCE THE REGISTERED OWNER HEREOF, CEDE & CO., HAS AN INTEREST HEREIN.

**ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY**  
**SENIOR LIEN JOINT WATER AND SEWER SYSTEM**  
**IMPROVEMENT REVENUE BONDS**  
**SERIES 2018**

**Bond No. R-\_\_\_\_\_ \$\_\_\_\_\_**

<b>INTEREST RATE</b>	<b>MATURITY DATE</b>	<b>DATE OF BOND</b>	<b>CUSIP</b>
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1 \_\_\_\_% per annum \_\_\_\_\_, 20\_\_\_\_ \_\_\_\_\_, 20\_\_\_\_ \_\_\_\_\_  
2

3       The Albuquerque Bernalillo County Water Utility Authority (the “Water  
4 Authority”), a legally and regularly created, established, organized and existing  
5 municipal utility under the general laws of the State of New Mexico, for value  
6 received, hereby promises to pay, solely from the special funds available for the  
7 purpose as hereinafter set forth, to Cede & Co. or registered assigns, no later than  
8 the Maturity Date stated above (unless this bond is called for prior redemption, in  
9 which case on such redemption date), upon presentation and surrender hereof at  
10 the principal office of the Chief Financial Officer of the Water Authority as paying  
11 agent, or any successor paying agent (the “Paying Agent”), the sum of  
12 \_\_\_\_\_ DOLLARS (\$\_\_\_\_\_) and to pay from said sources interest on the  
13 unpaid principal amount at the Interest Rate stated above on January 1, 2019, and  
14 on January 1 and July 1 of each year (each an “Interest Payment Date”) thereafter to  
15 its maturity, or until redeemed if called for redemption prior to maturity. This bond  
16 will bear interest from the most recent date to which interest has been paid or  
17 provided for or, if no interest has been paid or provided for, from its date. Interest on  
18 this bond is payable by check mailed to the registered owner hereof (or by such  
19 other arrangement as may be mutually agreed to by the Paying Agent and the  
20 registered owner) as shown on the registration books for this issue maintained by  
21 the Chief Financial Officer of the Water Authority as registrar, or any successor  
22 registrar (the “Registrar”) at the address appearing therein at the close of business  
23 on the fifteenth day of the calendar month next preceding the Interest Payment Date  
24 (the “Record Date”). Any interest which is not timely paid or duly provided for shall  
25 cease to be payable to the owner hereof as of the Record Date but shall be payable  
26 to the owner hereof at the close of business on a special record date to be fixed by  
27 the Paying Agent for the payment of interest. The special record date shall be fixed  
28 by the Paying Agent whenever moneys become available for payment of the  
29 overdue interest, and notice of the special record date shall be given to owner of the  
30 Bonds (defined below) as then shown on the Registrar’s registration books not less  
31 than ten days prior to the special record date. If, upon presentation at maturity or

1 redemption, payment of this bond is not made as herein provided, interest hereon  
2 shall continue at the Interest Rate stated above until the principal hereof is paid in  
3 full. The principal, premium, if any, and interest on this bond are payable in lawful  
4 money of the United States of America, without deduction for the services of the  
5 Paying Agent or the Registrar.

6 This bond is one of a duly authorized issue of fully registered bonds of the  
7 Water Authority in the principal amount of \$83,000,000, issued in denominations of  
8 \$5,000 or integral multiples thereof, designated as Albuquerque Bernalillo County  
9 Water Utility Authority Senior Lien Joint Water and Sewer System Improvement  
10 Revenue Bonds, Series 2018 (the "Bonds"), issued under and pursuant to  
11 Ordinance No. O-18-7 adopted September 19, 2018, Confirming Resolution No. R-  
12 18-20 adopted September 19, 2018 and the Sale Certificate dated October \_\_\_\_,  
13 2018 (collectively, the "Bond Legislation").

14 The Bonds are subject to prior redemption as more particularly described  
15 below:

16 Optional Redemption. Bonds maturing on and after July 1, \_\_ are subject to  
17 redemption on any date, in whole or in part, at the option of the Water Authority,  
18 prior to their respective maturities on or after July 1, \_\_\_\_ at a price equal to 100% of  
19 the principal amount of the Bonds redeemed, plus accrued interest to the date of  
20 redemption.

21 Notice of redemption of this bond, or any portion of this bond, will be given by  
22 providing at least 30 days prior written notice by Electronic Means or by first-class  
23 mail, postage prepaid, to the owner hereof at the address shown on the registration  
24 book as of the fifth day prior to the mailing of notice as provided in the Bond  
25 Legislation. Notice of redemption will specify the amount being redeemed, and shall  
26 further state that on such redemption date there will become and be due and  
27 payable upon each Bond to be redeemed at the office of the Paying Agent the  
28 principal amount thereof plus accrued interest to the redemption date and the  
29 stipulated premium, if any, and that from and after such date, the redemption  
30 amount having been deposited and notice having been given, interest will cease to  
31 accrue.

1 Books for the registration and transfer of the Bonds shall be kept by the  
2 Registrar. Upon the surrender for transfer or exchange of this bond at the principal  
3 office of the Registrar, duly endorsed or accompanied by an assignment duly  
4 executed by the registered owner or his attorney duly authorized in writing, the  
5 Registrar shall authenticate and deliver, not more than three (3) business days after  
6 receipt of the Bond or Bonds to be transferred, in the name of the transferee or  
7 owner a new Bond or Bonds in fully registered form of the same aggregate principal  
8 amount, maturity and interest rate. Exchanges and transfers of the Bonds shall be  
9 without charge to the owner or any transferee, but the Registrar may require the  
10 payment by the owner of any Bonds of any tax or other similar governmental charge  
11 required to be paid with respect to such exchange or transfer. The Registrar shall  
12 not be required (i) to transfer or exchange any Bond during the period of five days  
13 next preceding the mailing of notice calling any Bond for redemption, or (ii) to  
14 transfer or exchange any Bond or part thereof called for redemption. The Registrar  
15 will close books for change of registered owners' addresses on each Record Date;  
16 transfers will be permitted within the period from each Record Date to each interest  
17 payment date, but such transfers shall not include a transfer of accrued interest  
18 payable.

19 The person in whose name any Bond is registered on the registration books  
20 kept by the Registrar shall be deemed and regarded as the absolute owner thereof  
21 for the purpose of making payment thereof and for all other purposes except as may  
22 otherwise be provided with respect to payment of overdue interest in the Bond  
23 Legislation; and payment of or on account of either principal or interest on any Bond  
24 shall be made only to or upon the written order of the registered owner thereof or his  
25 legal representative. All such payments shall be valid and effectual to discharge the  
26 liability upon such Bond to the extent of the sum or sums so paid.

27 If any Bond shall be lost, stolen, destroyed or mutilated, the Registrar will,  
28 upon receipt of such Bond, if mutilated, and such evidence, information or indemnity  
29 relating thereto as the Registrar may reasonably require, if lost, stolen or destroyed,  
30 authenticate and deliver a replacement Bond or Bonds of a like aggregate principal  
31 amount and of the same maturity and interest rate, bearing a number or numbers

1 not contemporaneously outstanding. If such lost, stolen, destroyed or mutilated  
2 Bond shall have matured or have been called for redemption, the Registrar may  
3 direct the Paying Agent to pay such Bond in lieu of replacement.

4 This bond does not constitute an indebtedness of the Water Authority within  
5 the meaning of any constitutional or statutory provision or limitation, shall not be  
6 considered or held to be a general obligation of the Water Authority, and is payable  
7 and collectible solely from the Net Revenues (as defined in the Bond Legislation),  
8 and the bondholders may not look to any general or other Water Authority fund other  
9 than those described above for the payment of the interest and principal of this  
10 bond. Additional bonds may be issued and made payable from the Net Revenues  
11 upon satisfaction of the conditions set forth in the Bond Legislation, having a lien  
12 thereon either on a parity with or junior to the lien of the Bonds on the Net  
13 Revenues.

14 The Bonds are issued to provide funds for (i) acquiring additional System  
15 assets, and extending, repairing, replacing and improving the Water Authority's  
16 System and (ii) the payment of Expenses relating to the issuance of the Bonds.

17 The Water Authority covenants and agrees with the owner of this bond and  
18 with each and every person who may become the owner hereof that it will keep and  
19 perform all of the covenants of the Bond Legislation.

20 This bond is subject to the condition, and every owner hereof by accepting  
21 the same agrees with the obligor and every subsequent owner hereof, that the  
22 principal of and interest on this bond shall be paid, and this bond is transferable, free  
23 from and without regard to any equities, set-offs or crossclaims between the obligor  
24 and the original or any other owner hereof.

25 It is hereby certified that all acts and conditions necessary to be done or  
26 performed by the Water Authority or to have happened precedent to and in the  
27 issuance of the Bonds to make them legal, valid and binding special obligations of  
28 the Water Authority, have been performed and have happened as required by law,  
29 and that the Bonds do not exceed or violate any constitutional or statutory limitation  
30 of or pertaining to the Water Authority.



1 This bond shall not be valid or obligatory for any purpose until the  
2 Authenticating Agent shall have manually signed the Certificate of Authentication of  
3 this bond.

4 **IN WITNESS WHEREOF**, the Water Authority has caused this bond to be  
5 signed and executed on the Water Authority's behalf with the manual or facsimile  
6 signature of the Chair of the Board and to be countersigned with the manual or  
7 facsimile signature of the Secretary, all as of the Date of Bond.

8 **ALBUQUERQUE BERNALILLO COUNTY**  
9 **WATER UTILITY AUTHORITY**

10  
11 **By:** \_\_\_\_\_  
12 **Chair**

13  
14 **ATTEST:**

15 **By:** \_\_\_\_\_  
16 **Secretary**

17  
18 **[FORM OF CERTIFICATE OF AUTHENTICATION]**  
19

20 This is one of the Bonds described in the Bond Legislation, and this bond has  
21 been registered on the registration books kept by the undersigned as Registrar for  
22 the Bonds.

23 **CHIEF FINANCIAL OFFICER,**  
24 **ALBUQUERQUE BERNALILLO COUNTY**  
25 **WATER UTILITY AUTHORITY, AS**  
26 **REGISTRAR**

27  
28 **Dated:** \_\_\_\_\_

29 **By:** \_\_\_\_\_  
30 **Authorized Signature**

31 **[FORM OF ASSIGNMENT]**

FOR VALUE RECEIVED the undersigned hereby sells, assigns and transfers  
unto

\_\_\_\_\_  
(Social Security or Federal Taxpayer Identification Number)

\_\_\_\_\_  
(Please print or typewrite Name and Address, including Zip Code, of Assignee)

the within bond and all rights thereunder, and hereby irrevocably constitutes and  
appoints the Registrar under the Bond Legislation as Attorney to register the transfer  
of the within bond on the books kept for registration thereof, with full power of  
substitution in the premises.

Dated: \_\_\_\_\_

\_\_\_\_\_  
NOTICE: The signature of the  
registered owner to this assignment  
must correspond with the name as it  
appears on the face of the within  
bond in every particular, without  
alteration or enlargement or any  
change whatsoever.

Signature guaranteed by:

\_\_\_\_\_  
NOTICE: Signature guarantee  
should be made by a guarantor  
institution participating in the  
Securities Transfer Agents Medallion  
Program or in such other guarantee  
program acceptable to the Registrar.

**[END OF FORM OF BOND]**

Section 17. PERIOD OF IMPROVEMENT PROJECT'S USEFULNESS.

1 The useful life of the Improvement Project exceeds the final maturity date of the  
2 Bonds.

3 Section 18. USE OF PROCEEDS; UNDERWRITERS NOT RESPONSIBLE.

4 (A) USE OF PROCEEDS.

5 (1) The Board, having been informed of and having  
6 considered all pertinent facts and circumstances, does hereby find and determine  
7 and declare that proceeds from the sale of the Bonds shall be appropriated and  
8 deposited as follows:

9 (a) Proceeds of the Bonds in an amount set forth in  
10 the Sale Certificate will be deposited into the Expense Account to pay Expenses  
11 associated with the Bonds, with any amounts not expended within ninety (90) days  
12 to be deposited into the Series 2018 Bonds Debt Service Account.

13 (b) Proceeds of the Bonds designated in the Sale  
14 Certificate for the payment of interest will be deposited into the Series 2018 Bonds  
15 Debt Service Account.

16 (c) Proceeds of the Bonds in an amount set forth in  
17 the Sale Certificate will be deposited to the Series 2018 Acquisition Account within  
18 the Acquisition Fund continued herein and shall be applied to the Improvement  
19 Project. Any amounts remaining in the Series 2018 Bonds Acquisition Account after  
20 the Completion Date shall be transferred to the Series 2018 Bonds Debt Service  
21 Account and used by the Water Authority for the payment of the principal of or  
22 interest next coming due on the Bonds.

23 (d) Proceeds of the Bonds in an amount set forth in  
24 the Sale Certificate shall be used to pay and is appropriated for the payment of  
25 Underwriters' discount.

26 The Executive Director of the Water Authority is hereby authorized to make  
27 any necessary adjustments in the amounts to be deposited in the funds and  
28 accounts described in this Section on the date of delivery of the Bonds.

29 (B) UNDERWRITERS NOT RESPONSIBLE. The Underwriters  
30 shall not be responsible for the application or use by the Water Authority of the  
31 proceeds of Bonds.

1           Section 19. APPROVAL OF DOCUMENTS AND USE OF DISCLOSURE  
2 DOCUMENTS.

3           (A) APPROVAL OF DOCUMENTS. The Chair or other Authorized  
4 Officer is authorized to execute, and the Board Secretary is authorized and directed  
5 to attest, as applicable, the Sale Certificate, the Preliminary Official Statement, the  
6 Official Statement, the Bond Purchase Agreement, and the Continuing Disclosure  
7 Undertaking in substantially the forms presented or described to the Board with this  
8 Bond Ordinance, with such changes as are not inconsistent with the terms of the  
9 Bond Legislation and as are approved by the Chair or other Authorized Officer, the  
10 execution or acceptance of delivery thereof to constitute conclusive evidence of the  
11 approval of any and all changes or revisions from the form of any document now or  
12 hereafter before the Board. Any changes in any such documents inconsistent with  
13 the terms of the Bond Legislation shall be approved by the Board by subsequent  
14 ordinance or resolution of the Board. The officers, agents and employees of the  
15 Water Authority are authorized, empowered and directed to do all such acts and  
16 things and to execute all such documents as may be necessary to carry out and  
17 comply with the provisions of the Sale Certificate, the Preliminary Official Statement,  
18 the Official Statement, the Bond Purchase Agreement and the Continuing Disclosure  
19 Undertaking.

20           (B) DISCLOSURE DOCUMENT. The use and distribution of the  
21 Preliminary Official Statement and the Official Statement (with terms which are not  
22 inconsistent with the Bond Legislation) by the Underwriters in connection with the  
23 sale and issuance of the Bonds are hereby authorized and ratified.

24           (C) FURTHER ACTS. The officers, agents and employees of the  
25 Water Authority are hereby authorized and empowered to do all acts and things and  
26 to execute all documents, including separate agreements with the Paying Agent and  
27 Registrar, if necessary, to carry out and comply with the provisions of the Bond  
28 Legislation and the related documents.

29           Section 20. FUNDS AND ACCOUNTS.

30           (A) JOINT WATER AND SEWER FUND. The Water Authority shall  
31 continue the Joint Water and Sewer Fund as a separate, distinct and segregated

1 fund. As long as the Bonds are outstanding, all Gross Revenues shall continue to be  
2 set aside and credited to the Joint Water and Sewer Fund.

3 (B) DEBT SERVICE FUND AND ACCOUNTS. The Water Authority  
4 shall continue the Debt Service Fund as a separate, distinct and segregated fund for  
5 the deposit of Net Revenues for the payment of System Obligations. The Water  
6 Authority shall continue the Expense Account as part of the Debt Service Fund.  
7 Money on deposit or credited to the Expense Account shall be used for the purpose  
8 of payment of Expenses. The Water Authority shall establish the Series 2018 Bonds  
9 Debt Service Account as a separate account of the Debt Service Fund.

10 (C) RATE STABILIZATION FUND. The Water Authority shall  
11 continue the Rate Stabilization Fund as a separate, distinct and segregated fund for  
12 the purposes described in Section 21.(E).

13 (D) ACQUISITION FUND. The Water Authority shall continue the  
14 Acquisition Fund as a separate, distinct and segregated fund. The Water Authority  
15 shall establish the Series 2018 Bonds Acquisition Account as a separate account in  
16 the Acquisition Fund for the deposit of a portion of the proceeds of the Bonds to  
17 finance the Improvement Project. The Water Authority may establish separate  
18 subaccounts in the Acquisition Fund for the payment of Improvement Project costs  
19 and capitalized interest, if any, and for other purposes permitted by the Bond  
20 Legislation.

21 Section 21. ADMINISTRATION OF JOINT WATER AND SEWER FUND.

22 (A) USE OF GROSS REVENUES. As long as any Bonds are  
23 outstanding, all Gross Revenues shall continue to be deposited in the Joint Water  
24 and Sewer Fund and transferred from that fund to the following funds and accounts  
25 or for payment of the following amounts in the order listed:

26 (1) Operation And Maintenance Expenses. A sufficient  
27 amount of Gross Revenues shall be set aside each month to be used to pay the  
28 current Operation and Maintenance Expenses as they become due.

29 (2) Debt Service Accounts for Senior Obligations. Net  
30 Revenues shall be transferred to the Debt Service Accounts established for Senior  
31 Obligations to pay Debt Service Requirements on Senior Obligations, as they

1 become due, including amounts owed to any Credit Source to reimburse that Credit  
2 Source for the payments of Debt Service Requirements on Senior Obligations.

3 (3) Reserve Accounts for Senior Obligations. Net Revenues  
4 shall be transferred to a Reserve Account, if any, to the extent that amounts on  
5 deposit in that Reserve Account are less than the amount (including coverage  
6 available under any applicable Reserve Account Surety Bond) required to be on  
7 deposit therein. The Net Revenues deposited shall be used first to reimburse the  
8 Credit Source for the proceeds of a Reserve Account Surety Bond used to pay Debt  
9 Service Requirements, second to replace money drawn from the Reserve Account  
10 and third to pay the Credit Source interest accrued and owed on amounts advanced  
11 pursuant to the Reserve Account Surety Bond.

12 (4) Debt Service Accounts For Subordinate Obligations. Net  
13 Revenues shall be transferred to the Debt Service Accounts established for  
14 Subordinate Obligations to pay Debt Service Requirements on Subordinate  
15 Obligations, as they become due, including amounts owed to any Credit Source to  
16 reimburse that Credit Source for the payments of Debt Service Requirements on  
17 Subordinate Obligations.

18 (5) Reserve Accounts for Subordinate Obligations. Net  
19 Revenues shall be transferred to a Reserve Account, if any, to the extent that  
20 amounts on deposit in that Reserve Account are less than the amount (including  
21 coverage available under any applicable Reserve Account Surety Bond) required to  
22 be on deposit therein. The Net Revenues deposited shall be used first to reimburse  
23 the Credit Source for the proceeds of a Reserve Account Surety Bond used to pay  
24 Debt Service Requirements, second to replace money drawn from the Reserve  
25 Account and third to pay to the Credit Source interest accrued and owed on amounts  
26 advanced pursuant to the Reserve Account Surety Bond.

27 (6) Super Subordinated Obligations. Net Revenues shall be  
28 used to pay Debt Service Requirements on Super Subordinated Obligations, and to  
29 fund any Reserve Requirement for Super Subordinated Obligations.

30 (7) Rate Stabilization Fund. At the option of the Water  
31 Authority, Net Revenues may be transferred to the Rate Stabilization Fund to be

1 used for the purposes stated in Section 21.(E).

2 (8) Surplus Net Revenues. Surplus Net Revenues shall be  
3 retained in the Joint Water and Sewer Fund or used for any other lawful System  
4 purpose including, but not limited to, redeeming or purchasing System Obligations or  
5 paying costs and expenses of the Water Authority relating to the administration of  
6 System Obligations.

7 (9) Accumulation Of Revenues. Net Revenues need not be  
8 retained for any use or in any fund or account described in Section 21.(A) in excess  
9 of the Net Revenues required for any current use or deposit. For the purposes of  
10 this subparagraph, the term "current" shall mean the month during which the Net  
11 Revenues are being distributed and the immediately following month.

12 (B) SERIES 2018 BONDS DEBT SERVICE ACCOUNT. Net  
13 Revenues shall be transferred to the Series 2018 Bonds Debt Service Account  
14 sufficient to pay when due the Debt Service Requirements on the Bonds.

15 (1) Except as stated in this Section 21.(B)(1) and in Section  
16 21.(D), substantially equal monthly deposits of Net Revenues shall be made to the  
17 Series 2018 Bonds Debt Service Account beginning six months before each Interest  
18 Payment Date in order to make the next payment of interest on the Bonds when  
19 due. However, if the first Interest Payment Date for the Bonds is less than six  
20 months after the date of the original issuance of the Bonds, substantially equal  
21 monthly deposits of Net Revenues before the first Interest Payment Date shall begin  
22 in the first full month following the date of issuance of the Bonds in order to make the  
23 first payment of interest on the Bonds when due.

24 (2) Except as stated in this Section 21.(B)(2) and in Section  
25 21.(D), substantially equal monthly deposits of Net Revenues shall be made to the  
26 Series 2018 Bonds Debt Service Account beginning 12 months before each  
27 Principal Payment Date for the Bonds payable from such account in order to make  
28 the next scheduled payment of principal on the Bonds when due at maturity.  
29 However, if the first principal payment date for the Bonds is less than thirteen  
30 months after the date of the original issuance of the Bonds, substantially equal  
31 monthly deposits of Net Revenues before the first principal payment date shall begin

1 in the first full month following the date of issuance of the Bonds in order to make the  
2 first payment of principal on the Bonds when due at maturity.

3 If in the month immediately preceding any payment date for the Bonds, the  
4 Water Authority determines that there are not sufficient funds accumulated in the  
5 Series 2018 Bonds Debt Service Account to pay the amount becoming due on that  
6 payment date, the Water Authority shall promptly deposit any available Net  
7 Revenues in the Series 2018 Bonds Debt Service Account in an amount equal to the  
8 deficiency. If, prior to any payment date for the Bonds, there has accumulated in the  
9 Series 2018 Bonds Debt Service Account the entire amount necessary to pay the  
10 amount becoming due on the Bonds payable from such account on that payment  
11 date, no additional Net Revenues need be deposited in the Series 2018 Bonds Debt  
12 Service Account prior to that payment date. In making the determinations permitted  
13 by this paragraph, the Water Authority may take into account the amount on deposit  
14 in any other fund or account or escrow relating to the Bonds irrevocably set aside for  
15 the next payment of the Bonds.

16 Amounts on deposit in the Series 2018 Bonds Debt Service Account shall be  
17 applied first to the payment of interest and then to pay or satisfy any payment of  
18 principal on the respective Bonds. Except as provided in Section 21.(D), money in  
19 the Series 2018 Bonds Debt Service Account shall be used only to pay the Debt  
20 Service Requirements on the Bonds. Transfers of amounts equal to the periodic  
21 Debt Service Requirements on the Bonds shall be made by the Water Authority on a  
22 timely basis to the Paying Agent.

23 (C) RESERVE ACCOUNTS FOR BONDS. At the time of initial  
24 delivery of the Bonds, no Reserve Account will be established with respect to the  
25 Bonds.

26 (D) TERMINATION UPON DEPOSITS RELATING TO THE BONDS  
27 TO MATURITY. No payments need be made into the Series 2018 Bonds Debt  
28 Service Account if the amount in the Series 2018 Bonds Debt Service Account is not  
29 less than the Debt Service Requirements due and to become due on and before the  
30 final maturity date of the Bonds, both accrued and not accrued, and all proceeds  
31 paid under any Credit Facility for the Bonds have been reimbursed. The money



1 retained in that account shall be used only to pay the Debt Service Requirements on  
2 the Bonds when due except that any money on deposit in the Series 2018 Bonds  
3 Debt Service Account which is not necessary to pay such Debt Service  
4 Requirements shall be used as surplus Net Revenues in accordance with Section  
5 21.(A)(8) of this Bond Ordinance.

6 (E) RATE STABILIZATION FUND. Money on deposit in the Rate  
7 Stabilization Fund may be withdrawn at any time and used for any purpose for which  
8 Gross Revenues may be used.

9 (F) PRO RATA DEPOSITS. If the amount of Net Revenues  
10 available for deposit in the Debt Service Fund is not sufficient to pay the entire  
11 amount required to be deposited in the Debt Service Accounts and/or Reserve  
12 Accounts for System Obligations, the Net Revenues available shall be deposited in  
13 the Debt Service Accounts and Reserve Accounts pro rata based upon the amount  
14 required to be deposited in each account to the total Net Revenues available for  
15 deposit but with the priorities established in Section 21.(A).

16 With respect to each applicable series of System Obligations,  
17 reimbursements owed to a Credit Source for amounts used to pay Debt Service  
18 Requirements on those System Obligations shall be paid on the same pro rata basis  
19 and with the same priority as are amounts to be deposited in the Debt Service  
20 Account or Reserve Account, as applicable, for those System Obligations; provided  
21 that such reimbursements for payments of Debt Service Requirements made  
22 pursuant to a Credit Facility shall be made with the priorities established in Section  
23 21.(A).

24 (G) VARIABLE RATE OBLIGATIONS. In making computations  
25 required by this Section, interest on Variable Rate Obligations which cannot be  
26 computed exactly shall be deemed to bear the interest rate required by the definition  
27 of Debt Service Requirements in the Bond Legislation. To determine the amount  
28 required to be on deposit in any Debt Service Account for the payment of interest,  
29 computations of the interest rate on Variable Rate Obligations shall be made  
30 whenever there is a change in the interest rate on the applicable Variable Rate  
31 Obligations except that the computation need not be made more often than once in

1 any month.

2 Section 22. TRANSFERS TO PAY PRINCIPAL OF, PREMIUM, IF ANY,  
3 AND INTEREST ON THE BONDS; PAYMENT OF EXPENSES.

4 (A) TRANSFER TO PAYING AGENT. The Water Authority shall  
5 transfer the funds set aside pursuant to Section 21 for the payments of Debt Service  
6 Requirements on the Bonds to the Paying Agent on or before the date on which  
7 each such payment is due.

8 (B) EXPENSES. The Water Authority or its designee shall pay, or  
9 cause to be paid, all Expenses directly to the party entitled thereto.

10 Section 23. GENERAL ADMINISTRATION OF FUNDS. The funds and  
11 accounts designated in Sections 20 and 21 shall be administered as follows:

12 (A) INVESTMENT OF MONEY. To the extent practicable, any  
13 money in any such fund or account shall be invested in Permitted Investments.  
14 Obligations purchased as an investment of money in any fund or account shall be  
15 deemed at all times to be part of that fund or account, and the interest accruing and  
16 any profit realized on those investments shall be credited to that fund or account,  
17 unless otherwise stated in the Bond Legislation or related document (subject to  
18 withdrawal at any time for the uses directed and permitted for such money by the  
19 Bond Legislation and related documents), and any loss resulting from such  
20 investment shall be charged to that fund or account. The custodian for any such  
21 fund or account shall present for redemption or sale on the prevailing market any  
22 Permitted Investment in a fund or account when necessary to provide money to  
23 meet a required payment or when required to be transferred from that fund or  
24 account.

25 (B) DEPOSITS OF FUNDS. The money and investments which are  
26 part of the funds and accounts designated in Sections 20 and 21 shall be maintained  
27 and kept in an Insured Bank or Banks, or otherwise in Permitted Investments or may  
28 be held in book-entry form in the name of the Water Authority by an agent or  
29 custodian of or for the Water Authority for the benefit of the Water Authority, as  
30 permitted by State law. Each payment or deposit shall be made into and credited to  
31 the proper fund or account at the designated time, except that when the designated

1 time is not a Business Day, then the payment shall be made on the next succeeding  
2 Business Day unless otherwise required in the Bond Legislation or related  
3 documents. The Water Authority may establish one or more accounts in Insured  
4 Banks for all of the funds and accounts or combine such funds and accounts with  
5 any other Insured Bank account or accounts for other funds and accounts of the  
6 Water Authority.

7 (C) VALUATION OF INVESTMENTS. In the computation of the  
8 amount in any account or fund for any purpose under the Bond Legislation, except  
9 as otherwise expressly provided in the Bond Legislation, Permitted Investments  
10 shall be valued according to the accounting standards applicable to the Water  
11 Authority and the Board's investment policy.

12 Section 24. CREDIT FACILITY.

13 (A) CREDIT FACILITY FOR PAYMENT OF THE BONDS.  
14 Payments of all or any part of the principal of and interest on the Bonds may be  
15 guaranteed by a Credit Source.

16 (B) CHANGES TO INSURANCE TERMS. Terms and provisions  
17 with respect to any Credit Facility for the Bonds, in addition to those set forth in the  
18 Bond Legislation, shall be as set forth in the Credit Facility.

19 (C) CONSENT OF CREDIT SOURCE. Any provision of the Bond  
20 Legislation expressly recognizing or granting rights in or to a Credit Source may not  
21 be amended in any manner which affects the rights of the Credit Source without the  
22 prior written consent of that Credit Source.

23 (D) ADVERSE EFFECT ON OWNERS. In determining whether the  
24 rights of the Owners will be adversely affected by any action taken pursuant to the  
25 terms and provisions of the Bond Legislation, the Water Authority shall consider the  
26 effect on the Owners as if there were no Bond Insurance Policy or Reserve Account  
27 Surety Bond in effect.

28 (E) CREDIT FACILITY. The rights and obligations of any Credit  
29 Source under any Credit Facility shall be as set forth in the Bond Legislation or the  
30 Credit Facility but shall not exceed any of the limitations included in the Bond  
31 Legislation. The Water Authority shall promptly notify any rating agency then rating

1 the Bonds of changes to the terms of a Credit Facility.

2 Section 25. PLEDGE OF NET REVENUES AND LIEN OF THE BONDS.

3 The Net Revenues are hereby pledged for the payment of the Bonds, the  
4 reimbursement of obligations of the Water Authority for the proceeds of any Credit  
5 Facility used to pay Debt Service Requirements on the Bonds and for the other  
6 payment obligations of the Water Authority set forth in the Bond Legislation, and  
7 such payments and obligations of the Water Authority shall continue to have an  
8 irrevocable senior lien (but not an exclusive senior lien) upon the Net Revenues, on  
9 a parity with the Outstanding Senior Obligations and senior to the Subordinate  
10 Obligations and the Super Subordinated Obligations until paid. Net Revenues shall  
11 be applied to the payment of such payments and obligations with the priorities set  
12 forth in Section 21(A).

13 Section 26. ESTABLISHMENT OF PRIORITIES OF THE BONDS. Except

14 as set forth in the Bond Legislation, the Bonds from time to time Outstanding shall  
15 not be entitled to any priority one over the other in the application of the Net  
16 Revenues, regardless of the time or times of their issuance.

17 Section 27. ADDITIONAL SYSTEM OBLIGATIONS.

18 (A) LIMITATIONS UPON ISSUANCE OF SYSTEM OBLIGATIONS.

19 Subject to the limitations of this Section and Section 28, nothing in this Bond  
20 Ordinance shall be construed to prevent the issuance by the Water Authority of  
21 additional System Obligations.

22 (B) ADDITIONAL PARITY SENIOR OBLIGATIONS. The tests

23 required in this Section 27.(B) shall be performed without adjustment for payments  
24 to or withdrawals from the Rate Stabilization Fund or interest accrued in an  
25 acquisition account for any Outstanding System Obligations. Except as permitted by  
26 Section 28, prior to the issuance of additional Senior Obligations, the Water  
27 Authority shall be current in making all deposits required by Section 21 and the  
28 following test shall be satisfied:

29 (1) The Net Revenues for the Historic Test Period shall have

30 been sufficient to pay an amount representing at least 133% of the maximum  
31 combined annual Debt Service Requirements of only the Outstanding Senior

Obligations and the terms of either subparagraph 2(a) or 2(b) of this Section 27.(B) shall be satisfied.

(2) (a) Using the fees and rates for use of the System on the date of computation, or assuming that any new schedule of fees and rates approved by the Water Authority during or after the Historic Test Period was in effect during the entire Historic Test Period, the Net Revenues which were or would have been received during that Historic Test Period shall have been sufficient to pay an amount representing at least 133% of the maximum combined annual Debt Service Requirements on the Outstanding Senior Obligations and the Senior Obligations proposed to be issued; or

(b) The projected Net Revenues for the Prospective Test Period shall be sufficient to pay an amount representing at least 133% of the maximum combined annual Debt Service Requirements on the Outstanding Senior Obligations and the Senior Obligations proposed to be issued. To determine if the annual Net Revenues are sufficient for the purposes of the preceding sentence, the Net Revenues projected for the applicable Prospective Test Period shall be determined by applying the rates for use of the System approved by the Board at the time of computation to be in effect during the Prospective Test Period to the proposed number of connections to the System after giving effect to the purchase, expansion or improvement of the System or the acquisition of an existing water and sanitary sewer system.

(C) ADDITIONAL SUBORDINATE OBLIGATIONS. The tests required in this Section 27.(C) shall be performed without adjustment for payments to or withdrawals from the Rate Stabilization Fund or interest accrued in an acquisition account for Outstanding System Obligations. So long as the Series 2009A-1 Bonds, Series 2013A&B Bonds, Drinking Water State Revolving Fund Loan Agreement (2009), and Public Project Revolving Fund Loan Agreement (2011) are Outstanding, the Water Authority shall be required to meet all three tests established in this paragraph; after such Senior Obligations listed above are no longer Outstanding, the Water Authority shall be required to only meet the tests set forth in (i) and (iii) of the following sentence, and the test set forth in (ii) of the following

1 sentence shall have no further force or effect when additional Subordinate  
2 Obligations are issued by the Water Authority. Except as permitted by Section 28,  
3 prior to the issuance of additional Subordinate Obligations, the Water Authority (i)  
4 shall be current in making all deposits required by Section 21, (ii) shall satisfy the  
5 test set forth in paragraph (B) of this Section 27 related to the issuance of additional  
6 Senior Obligations, and (iii) shall satisfy the following test:

7 (1) The Net Revenues for the Historic Test Period shall have  
8 been sufficient to pay an amount representing at least 120% of the maximum  
9 combined annual Debt Service Requirements of only the Outstanding Senior  
10 Obligations and the Outstanding Subordinate Obligations and the terms of either  
11 subparagraph 2(a) or 2(b) of this Section 27.(C) shall be satisfied.

12 (2) (a) Using the fees and rates for use of the System on  
13 the date of computation, or assuming that any new schedule of fees and rates  
14 approved by the Water Authority during or after the Historic Test Period was in effect  
15 during the entire Historic Test Period, the Net Revenues which were or would have  
16 been received during that Historic Test Period shall have been sufficient to pay an  
17 amount representing at least 120% of the maximum combined annual Debt Service  
18 Requirements on the Outstanding Senior Obligations and the Outstanding  
19 Subordinate Obligations and the Subordinate Obligations proposed to be issued; or

20 (b) The projected Net Revenues for the Prospective  
21 Test Period shall be sufficient to pay an amount representing at least 120% of the  
22 maximum combined annual Debt Service Requirements on the Outstanding Senior  
23 Obligations and the Outstanding Subordinate Obligations and the Subordinate  
24 Obligations proposed to be issued. To determine if the annual Net Revenues are  
25 sufficient for the purposes of the preceding sentence, the Net Revenues projected  
26 for the applicable Prospective Test Period shall be determined by applying the rates  
27 for use of the System approved by the Board at the time of computation to be in  
28 effect during the Prospective Test Period to the proposed number of connections to  
29 the System after giving effect to the purchase, expansion or improvement of the  
30 System or the acquisition of an existing water and sanitary sewer system.

31 (D) CERTIFICATES. In determining whether additional Senior

Obligations may be issued pursuant to Section 27.(B) or additional Subordinate Obligations may be issued pursuant to Section 27.(C), a written certificate or opinion of an Independent Accountant or an Authorized Officer that states in substance that the Net Revenues are sufficient to pay the amounts required shall be conclusively presumed to be accurate in determining the right of the Water Authority to authorize, issue, sell and deliver such additional Senior Obligations or additional Subordinate Obligations, respectively. Also, an opinion of a Consulting Engineer as to the estimated Completion Date of the project to be financed by the proposed System Obligations and the estimated Net Revenues for the Prospective Test Period referred to in Section 27.(B)(2)(b) and Section 27.(C)(2)(b) shall be conclusively presumed to be accurate, and the Independent Accountant or Authorized Officer, as the case may be, may conclusively rely upon the written opinion of the Consulting Engineer in making the determinations required by Section 27. (B)(2)(b) and Section 27. (C)(2)(b)

(E) SUPER SUBORDINATED OBLIGATIONS PERMITTED. No provision of the Bond Legislation shall be construed to prevent the Water Authority from issuing additional Super Subordinated Obligations with a lien on Net Revenues subordinate to the lien of the Subordinate Obligations and the Senior Obligations.

(F) VARIABLE RATE OBLIGATIONS. In making the computations required by this Section to determine if additional System Obligations may be issued, Variable Rate Obligations shall be deemed to bear a rate of interest as required in the definition of Debt Service Requirements.

(G) SUPERIOR OBLIGATIONS PROHIBITED. As long as Senior Obligations are outstanding, the Water Authority shall not issue additional System Obligations having a lien on the Net Revenues prior and superior to the lien of the Senior Obligations on Net Revenues.

Section 28. REFUNDING OBLIGATIONS. The provisions of Section 27 of this Bond Ordinance are subject to the following exceptions:

(A) PRIVILEGE OF ISSUING REFUNDING OBLIGATIONS. If at any time while System Obligations remain Outstanding, the Water Authority desires to refund any Outstanding System Obligations or other obligations payable from Net

1 Revenues, those System Obligations or other obligations, or any part thereof, may  
2 be refunded regardless of whether the priority of the lien for the payment of the  
3 refunding System Obligations on the Net Revenues is changed (except as provided  
4 in paragraphs B and C of this Section).

5 (B) LIMITATIONS UPON ISSUANCE OF REFUNDING SENIOR  
6 OBLIGATIONS. No senior refunding bonds or other senior refunding obligations  
7 shall be issued as Senior Obligations unless:

8 (1) The refunding does not increase the maximum combined  
9 annual Debt Service Requirements of the Senior Obligations, or

10 (2) The refunding Senior Obligations are issued in  
11 compliance with Section 27.(B).

12 (C) LIMITATIONS UPON ISSUANCE OF REFUNDING  
13 SUBORDINATE OBLIGATIONS. No subordinate refunding bonds or other  
14 subordinate refunding obligations shall be issued as Subordinate Obligations unless:

15 (1) The refunding does not increase the maximum combined  
16 annual Debt Service Requirements of the Subordinate Obligations, or

17 (2) The refunding Subordinate Obligations are issued in  
18 compliance with Section 27.(C).

19 (D) LIMITATIONS UPON ISSUANCE OF ANY REFUNDING  
20 SYSTEM OBLIGATIONS. Any refunding System Obligations shall be issued with  
21 such details as the Board may provide by appropriate proceedings but without  
22 impairment of any contractual obligation imposed upon the Water Authority by any  
23 proceedings authorizing the issuance of any unrefunded portion of the series of  
24 System Obligations to which the refunding was applicable.

25 Section 29. PROTECTIVE COVENANTS. The Water Authority hereby  
26 covenants and agrees with the Owners:

27 (A) USE OF THE BOND PROCEEDS. The Water Authority will  
28 promptly apply the proceeds of the Bonds to the Project and for the other purposes  
29 permitted by this Bond Ordinance.

30 (B) PAYMENT OF THE BONDS. The Water Authority will promptly  
31 pay the Debt Service Requirements on the Bonds at the place, on the dates and in



1 the manner specified in the Bond Legislation and the Bonds.

2 (C) RATE COVENANTS.

3 (1) Rate Covenant for Senior Obligations. The Water  
4 Authority will charge all purchasers of services of the System, including the Water  
5 Authority, the City and the County, such reasonable and just rates as are sufficient  
6 to produce Net Revenues annually to pay 133% of the annual Debt Service  
7 Requirements on the Outstanding Senior Obligations (excluding accumulation of any  
8 reserves therefor).

9 (2) Rate Covenant for Subordinate Obligations. The Water  
10 Authority will charge all purchasers of services of the System, including the Water  
11 Authority, the City and the County, such reasonable and just rates as are sufficient  
12 to produce Net Revenues annually to pay 120% of the annual Debt Service  
13 Requirements on the Outstanding Senior Obligations and the Outstanding  
14 Subordinate Obligations (excluding accumulation of any reserves therefor).

15 (3) Quarterly, the Water Authority shall determine that the  
16 Net Revenues are sufficient to satisfy the Rate Covenants. If the Net Revenues are  
17 not sufficient to satisfy the Rate Covenant upon the approval of the annual audit for  
18 a Fiscal Year, the Water Authority will either: (i) promptly increase the rates for use  
19 of the services of the System in order to generate sufficient Net Revenues to satisfy  
20 the Rate Covenants or (ii) employ a consultant or manager for the System who shall  
21 have a favorable national reputation for skill and experience in the management,  
22 operation and financial affairs of water and sanitary sewer systems and who is not  
23 an employee or officer of the Water Authority. The Water Authority will request that  
24 consultant or manager to make its recommendations, if any, as to revisions of the  
25 Water Authority's rate structure and other charges for use of the System, its  
26 Operation and Maintenance Expenses and the method of operation of the System in  
27 order to satisfy the Rate Covenants as soon as practicable. Copies of any such  
28 requests and recommendations of the consultant or manager shall be filed with the  
29 Board. So long as the Water Authority substantially complies with the  
30 recommendations of the consultant or manager on a timely basis, the Water  
31 Authority will not be deemed to have defaulted in satisfying the Rate Covenants

1 even if the resulting Net Revenues are not sufficient to be in compliance with the  
2 Rate Covenants, if there is no other default under the Bond Legislation.

3 (4) No free service, facilities or commodities shall be  
4 furnished by the System. If the Water Authority, the City or the County elects to use  
5 water supplied by, or the sanitary sewer facilities of, the System or in any other  
6 manner use the System, such use of the System by such entity shall be paid from  
7 lawfully available money of such entity at the reasonable value of the use made,  
8 service rendered or facility or commodity supplied as is charged to other similar  
9 users of the System.

10 (5) Nothing contained in this Section 29.(C) shall be  
11 interpreted to require the Water Authority to take any action in violation of any  
12 applicable requirement imposed by law.

13 (D) LIEN ON LANDS SERVICED BY SYSTEM. To the extent  
14 permitted by law, the Water Authority will cause a lien to be perfected upon each lot  
15 or parcel of land for delinquent charges imposed for water and sanitary sewer  
16 services supplied by the System to the owner of such lot or parcel. The Water  
17 Authority will take all necessary steps to enforce the lien against any parcel of  
18 property the owner of which is delinquent for more than six months in the payment of  
19 charges imposed by the Water Authority.

20 (E) LEVY OF CHARGES. The Water Authority will promptly fix,  
21 establish and levy the rates and charges which are required by Section 29.(C). No  
22 reduction in any initial or existing rate schedule for the System may be made unless:

23 (1) the Water Authority has fully complied with the provisions  
24 of Section 21 of this Bond Ordinance for any 12 consecutive months out of the 16  
25 calendar months immediately preceding the reduction of the rate schedule, and

26 (2) the audit required by Section 29.(I) or a separate  
27 certificate by an Independent Accountant for or relating to any 12 consecutive  
28 months out of the 16 calendar months immediately preceding any reduction  
29 discloses that the estimated Net Revenues resulting from the proposed reduced rate  
30 schedule would have been sufficient to meet the applicable Rate Covenant during  
31 the applicable 12-month period.

1 (F) EFFICIENT OPERATION. The Water Authority will maintain the  
2 System in efficient operating condition and make such improvements, extensions,  
3 enlargements, repairs and betterments to the System as may be necessary or  
4 advisable for its economical and efficient operation at all times and to supply  
5 reasonable public and private demands for System services within the area served  
6 by the Water Authority.

7 (G) RECORDS. So long as the Bonds remain Outstanding, the  
8 Water Authority will keep, or cause to be kept, proper books of record and account,  
9 separate from all other records and accounts, showing complete and correct entries  
10 of all transactions relating to the System.

11 (H) RIGHT TO INSPECT. Owners, or their duly authorized agents,  
12 shall have the right to inspect at all reasonable times all records, accounts and data  
13 relating to the System; however, pursuant to Section 6-14-10(E) NMSA 1978,  
14 records with regard to the ownership or pledge of the Bonds are not subject to  
15 inspection or copying.

16 (I) AUDITS. So long as the Bonds are Outstanding, within 270  
17 days following the close of each Fiscal Year, the Water Authority will cause an audit  
18 of the books and accounts of the System to be made by an Independent Accountant.  
19 Each audit of the System shall include those matters determined to be proper by the  
20 Independent Accountant.

21 (J) BILLING PROCEDURE. Bills for water, water services or  
22 facilities, sanitary sewer service or facilities, or any combination thereof, furnished by  
23 or through the System shall be provided to customers on a regular basis each month  
24 following the month in which the service was rendered and shall be due as required  
25 by Water Authority ordinance. If permitted by law, if a bill is not paid within the  
26 period of time required by Water Authority ordinance, water and sanitary sewer  
27 services shall be discontinued as required by Water Authority ordinance, and the  
28 rates and charges due shall be collected in a lawful manner, including but not limited  
29 to the cost of disconnection and reconnection.

30 (K) CHARGES AND LIENS UPON SYSTEM. The Water Authority  
31 will pay when due from Gross Revenues or other legally available funds all taxes

1 and assessments or other municipal or governmental charges, lawfully levied or  
2 assessed upon the System and will observe and comply with all valid requirements  
3 of any municipal or governmental authority relating to the System. The Water  
4 Authority will not create or permit any lien or charge upon the System or the Gross  
5 Revenues or Net Revenues except as permitted by this Bond Ordinance, or it will  
6 make adequate provisions to satisfy and discharge within 60 days after the same  
7 accrue, all lawful claims and demands for labor, materials, supplies or other objects,  
8 which, if unpaid, might by law become a lien upon the System, the Gross Revenues  
9 or the Net Revenues. However, the Water Authority shall not be required to pay or  
10 cause to be discharged, or make provision for any tax assessment, lien or charge  
11 before the time when payment becomes due or so long as the validity thereof is  
12 contested in good faith by appropriate legal proceedings and there is no adverse  
13 effect on Owners.

14 (L) INSURANCE. In its operation of the System, the Water  
15 Authority will carry fire and extended coverage insurance. As required by law, the  
16 Water Authority will acquire insurance or maintain a self-insurance fund to cover  
17 workmen's compensation insurance and public liability insurance. In the event of  
18 property loss or damage to the System, insurance proceeds shall be used first for  
19 the purpose of restoring or replacing the property lost or damaged and any  
20 remainder shall be treated as Gross Revenues.

21 (M) ALIENATING SYSTEM. Except as permitted in this Bond  
22 Ordinance, while any Bonds are Outstanding, the Water Authority will not sell, lease,  
23 mortgage, pledge or otherwise encumber, or in any manner dispose of, or otherwise  
24 alienate, any part of the System, except that the Water Authority may sell any  
25 portion of the property of the System which is replaced by other property of at least  
26 equal value, or which ceases to be necessary for the efficient operation of the  
27 System. In the event of any sale of System property, the proceeds of such sale  
28 which are not used to purchase other System property shall be distributed as Gross  
29 Revenues.

30 (N) EXTENDING INTEREST PAYMENTS. To prevent any  
31 accumulation of claims for interest after maturity, except as permitted by the Bond

1 Legislation, the Water Authority will not directly or indirectly extend or assent to the  
2 extension of the time for the payment of any claim for interest on the Bonds. If the  
3 time for payment of interest is extended contrary to the provisions of this Section, the  
4 installments of interest extended shall not be entitled, in case of an event of default  
5 under the Bond Legislation, to the benefit or security of the Bond Legislation until the  
6 prior payment in full of the principal of and interest on all other Bonds then  
7 Outstanding.

8 (O) COMPETENT MANAGEMENT. The Water Authority shall  
9 employ experienced and competent personnel to manage the System.

10 (P) PERFORMING DUTIES. The Water Authority will faithfully and  
11 punctually perform all duties with respect to the System required by State, City and  
12 County laws including, but not limited to, making and collecting reasonable and  
13 sufficient rates and charges for services rendered or furnished by the System as  
14 required by this Section and the proper segregation and application of the Gross  
15 Revenues.

16 (Q) OTHER LIENS. Other than as stated in or provided by the  
17 Bond Legislation, there are no liens or encumbrances of any nature whatsoever on  
18 or against the System or Gross Revenues or Net Revenues.

19 (R) WATER AUTHORITY'S EXISTENCE. The Water Authority will  
20 maintain its corporate identity, existence, and Board governance structure and  
21 determination of Board members as long as the Bonds remain outstanding.

22 (S) TAX COMPLIANCE. The Water Authority covenants that it will  
23 use, and will restrict the use and investment of, the proceeds of the Bonds in such  
24 manner and to such extent as may be necessary so that (a) the Bonds will not (i)  
25 constitute private activity bonds, arbitrage bonds or hedge bonds under Sections  
26 141, 148 or 149 of the Code or (ii) be treated other than as bonds to which Section  
27 103(a) of the Code applies, and (b) the interest thereon will not be treated as a  
28 preference item under Section 57 of the Code.

29 The Water Authority further covenants (a) that it will take or cause to be taken  
30 such actions that may be required of it for the interest on the Bonds to be and to  
31 remain excludable from gross income for federal income tax purposes, (b) that it will

1 not take or authorize to be taken any actions that would adversely affect that  
2 exclusion, and (c) that it, or persons acting for it, will, among other acts of  
3 compliance, (i) apply the proceeds of the Bonds to the governmental purposes of the  
4 borrowings, (ii) restrict the yield on investment property, (iii) make timely and  
5 adequate rebate payments or payments of alternative amounts in lieu of rebate to  
6 the federal government, (iv) maintain books and records and make calculations and  
7 reports, and (v) refrain from certain uses of those proceeds and, as applicable, of  
8 property financed with such proceeds, all in such manner to the extent necessary to  
9 assure such exclusion of that interest under the Code.

10 Authorized Officers are hereby authorized (a) to make or effect any election,  
11 selection, designation, choice, consent, approval, or waiver on behalf of the Water  
12 Authority as the Water Authority is permitted or required to make or give under the  
13 federal income tax laws including, without limitation thereto, any of the elections  
14 provided for in Section 148(f)(4)(C) of the Code or available under Section 148 of the  
15 Code, for the purpose of assuring, enhancing or protecting favorable tax treatment  
16 or status of the Bonds or interest thereon or assisting in the compliance with  
17 requirements for that purpose, reducing the burden or expense of such compliance,  
18 reducing the rebate amount or payments of penalties, or making payments of special  
19 amounts in lieu of making computations to determine, or paying, excess earnings as  
20 rebate, or obviating those amounts or payments, as determined by that officer, which  
21 action shall be in writing and signed by the Authorized Officer, (b) to take any and all  
22 other actions, make or obtain calculations, make payments, and make or give  
23 reports, covenants and certifications of and on behalf of the Water Authority, as may  
24 be appropriate to assure the exclusion of interest from gross income and the  
25 intended tax status of the Bonds, and (c) to give one or more appropriate certificates  
26 of the Water Authority, for inclusion in the transcripts of the proceedings for the  
27 Bonds, setting forth the reasonable expectations of the Water Authority regarding  
28 the amount and use of all the proceeds of the Bonds, the facts, circumstances and  
29 estimates on which they are based, and other facts and circumstances relevant to  
30 the tax treatment of the interest on and the tax status of the Bonds.

31 Section 30. REBATE FUND. A separate account of the Rebate Fund shall

1 not be required for the Bonds provided that the Water Authority shall comply with the  
2 provisions of Section 29.(S).

3 Section 31. EVENTS OF DEFAULT. Each of the following events is  
4 declared an "event of default" under the Bond Legislation:

5 (A) NONPAYMENT OF PRINCIPAL. Failure to pay the principal of  
6 the Bonds when due and payable, either at maturity or otherwise.

7 (B) NONPAYMENT OF INTEREST. Failure to pay any installment  
8 of interest on the Bonds when due and payable.

9 (C) INCAPABLE OF PERFORMING. For any reason, the Water  
10 Authority becomes incapable of fulfilling its obligations under the Bond Legislation.

11 (D) DEFAULTS OF ANY OTHER PROVISION. Default by the  
12 Water Authority in the due and punctual performance of its covenants, conditions,  
13 agreements and provisions contained in System Obligations or in the Water  
14 Authority ordinance authorizing those System Obligations and the continuance of  
15 such default (other than a default set forth in paragraphs A, B and C of this Section)  
16 for 60 days after written notice specifying such default and requiring the same to be  
17 remedied has been given to the Water Authority by any Credit Source or the Owners  
18 of 25% in principal amount of the System Obligations then Outstanding.

19 Section 32. REMEDIES UPON DEFAULT. Upon the happening and  
20 continuance of any of the events of default stated in Section 31:

21 (1) any applicable Credit Source may proceed with any  
22 available remedies under any Credit Facility; and

23 (2) the Owners of not less than 66% in principal amount of  
24 the System Obligations then Outstanding, including but not limited to a trustee or  
25 trustees therefor, with the consent of the Credit Source with respect to Insured  
26 Obligations, may proceed against the Water Authority or the Board or both to:

27 (a) protect and enforce the rights of the Owners by  
28 mandamus or other suit, action or special proceedings in equity or at law, in any  
29 court of competent jurisdiction, either for the appointment of a receiver or for the  
30 specific performance of any covenant or agreement contained in the Bond  
31 Legislation or for the enforcement of any proper legal or equitable remedy as those

1 Owners may deem necessary or desirable to protect and enforce their rights,  
2 (b) to enjoin any act or thing which may be unlawful or  
3 in violation of any right of any Owner,  
4 (c) to require the Board to act as if it were the trustee  
5 of an express trust, or  
6 (d) any combination of those remedies.

7 All proceedings shall be instituted and maintained for the equal benefit of all  
8 Owners of System Obligations then Outstanding, subject to the provisions of Section  
9 21 of this Bond Ordinance, with respect to the use of Gross Revenues. The Owners  
10 by purchasing System Obligations consent to the appointment of a receiver to  
11 protect the rights of the Owners. The receiver may enter and take possession of  
12 and operate and maintain the System and shall prescribe rates, fees or charges and  
13 collect, receive and apply all Gross Revenues as required by this Bond Ordinance.  
14 The failure of any Owner to exercise any right granted by this Section shall not  
15 relieve the Water Authority of any obligation to perform any duty. Each right or  
16 privilege of any Owner (or trustee or receiver therefor) is in addition and cumulative  
17 to any other right or privilege and the exercise of any right or privilege by or on  
18 behalf of any Owner shall not be deemed a waiver of any other right or privilege of  
19 any Owner.

20 Notwithstanding any other provision in the Bond Legislation, no recourse shall  
21 be had for the payment of any Bond or for any claim based on any other obligation,  
22 covenant or agreement contained in the Bond Legislation against any past, present  
23 or future officer, employee or agent of the Water Authority or member of the Board,  
24 and all such liability of any such officers, employees, agents or member (as such) is  
25 released as a condition of and consideration for the adoption of the Bond Legislation  
26 and the issuance of the Bonds.

27 Upon the occurrence and continuance of an Event of Default, so long as the  
28 Credit Source, if any, is not in default in its payment obligations under the Bond  
29 Insurance Policy, the Credit Source shall be entitled to control and direct the  
30 enforcement of all rights and remedies granted to the Owners with respect to



1 Insured Obligations and such Credit Source shall also be entitled to direct and  
2 approve all waivers of Events of Default with respect to Insured Obligations.

3 Section 33. DUTIES UPON DEFAULT. Upon the happening of any of the  
4 events of default listed in Section 31, the Water Authority will do and perform all  
5 proper acts on behalf of and for the Owners necessary to protect and preserve the  
6 security created for the payment of the System Obligations and for the payment of  
7 the Debt Service Requirements on the System Obligations promptly as the same  
8 become due. As long as any of the System Obligations are Outstanding, all Gross  
9 Revenues shall be distributed and used for the purpose and with the priorities set  
10 forth in Section 21. If the Water Authority fails or refuses to proceed as provided in  
11 this Section, the Owners of not less than 66% in principal amount of the System  
12 Obligations then Outstanding, after demand in writing, may proceed to protect and  
13 enforce the rights of the Owners as provided in the Bond Legislation.

14 Section 34. DEFEASANCE. When all principal, interest and prior  
15 redemption premiums, if any, in connection with all or any part of the Bonds have  
16 been paid or provided for (including amounts owed to the Credit Source, if any,  
17 under any Bond Insurance Policy), the pledge and lien and all obligations under the  
18 Bond Legislation with respect to those Bonds and any Bond Insurance Policy shall  
19 be discharged and those Bonds shall no longer be deemed to be Outstanding within  
20 the meaning of the Bond Legislation.

21 Without limiting the preceding paragraph, there shall be deemed to be such  
22 payment when: (i) the Board has caused to be placed in escrow and in trust with an  
23 escrow agent located within or without the State and exercising trust powers, an  
24 amount sufficient (including the known minimum yield from Defeasance Obligations  
25 in which such amount may be initially invested) to pay all requirements of principal,  
26 interest and prior redemption premium, if any, on the Bonds to be defeased as the  
27 same become due to the final maturities or upon designated prior redemption dates,  
28 and (ii) any Bonds to be redeemed prior to maturity shall have been duly called for  
29 redemption or irrevocable instructions to call such Bonds for redemption have been  
30 given to the Registrar. The escrow agent shall have received evidence satisfactory  
31 to it that the cash and Defeasance Obligations delivered will be sufficient to provide

1 for the payment of the Bonds to be defeased as stated above. Neither the  
2 Defeasance Obligations nor money deposited with the escrow agent shall be  
3 withdrawn or used for any purpose other than as provided in the escrow agreement  
4 and the Defeasance Obligations and money shall be segregated and held in trust for  
5 the payment of the principal and premium, if any, and interest on the Bonds with  
6 respect to which such deposit has been made. The Defeasance Obligations shall  
7 become due prior to the respective times at which the proceeds are needed in  
8 accordance with a schedule established and agreed upon between the Board and  
9 the escrow agent at the time of the creation of the escrow, or the Defeasance  
10 Obligations shall be subject to redemption but only at the option of the holders or  
11 owners thereof to assure the availability of the proceeds as needed to meet the  
12 schedule.

13       Until reimbursement is made by the Water Authority to the applicable Credit  
14 Source, if the principal and/or interest due on Insured Obligations is paid by a Credit  
15 Source pursuant to a Credit Facility, the applicable Insured Obligations shall remain  
16 Outstanding, shall not be defeased or otherwise satisfied and shall not be  
17 considered to be paid by the Water Authority. In such case, the assignment and  
18 pledge of the Net Revenues for the payment of the Insured Obligations paid by the  
19 Credit Source and all covenants, agreements and other obligations of the Water  
20 Authority to the Owners of those Insured Obligations shall continue to exist and shall  
21 run to the benefit of that Credit Source and that Credit Source shall be subrogated to  
22 the rights of the owners of those Insured Obligations, until all obligations of the  
23 Water Authority to that Credit Source have been paid.

24       Notwithstanding the foregoing, any provisions of the Bond Legislation  
25 which relate to indemnification and the payment of fees and expenses, the payment  
26 of the principal of and premium of Bonds at maturity or on a prior redemption date,  
27 interest payments and dates thereof, exchange, registration of transfer and  
28 registration of Bonds, replacement of mutilated, destroyed, lost or stolen Bonds, the  
29 safekeeping and cancellation of Bonds, non-presentment of Bonds, the holding of  
30 money in trust, the obligations set forth in the Bond Legislation regarding rebate, and  
31 the duties of the Registrar, Authenticating Agent and Paying Agent in connection

1 with all of the foregoing shall remain in effect and be binding upon the Owners, the  
2 Registrar, Authenticating Agent and Paying Agent notwithstanding the release and  
3 discharge of the Bond Legislation. The provisions of this Section shall survive the  
4 release, discharge and satisfaction of the Bond Legislation.

5 Section 35. BONDS NOT PRESENTED WHEN DUE. If any Bonds are not  
6 duly presented for payment when due at maturity or on any prior redemption date,  
7 and if money sufficient for the payment of those Bonds is on deposit with the Paying  
8 Agent, and, in the case of the Bonds to be redeemed, if notice of redemption has  
9 been given as provided in the Bond Legislation, all liability of the Water Authority to  
10 the Owners of those Bonds shall be discharged, those Bonds shall no longer be  
11 Outstanding and it shall be the duty of the Paying Agent to segregate and to hold  
12 such money in trust, without liability for interest thereon, for the benefit of the  
13 Owners of those Bonds.

14 Section 36. DELEGATED POWERS. The officers of the Water Authority  
15 are authorized and directed to take all action from time to time which is necessary or  
16 appropriate to effectuate the provisions of the Bond Legislation and the Bonds,  
17 including, without limitation, the execution of any credit facility, any liquidity  
18 agreement, any remarketing agreement, any qualified exchange agreement, the  
19 delivery of a "deemed final" certificate relating to the disclosure document for the  
20 Bonds, the publication of a summary of this Bond Ordinance substantially in the form  
21 set out in Section 44, the distribution of material related to the Bonds, the printing of  
22 the Bonds and the execution of related documents and certificates pertaining to the  
23 System, the Bonds, and the delivery of and security for the Bonds, as may be  
24 reasonably required by the Underwriters. The officers of the Water Authority are  
25 authorized and directed to take all action from time to time which is desirable or  
26 necessary for the Water Authority with respect to arbitrage rebate requirements  
27 under Section 148(f) of the Code. Pursuant to Section 6-14-10.2 NMSA 1978 and  
28 the provisions of this Bond Ordinance, the Delegate is delegated the authority to  
29 approve the final terms of the Bonds and to execute the Sale Certificate and Bond  
30 Purchase Agreement all within the parameters set forth in this Bond Ordinance.

1           The Executive Director of the Water Authority, or successor in interest, is  
2 hereby authorized and directed to make such changes or corrections to the  
3 procedures established in the Bond Legislation relating to the times of day or the  
4 days on which actions are required to be taken, or the persons responsible for  
5 particular actions, the form of notice of the occurrence of events, the types and  
6 forms of actions required and other similar administrative matters which, in the  
7 judgment of the Executive Director, are necessary and appropriate to accomplish the  
8 purposes of the Bond Legislation and to provide for the efficient administration of the  
9 System and the Bonds. Notice of any such changes or corrections shall be given to  
10 all persons affected thereby.

11           Section 37. AMENDMENT OF BOND ORDINANCE.

12           (A) LIMITATIONS UPON AMENDMENTS. The Bond Legislation  
13 may be amended by ordinance or resolution of the Board without the consent of  
14 Owners but with the consent of any Credit Source providing a Credit Facility which is  
15 in effect and which pertains to the Bonds and is affected by the amendment if the  
16 Credit Source is not in default in its obligations under the Credit Facility:

17                   (1) To cure any ambiguity, or to cure, correct or supplement  
18 any defect or inconsistent provision contained in the Bond Legislation;

19                   (2) To grant to the Owners any additional rights, remedies,  
20 powers or authority that may lawfully be granted to them;

21                   (3) To obtain or maintain a rating on the Bonds from any  
22 rating agency if the amendment, in the judgment of Bond Counsel, does not  
23 materially adversely affect the Owners of the Bonds;

24                   (4) To achieve compliance with federal securities or tax laws;  
25 and

26                   (5) To make any other changes in the Bond Legislation  
27 which, in the opinion of Bond Counsel, are not materially adverse to the Owners.

28           (B) ADDITIONAL AMENDMENTS. Except as provided above or in  
29 the Confirming Resolution, the Bond Legislation may only be amended or  
30 supplemented by ordinance or resolution adopted by the Board in accordance with  
31 the laws of the State, without receipt by the Water Authority of any additional

1 consideration, but with the written consent of the Owners of a majority of the  
2 principal amount of the Bonds then Outstanding which are affected by the  
3 amendment or supplement (not including the Bonds which are then owned by or for  
4 the account of the Water Authority) and of any Credit Source providing a Credit  
5 Facility which is in effect affected by the amendment or supplement, if the Credit  
6 Source is not in default in its obligations under the Credit Facility; provided, however,  
7 that no such ordinances or resolutions shall have the effect of permitting:

- 8 (1) An extension of the maturity of any Bond; or
- 9 (2) A reduction in the principal amount of, premium, if any, or  
10 interest rate on any Bond; or
- 11 (3) The creation of a lien on or a pledge of Net Revenues  
12 ranking prior to the lien or pledge of Senior Obligations on Net Revenues; or
- 13 (4) A reduction of the principal amount of the Bonds required  
14 for consent to such amendment or supplement.

15 (C) PROOF OF INSTRUMENTS. The fact and date of the  
16 execution of any instrument under the provisions of this Section may be proved by  
17 the certificate of any officer in any jurisdiction who by the laws of that jurisdiction is  
18 authorized to take acknowledgments of deeds within that jurisdiction that the person  
19 signing the instrument acknowledged before him the execution of that instrument, or  
20 may be proved by an affidavit of a witness to the execution sworn to before such  
21 officer.

22 Section 38. LIMITATION OF RIGHTS. Nothing in the Bond Legislation  
23 expressed or implied is intended or shall be construed to give to any Person other  
24 than the Owners, the Water Authority and the parties to which such right, remedy or  
25 claim is expressly granted by the Bond Legislation any legal or equitable right,  
26 remedy or claim under or in respect to the Bond Legislation or any covenant,  
27 condition or stipulation of the Bond Legislation, and all covenants, stipulations,  
28 promises and agreements in the Bond Legislation shall be for the sole and exclusive  
29 benefit of the Water Authority, the Paying Agent, the Registrar and the Owners.

30 Section 39. NOTICES. Except as otherwise specifically required in the  
31 Bond Legislation, notice with respect to the Bonds shall be effective when received

1 and it shall be sufficient service of any notice, request, demand or other paper if the  
2 same is given: (i) orally, or (ii) by mail, or (iii) by Electronic Means, or (iv) hand  
3 delivered; provided that any notice given orally, including notice by telephone, must  
4 be confirmed by notice in writing as set forth in clause (ii), (iii) (except by telephone)  
5 or (iv) above initiated within one Business Day after oral Notice is given. Notice shall  
6 be given as follows:

7 (A) If to the Water Authority:

8 Albuquerque Bernalillo County Water Utility Authority

9 One Civic Plaza, N.W., Room 5012

10 Albuquerque, NM 87102

11 Attention: Executive Director

12 (505) 289-3101

13 (505) 289-3060 (Fax)

14  
15 (B) If to the Initial Paying Agent:

16 Albuquerque Bernalillo County Water Utility Authority

17 One Civic Plaza NW, Room 5012

18 Albuquerque, NM 87102

19 Attention: Chief Financial Officer

20 (505) 289-3080

21  
22 Any such party may, by notice as set forth above to other parties, designate  
23 any further or different address to which subsequent notices, certificates or other  
24 communication shall be sent. All notices sent pursuant to the Bond Legislation to  
25 any Owner shall also be sent to the Credit Source, if any, of the Bonds.

26 When the Bond Legislation provides for notice to the Owners of Bonds of any  
27 event, such notice shall be sufficiently given (unless otherwise expressly provided in  
28 the Bond Legislation) if in writing and given in accordance with this Section to each  
29 Owner of Bonds affected by such event, at his address as it appears on the register  
30 for the Bonds. In any case where notice to an Owner of Bonds is given by Electronic  
31 Means or by mail, neither the failure to send such notice nor any defect in any notice

1 sent to any particular Owner of Bonds shall affect the sufficiency of such notice with  
2 respect to any other Owner, and any notice which is sent in the manner provided in  
3 this paragraph shall conclusively be presumed to have been duly given.

4 Where the Bond Legislation provides for notice upon the occurrence of any  
5 event, that notice may be waived by the person entitled to receive that notice, either  
6 before or after the event, and such waiver shall be the equivalent of notice.

7 The Paying Agent shall provide Moody's and S&P if the Bonds are then rated  
8 by Moody's and S&P, as applicable, with prior written notice of any amendments to  
9 the Bond Legislation and the optional redemption of Bonds pursuant to Section 9.(A)  
10 or defeasance pursuant to Section 34. Such notice shall be sent (a) to Moody's at:  
11 Moody's Investors Service, Public Finance Department – Structured Finance Group,  
12 99 Church Street, New York, New York 10007, and (b) to S&P at: S&P Global  
13 Ratings, Attention: Municipal Finance Department – Structured Finance Group, 25  
14 Broadway, 20th Floor, New York, New York 10004.

15 Section 40. BOND ORDINANCE IRREPEALABLE AS TO THE BONDS.  
16 After any of the Bonds are issued, this Bond Ordinance shall be and remain  
17 irrepealable until the Debt Service Requirements on all the Bonds are fully paid and  
18 discharged and the Bonds are canceled, as provided in this Bond Ordinance, or  
19 there has been defeasance of all the Bonds as provided in this Bond Ordinance.

20 Section 41. SEVERABILITY CLAUSE. If any section, paragraph, clause or  
21 provision of this Bond Ordinance shall for any reason be held to be invalid or  
22 unenforceable, the invalidity or unenforceability of that section, paragraph, clause or  
23 provision shall not affect any of the remaining provisions of this Bond Ordinance.

24 Section 42. REPEALER CLAUSE. All bylaws, orders, resolutions and  
25 ordinances, or parts thereof, inconsistent with this Bond Ordinance are repealed to  
26 the extent only of such inconsistency. This repealer shall not be construed to revive  
27 any bylaw, order, resolution or Ordinance, or part thereof, previously repealed.

28 Section 43. GENERAL SUMMARY FOR PUBLICATION. The title and a  
29 general summary of the subject matter contained in the Bond Ordinance shall be  
30 published in substantially the following form:

31

1                               **(Form of Summary of Ordinance for Publication)**

2                               **Albuquerque Bernalillo County Water Utility Authority**

3                               **Notice of Adoption of Ordinance**

4               NOTICE IS HEREBY GIVEN, pursuant to the provisions of Section 6-14-6  
5 NMSA 1978, that on September 19, 2018, the Board of Albuquerque Bernalillo  
6 County Water Utility Authority (the "Water Authority") adopted Water Authority  
7 Ordinance No. O-18-7 (the "Bond Ordinance"), an ordinance which authorizes the  
8 issuance of the Water Authority's Senior Lien Joint Water and Sewer System  
9 Improvement Revenue Bonds, Series 2018 in an aggregate principal amount not to  
10 exceed \$83,000,000 to make certain improvements to the Water Authority's joint  
11 water and sewer system (the "System").

12               The title of the Bond Ordinance is:

13                               **ORDINANCE**

14   **AUTHORIZING THE ISSUANCE AND SALE OF ALBUQUERQUE BERNALILLO**  
15   **COUNTY WATER UTILITY AUTHORITY (THE "WATER AUTHORITY") SENIOR**  
16   **LIEN JOINT WATER AND SEWER SYSTEM IMPROVEMENT REVENUE BONDS,**  
17   **SERIES 2018 IN AN AGGREGATE PRINCIPAL AMOUNT NOT TO EXCEED**  
18   **\$83,000,000 (THE "SERIES 2018 BONDS" OR THE "BONDS") TO BE ISSUED IN**  
19   **ONE OR MORE SERIES FOR THE PURPOSE OF ACQUIRING ADDITIONAL**  
20   **SYSTEM ASSETS, AND EXTENDING, REPAIRING, REPLACING AND**  
21   **IMPROVING THE WATER AUTHORITY'S JOINT WATER AND SEWER SYSTEM**  
22   **("THE SYSTEM"); PROVIDING FOR THE DISPOSITION OF, AND OTHER**  
23   **DETAILS RELATING TO, THE REVENUES FROM THE OPERATION OF THE**  
24   **SYSTEM INCLUDING THE PAYMENT OF DEBT SERVICE ON SYSTEM**  
25   **OBLIGATIONS; DETERMINING CERTAIN TERMS AND THE METHOD OF**  
26   **DETERMINING OTHER TERMS CONCERNING THE BONDS; PROVIDING FOR**  
27   **THE APPROVAL OF VARIOUS AGREEMENTS AND DISCLOSURE**  
28   **DOCUMENTS RELATING TO THE BONDS; DELEGATING AUTHORITY TO THE**  
29   **DELEGATE TO EXECUTE AND DELIVER A BOND PURCHASE AGREEMENT**  
30   **FOR THE SALE OF THE BONDS TO THE UNDERWRITERS PURSUANT TO THE**



1 **SUPPLEMENTAL PUBLIC SECURITIES ACT; AND RATIFYING ACTION**  
2 **PREVIOUSLY TAKEN.**

3  
4 The title contains a general summary of the subject matter contained in the  
5 Bond Ordinance.

6 This notice constitutes compliance with § 6-14-6 NMSA 1978.

7 WITNESS my hand as of September 19, 2018.

8 \_\_\_\_\_  
9 Executive Director

10 (End of Summary of Ordinance for Publication)

11  
12 PASSED AND ADOPTED THIS 19<sup>TH</sup> DAY OF SEPTEMBER, 2018.  
13 BY A VOTE OF \_\_\_\_ FOR AND \_\_\_\_ AGAINST.

14  
15  
16 \_\_\_\_\_  
17 Chair

18 ATTEST:

19  
20  
21 \_\_\_\_\_  
22 Secretary

23  
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**FINANCING SCHEDULE**  
**ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY**  
**Joint Water and Sewer System Revenue Bonds,**  
**Series 2018**


JULY 2018						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

AUGUST 2018						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

SEPTEMBER 2018						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23/30	24	25	26	27	28	29

OCTOBER 2018						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	<del>31</del>			

 ABCWUA Board Meetings

 Closing Date

DATE	ACTION	RESPONSIBLE PARTIES
Friday, July 20, 2018 11:00 a.m. at Forque	Finance Team All Hands Meeting  Distribute Draft Financing Schedule	All
Wednesday, August 1, 2018	Distribute Draft Bond Ordinance and Confirming Resolution	Modrall
Friday, August 3, 2018	Distribute Draft Preliminary Official Statement	Modrall

<b>DATE</b>	<b>ACTION</b>	<b>RESPONSIBLE PARTIES</b>
Thursday, August 9, 2018	Comments due on Bond Ordinance and Confirming Resolution	All
Monday, August 13, 2018	Comments due on Preliminary Official Statement	All
Tuesday, August 14, 2018	Distribute Revised Drafts of Ordinance, Confirming Resolution, Preliminary Official Statement, and Disclosure Memo for August 22 <sup>nd</sup> Board Packets	Modrall
Wednesday, August 22, 2018 (5:00 pm)	First Reading of Bond Ordinance and Confirming Resolution	ABCWUA RBC Modrall
Tuesday, August 28, 2018	Distribute Draft Bond Purchase Agreement	Underwriters' Counsel
Thursday, August 30, 2018	Submit Notice of Meeting and Intent to Adopt Ordinance to the <i>Albuquerque Journal</i> for publication on Monday, September 3, 2018	Modrall
Monday, September 3, 2018	Publish Notice of Meeting and Intent to Adopt Ordinance in the <i>Albuquerque Journal</i>	Newspaper
Tuesday, September 4, 2018	Due diligence call for Preliminary Official Statement	All
Wednesday, September 5, 2018	Comments due on Draft of Preliminary Official Statement, Bond Ordinance, Confirming Resolution and Bond Purchase Agreement	All
Thursday, September 6, 2018	Items due to Rating Agencies	ABCWUA RBC

<b>DATE</b>	<b>ACTION</b>	<b>RESPONSIBLE PARTIES</b>
Wednesday, September 12, 2018	Distribute Revised Drafts of Bond Ordinance, Confirming Resolution and Bond Purchase Agreement for Board packets	Modrall Underwriters' Counsel
Week of September 17 <sup>th</sup> , 2018	Rating Presentations	ABCWUA RBC Modrall
Wednesday, September 19, 2018 (5:00 pm)	ABCWUA Governing Board adopts Bond Ordinance and Confirming Resolution Delegating Authority to Approve Final Pricing to Delegate	All
Thursday, September 20, 2018 (by 9:00 am)	Submit Notice of Adoption of Ordinance and Resolution to the <i>Albuquerque Journal</i> for publication on Saturday, September 22, 2018	Modrall
Saturday, September 22, 2018	Publish Notice of Adoption of Ordinance and Resolution in the <i>Albuquerque Journal</i>	Newspaper
Wednesday-Thursday September 26-27, 2018	Federal Reserve Meetings	
Friday, October 5, 2018	Post Preliminary Official Statement for Electronic Distribution	Modrall
Monday, October 15, 2018	Market Update and Pre-Pricing Call	Underwriters ABCWUA RBC
Tuesday, October 16, 2018	Bond Pricing  Delegate Executes Bond Purchase Agreement and Pricing Certificate	All

<b>DATE</b>	<b>ACTION</b>	<b>RESPONSIBLE PARTIES</b>
Wednesday, October 17, 2018 (5:00 pm)	Delegate Reports Results of Bond Pricing in the Pricing Certificate to Board as Informational Item at ABCWUA Regular Meeting – No Board Action Required  Distribute Draft of Official Statement to working group	ABCWUA RBC Modrall
Monday, October 22, 2018	Distribute Draft Closing Documents  Comments due on Official Statement and Final Official Statement to Printer for electronic distribution	Modrall
Tuesday, October 23, 2018	30-day Limitation of Action Period expires	ABCWUA
Thursday, October 25, 2018	Comments due on Closing Documents	All
Friday October 26, 2018	Pre-Closing / Document Signing	All
Monday, October 29, 2018	Send Bonds to DTC for Closing	Modrall
Wednesday, October 31, 2018	Closing via Telephone	All

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NOTICE  
\$83,000,000\*  
ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY  
Senior Lien Joint Water and Sewer System Improvement Revenue Bonds  
Series 2018

Preliminary Official Statement, subject to completion,  
dated October 5, 2018

The Preliminary Official Statement, dated October 5, 2018 (the "Preliminary Official Statement"), relating to the above-described bonds (the "Series 2018 Bonds" or the "Bonds") of the Albuquerque Bernalillo County Water Utility Authority (the "Water Authority" or "Authority"), has been posted as a matter of convenience. A copy of the Preliminary Official Statement is available from the Water Authority, One Civic Plaza, N.W., Room 5012, Albuquerque, New Mexico 87102, Attn: Office Coordinator, by electronic mail or upon payment of reasonable copying, handling, and delivery charge. The posted version of the Preliminary Official Statement has been formatted in word-searchable Adobe Portable Document Format. Although this format should replicate the Preliminary Official Statement available from the Water Authority, appearance may vary for a number of reasons, including electronic communication difficulties or particular user software or hardware. Using software other than Adobe Acrobat may cause the Preliminary Official Statement that you view or print to differ in appearance from the Preliminary Official Statement.

This Official Statement speaks only as of its date, and the information contained herein is subject to change. A copy of the Official Statement will be filed with the Municipal Securities Rulemaking Board ("MSRB") through its Electronic Municipal Market Access ("EMMA") system. See "APPENDIX E – FORM OF CONTINUING DISCLOSURE UNDERTAKING" for a description of the Water Authority's undertaking to provide certain information on a continuing basis.

*The Preliminary Official Statement and the information contained therein are subject to completion, amendment or other change without notice. Under no circumstances shall the Preliminary Official Statement constitute an offer to sell or the solicitation of an offer to buy nor shall there be any sale of the Bonds in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such jurisdiction.*

For purposes of Rule 15c2-12 promulgated by the United States Securities and Exchange Commission, the Preliminary Official Statement alone, and no other document or information on the Internet, constitutes an "official statement" that the Water Authority has "deemed final" as of its date with respect to the Bonds, except for certain information permitted to be omitted therefrom.

No person has been authorized to give any information or to make any representations other than those contained in the Preliminary Official Statement in connection with the offer and sale of the Bonds and, if given or made, such information or representations must not be relied upon as having been authorized. The information and expressions of opinion in the Preliminary Official Statement are subject to change without notice and neither the delivery of the Official Statement nor any sale made thereunder shall, under any circumstances, create any implication that there has been no change in the affairs of the Water Authority since the date of the Preliminary Official Statement.

INVESTORS SHOULD READ THE ENTIRE OFFICIAL STATEMENT, INCLUDING ALL APPENDICES ATTACHED HERETO, TO OBTAIN INFORMATION ESSENTIAL TO MAKING AN INFORMED INVESTMENT DECISION WITH RESPECT TO THE BONDS.

By choosing to proceed and view the electronic version of the Preliminary Official Statement, you acknowledge that you have read and understood this Notice.

**Preliminary Official Statement dated October 5, 2018**

\*Preliminary, subject to change.

## PRELIMINARY OFFICIAL STATEMENT DATED OCTOBER 5, 2018

New Issue – Book-Entry Only

S&P: “Applied For”  
Moody’s: “Applied For”

*In the opinion of Modrall, Sperling, Roehl, Harris & Sisk, P.A., Bond Counsel under the existing laws, regulations, rulings and judicial decisions and assuming continuous compliance with certain covenants set forth in the documents relating to the Series 2018 Bonds (defined herein) and certain requirements of the Internal Revenue Code of 1986, as amended (the “Code”), as described herein, interest on the Series 2018 Bonds is (a) excludable from gross income of the owners thereof for federal income tax purposes under Section 103 of the Code and (b) is not a specific preference item for purposes of the federal alternative minimum tax for individuals. Bond Counsel is also of the opinion based on existing laws of the State of New Mexico as enacted and construed that interest on the Series 2018 Bonds is exempt from all taxation by the State of New Mexico or any political subdivision thereof. Bond Counsel expresses no opinion regarding any other tax consequences relating to the ownership or disposition of, or the accrual or receipt of interest on, the Series 2018 Bonds. See “TAX MATTERS” herein.*

**\$83,000,000\***

### **ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY Senior Lien Joint Water and Sewer System Improvement Revenue Bonds, Series 2018**

**Dated:** Date of Delivery

**Due:** July 1, as shown on inside cover

The Albuquerque Bernalillo County Water Utility Authority Senior Lien Joint Water and Sewer System Improvement Revenue Bonds, Series 2018 (the “Series 2018 Bonds” or the “Bonds”) are issued as fully registered bonds in denominations of \$5,000 or integral multiples thereof. The Depository Trust Company, New York, New York (“DTC”) will act as securities depository for the Series 2018 Bonds through its nominee, Cede & Co. One fully registered bond equal to the principal amount of each maturity of the Series 2018 Bonds will be registered in the name of Cede & Co. Individual purchases of Series 2018 Bonds will be made in book-entry form only, and beneficial owners of the Series 2018 Bonds will not receive physical delivery of bond certificates representing their ownership of the Series 2018 Bonds, except as described herein. Upon receipt of payments of principal and interest, DTC will remit such payments to the DTC participants for subsequent disbursement to the beneficial owners of the Series 2018 Bonds, as more fully described herein.

The Bonds are being issued pursuant to the Constitution of the State of New Mexico (the “State”), the laws of the State, a bond ordinance (the “Bond Ordinance”) adopted by the Authority Board (the “Board”) of the Albuquerque Bernalillo County Water Utility Authority (the “Water Authority”) on September 19, 2018, and a Confirming Resolution (the “Resolution”) also adopted on September 19, 2018, delegating the authority to approve final sale terms to an authorized delegate of the Water Authority (the “Delegate”).

The Series 2018 Bonds are being issued to provide funds for: (i) acquiring additional water and sewer system (the “System”) assets, and extending, repairing, replacing and improving the Water and Sewer System, and (ii) the payment of costs of issuance related to the Series 2018 Bonds.

Interest on the Series 2018 Bonds will be payable semiannually on each January 1 and July 1, commencing January 1, 2019. Payments of principal of and interest on the Series 2018 Bonds will be made directly to DTC or its nominee, Cede & Co., by the Chief Financial Officer of the Water Authority, as Paying Agent, so long as DTC or Cede & Co. is the sole registered owner. Principal of the Series 2018 Bonds is payable on the dates and interest is payable at the rates shown on the Maturity Schedule set forth on the inside cover.

#### **SEE MATURITY SCHEDULE ON INSIDE COVER OF THIS OFFICIAL STATEMENT**

The Series 2018 Bonds may be subject to optional and mandatory sinking fund redemption as described herein.

**The Series 2018 Bonds are special, limited obligations of the Water Authority, payable solely from and secured by the Net Revenues of the Water Authority’s Joint Water and Sewer System. The lien of the Series 2018 Bonds on the Net Revenues is on parity with the Senior Obligations of the Water Authority (currently outstanding in the aggregate principal amount of \$\_\_\_\_\_). The issuance of the Series 2018 Bonds shall not, directly, indirectly or contingently, obligate the State or any political subdivision thereof to levy any form of taxation therefor or to make any appropriation for their payment. The Water Authority does not have taxing power.**

In connection with the issuance of the Series 2018 Bonds, the Water Authority will commit to provide certain annual information and notice of certain significant events as described herein under the caption “CONTINUING DISCLOSURE UNDERTAKING.” The Series 2018 Bonds are offered when, as, and if issued by the Water Authority and purchased by the Underwriters and subject to the delivery of approving opinions by Modrall, Sperling, Roehl, Harris & Sisk, P.A., and certain other conditions. Certain legal matters will be passed on for the Water Authority by its Contract Counsel, Stelzner, Winter, Warburton, Flores, Sanchez & Dawes, P.A., and by Modrall, Sperling, Roehl, Harris & Sisk, P.A., Disclosure Counsel. RBC Capital Markets, LLC serves as Financial Advisor to the Authority. Certain legal matters will be passed on for the Underwriters by Norton Rose Fulbright US LLP. Delivery of the Series 2018 Bonds is expected on or about October 31, 2018 through the facilities of DTC, against payment therefor.

**J.P. MORGAN  
BAIRD**

Official Statement dated September \_\_, 2018

\*Preliminary, subject to change.

## MATURITY SCHEDULE

**\$83,000,000\***

**ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY**  
**Senior Lien Joint Water and Sewer System Improvement Revenue Bonds**  
**Series 2018**

<b>Maturity Date (July 1)</b>	<b>Principal Amount*</b>	<b>Interest Rate</b>	<b>Price or Yield</b>	<b>Cusip No.†</b>
2019				
2020				
2021				
2022				
2023				
2024				
2025				
2026				
2027				
2028				
2029				
2030				
2031				
2032				
2033				
2034				
2035				

†The above referenced CUSIP numbers have been assigned by an independent company not affiliated with the parties to this bond transaction and are included solely for the convenience of the holders of the Series 2018 Bonds. CUSIP is a registered trademark of the American Bankers Association. CUSIP data herein is provided by CUSIP Global Services, managed by S&P Capital IQ on behalf of The American Bankers Association. This data is not intended to create a database and does not serve in any way as a substitute for the CUSIP Services. Neither the Water Authority nor the Underwriters take any responsibility for the selection or uses of such CUSIP numbers, and no representation is made as to their correctness on the Series 2018 Bonds or as indicated above. The CUSIP number for a specific maturity is subject to being changed after the issuance of the Series 2018 Bonds as a result of various subsequent actions including, but not limited to, a refunding in whole or in part of such maturity or as a result of the procurement of secondary market portfolio insurance or other similar enhancement by investors that is applicable to all or a portion of certain maturities.

\*Preliminary, subject to change.



# **ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY**

## **WATER UTILITY AUTHORITY BOARD**

Councilor Trudy E. Jones, Chair  
Commissioner Debbie O'Malley, Vice-Chair  
Mayor Timothy M. Keller  
Councilor Pat Davis  
Commissioner Steven Michael Quezada  
Councilor Klarissa J. Peña  
Commissioner Lonnie C. Talbert  
Trustee Pablo R. Rael (ex-officio member)

## **WATER UTILITY AUTHORITY ADMINISTRATION**

Mark Sanchez, Executive Director  
John Stomp, P.E., Chief Operating Officer  
Stan Allred, Chief Financial Officer  
Hobert "H" Warren, Field Operations Manager  
Charles S. Leder, P.E., Plant Operations Manager  
David J. Price, P.E., Engineering and Planning Manager  
Cody R. Stinson, Chief Information Officer  
Peter Auh, Esq., General Counsel  
David Morris, Public Affairs Manager  
Frank Roth, Senior Policy Manager  
Judy Bentley, Human Resources Manager  
Mark Kelly, P.E., Compliance Manager  
Katherine Yuhas, Water Resources Manager

## **REGISTRAR AND PAYING AGENT**

Chief Financial Officer  
Albuquerque Bernalillo County Water Utility Authority

## **BOND AND DISCLOSURE COUNSEL**

Modrall, Sperling, Roehl, Harris & Sisk, P.A.  
Albuquerque, New Mexico

## **AUTHORITY COUNSEL**

Stelzner, Winter, Warburton, Flores, Sanchez & Dawes, P.A.  
Albuquerque, New Mexico

## **FINANCIAL ADVISOR**

RBC Capital Markets, LLC  
Albuquerque, New Mexico

No dealer, salesperson or other person has been authorized by the Water Authority or the Underwriters to give any information or to make any statements or representations, other than those contained in this Official Statement, and, if given or made, such other information, statements or representations must not be relied upon as having been authorized. This Official Statement does not constitute an offer to sell or solicitation of an offer to buy any of the Series 2018 Bonds in any jurisdiction in which such offer or solicitation is not authorized, or in which any person making such offer or solicitation is not qualified to do so, or to any person to whom it is unlawful to make such offer or solicitation in such jurisdiction. The information set forth or included in this Official Statement has been provided by the Water Authority and from other sources believed by the Water Authority to be reliable. The information and expressions of opinion herein are subject to change without notice, and neither the delivery of this Official Statement nor any sale hereunder shall create any implication that there has been no change in the financial condition or operations of the Water Authority described herein since the date hereof. This Official Statement contains, in part, estimates and matters of opinion that are not intended as statements of fact, and no representation or warranty is made as to the correctness of such estimates and opinions or that they will be realized.

The Underwriters have provided the following sentence for inclusion in this Official Statement: the Underwriters have reviewed the information in this Official Statement in accordance with, and as part of, their responsibilities to investors under the federal securities laws as applied to the facts and circumstances of this transaction, but the Underwriters do not guarantee the accuracy or completeness of such information.

The Series 2018 Bonds have not been registered under the Securities Act of 1933 in reliance upon exemptions contained in such Act. The registration and qualification of the Series 2018 Bonds in accordance with applicable provisions of the securities law of the states in which the Series 2018 Bonds have been registered or qualified and the exemption from registration or qualification in other states cannot be regarded as a recommendation thereof. None of the United States Securities and Exchange Commission (the "SEC") or any other federal, state, municipal or other governmental entity, or any agency or department thereof, has passed upon the merits of the Series 2018 Bonds or the accuracy or completeness of this Official Statement. Any representation to the contrary may be a criminal offense.

This Official Statement is "deemed final" by the Water Authority for purposes of Rule 15c2-12 of the SEC. The Water Authority has covenanted to provide such annual financial statements and other information in the manner as may be required by regulations of the SEC or other regulatory body.

This Official Statement contains statements that are "forward-looking statements" as defined in the Private Securities Litigation Reform Act of 1995. When used in this Official Statement, the words "estimate," "project," "intend," "expect" and similar expressions are intended to identify forward-looking statements. Such statements are subject to risks and uncertainties that could cause actual results to differ materially from those contemplated in such forward-looking statements. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date hereof.

THE PRICES AT WHICH THE SERIES 2018 BONDS ARE OFFERED TO THE PUBLIC BY THE UNDERWRITERS (AND THE YIELDS RESULTING THEREFROM) MAY VARY FROM THE INITIAL PUBLIC OFFERING PRICES OR YIELDS APPEARING ON THE INSIDE COVER PAGE HEREOF. IN ADDITION, THE UNDERWRITERS MAY ALLOW CONCESSIONS OR DISCOUNTS FROM SUCH INITIAL PUBLIC OFFERING PRICES TO DEALERS AND OTHERS. IN CONNECTION WITH THE OFFERING OF THE SERIES 2018 BONDS, THE UNDERWRITERS MAY EFFECT TRANSACTIONS THAT STABILIZE OR MAINTAIN THE MARKET PRICE OF THE SERIES 2018 BONDS AT A LEVEL ABOVE THAT WHICH MIGHT OTHERWISE PREVAIL IN THE OPEN MARKET. SUCH STABILIZING, IF COMMENCED, MAY BE DISCONTINUED AT ANY TIME.

IN MAKING AN INVESTMENT DECISION INVESTORS MUST RELY ON THEIR OWN EXAMINATION OF THE WATER AUTHORITY AND THE TERMS OF THE OFFERING, INCLUDING THE MERITS AND RISKS INVOLVED.

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## OFFICIAL STATEMENT

\$83,000,000\*

ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY  
Senior Lien Joint Water and Sewer System Improvement Revenue Bonds  
Series 2018

### INTRODUCTION

This Official Statement, which includes the cover page, inside cover and appendices hereto, provides certain information in connection with the offer and sale of the Senior Lien Joint Water and Sewer System Improvement Revenue Bonds, Series 2018 (the "Series 2018 Bonds" or "Bonds") by the Albuquerque Bernalillo County Water Utility Authority (the "Water Authority" or "Authority").

**Capitalized terms used herein and not defined have the meanings specified in Water Authority Ordinance WUA O-18-\_\_ and Water Authority Resolution No. WUA R-18-\_\_ adopted by the Authority on September 19, 2017 (collectively, the "Bond Ordinance"). See "DESCRIPTION OF BOND ORDINANCE - Definitions" in Appendix C hereto.**

*This introduction is not a summary of this Official Statement. It is only a brief description of and guide to, and is qualified by more complete and detailed information contained in the entire Official Statement, including the cover page and appendices hereto, and the documents summarized or described herein. A full review should be made of the entire Official Statement. The offering of Series 2018 Bonds to potential investors is made only by means of the entire Official Statement.*

### **Albuquerque Bernalillo County Water Utility Authority**

The joint water and wastewater system (the "System") is owned and operated by the Water Authority pursuant to Section 72-1-10 NMSA 1978. The Water Authority has the statutory powers provided to all public water and wastewater utilities in the State and is recognized as a political subdivision of the State of New Mexico (the "State"). [The Water Authority has a minimal relationship with the City of Albuquerque (the "City") under the current Memorandum of Understanding, dated July 1, 2013, by and between the Water Authority and the City, which expired in 2018 but has been extended for one year by mutual agreement of the parties. These ties include the Water Authority's rental of space and computer equipment from the City and Water Authority employees may participate in certain City employment benefits such as medical, dental, vision and life insurance.] Other than these limited connections, the Water Authority operates independently of the City and Bernalillo County, New Mexico (the "County").

The Water Authority's Board (the "Board") governs the System for all of the City and County. The Water Authority's governing board includes three Bernalillo County Commissioners, three Albuquerque City Councilors, the Mayor of Albuquerque and a Village of Los Ranchos de Albuquerque Trustee as an Ex Officio member. The current members of the

\*Preliminary, subject to change.

governing board are as follows: Councilor Trudy E. Jones, Chair; Commissioner Debbie O'Malley, Vice-Chair; Mayor Timothy M. Keller; Councilor Pat Davis; Commissioner Steven Michael Quezada; Councilor Klarissa J. Peña, Commissioner Lonnie C. Talbert and Trustee Pablo R. Rael, Ex-Officio (non-voting). The Executive Director of the Water Authority is Mark Sanchez.

The Water Authority is focused regionally on providing a safe and sustainable water supply for the next 100-years. The new water supply plan, entitled Water 2120, consists of multiple policies to guide water resources management for the Water Authority including additional water conservation, reuse for irrigation and indirect potable reuse, protection of watersheds and the environment. The plan also includes preserving and protecting the aquifer for the long-term by adopting a new groundwater management plan that reduces overall use of the aquifer and preserves portions of it for generations to come. The Water Authority is utilizing an asset management approach to infrastructure including replacing or renovating existing surface and groundwater treatment and distribution systems and sewer collection and wastewater treatment facilities. In addition, it is working towards realizing better management efficiencies for rate payers and providing long range planning and delivery for water and wastewater in the service area

### **Purpose of the Bonds**

Proceeds from the sale of the Series 2018 Bonds will be used to provide funds for (i) acquiring additional System assets through regular System improvements, expansion, maintenance, and upgrades pursuant to the Water Authority's Basic Capital Program, and (ii) payment of costs of issuance of the Series 2018 Bonds.

### **Authority for Issuance**

The Series 2018 Bonds are issued under the authority of and pursuant to the Constitution and laws of the State, and all enactments of the Board relating to the issuance of the Series 2018 Bonds.

### **Security and Sources of Payment for the Bonds**

#### *Special Limited Obligations*

The Series 2018 Bonds are special, limited obligations of the Water Authority, payable solely from Net Revenues, money on deposit in certain of the funds and accounts held under the Bond Ordinance, and the earnings thereon. As long as the Series 2018 Bonds are outstanding, the Bond Ordinance prohibits the Water Authority from issuing additional System Obligations with a lien on Net Revenues prior and superior to the lien of the Series 2018 Bonds. System Obligations with a lien on Net Revenues on parity with the Series 2018 Bonds or subordinate thereto may be issued under certain circumstances as set forth in the Bond Ordinance. See "DESCRIPTION OF THE SERIES 2018 BONDS – Issuance of Additional System Obligations."

### *Net Revenues*

Net Revenues are the Gross Revenues of the System after deducting Operation and Maintenance Expenses. Gross Revenues include all income and revenues directly or indirectly derived by the Water Authority from the operation and use of the System. Operation and Maintenance Expenses include all reasonable and necessary current expenses of the System related to operating, maintaining and repairing the System. See "The Joint Water and Sanitary Sewer System" under this caption and "SECURITY AND SOURCES OF PAYMENT."

### **Outstanding Senior Obligations and Subordinate Obligations**

Upon issuance, the Series 2018 Bonds will have a lien on Net Revenues that is on parity with the lien of the following Outstanding Senior Obligations:

Joint Water and Sewer System Improvement Revenue Bonds, Series 2009A-1;  
New Mexico Finance Authority Drinking Water State Revolving Fund Loan Agreement (2009);  
New Mexico Finance Authority Public Project Revolving Fund Loan Agreement (2011);  
Joint Water and Sewer System Improvement and Refunding Revenue Bonds, Series 2013A&B;  
Senior Lien Joint Water and Sewer System Refunding Revenue Bonds, Series 2014A;  
Senior Lien Joint Water and Sewer System Refunding and Improvement Revenue Bonds, Series 2015;  
Senior Lien Joint Water and Sewer System Refunding and Improvement Revenue Bonds, Series 2017;  
New Mexico Finance Authority Drinking Water State Revolving Fund Loan Agreement #4200 (2018); and  
New Mexico Finance Authority Drinking Water State Revolving Fund Loan Agreement #4202 (2018).

Upon issuance, the Series 2018 Bonds will have a lien on Net Revenues that is senior to the lien of the following Outstanding Subordinate Obligations:

New Mexico Finance Authority Drinking Water State Revolving Fund Loan Agreement (2008); and  
Subordinate Lien Joint Water and Sewer System Refunding and Improvement Revenue Bonds, Series 2014B.

All the Outstanding Senior Obligations were issued pursuant to ordinances and resolutions adopted by the Authority, and are more fully described in "SECURITY AND SOURCES OF PAYMENT - Outstanding System Obligations - Senior Obligations." The total principal amount of the Outstanding Senior Obligations after delivery of the Series 2018 Bonds is expected to be approximately \$561,770,498\*.

All the Outstanding Subordinate Obligations were issued pursuant to ordinances and resolutions adopted by the Authority, and are more fully described in "SECURITY AND SOURCES OF PAYMENT - Outstanding System Obligations - Subordinate and Super Subordinated Obligations." The total principal amount of the Outstanding Subordinate

Obligations as of September 1, 2018 was \$65,725,187. The Water Authority has no outstanding Super Subordinated Obligations.

### **Protective Covenants**

The Water Authority covenants in the Bond Ordinance to charge all purchasers of services of the System reasonable and just rates sufficient to produce Net Revenues annually to pay 133% of the annual Debt Service Requirements on all Senior Obligations and to pay 120% of the annual Debt Service Requirements on all Senior Obligations and Subordinate Obligations. See "SECURITY AND SOURCES OF PAYMENT - Estimated Total Combined Debt Service and Coverage Ratios" and "DESCRIPTION OF BOND ORDINANCE - Protective Covenants" in Appendix C hereto.

### **The Joint Water and Sanitary Sewer System**

The Water System provides water services to approximately 670,779 residents comprising approximately 95% of the residents of the County. About one-third of unincorporated County residents are customers of the Water System. As of January 1, 2018, service is provided to approximately 208,140 customer accounts, including 186,301 residential and 21,839 multi-family, commercial, institutional and industrial accounts. Approximately 50% of the water sales are for residential uses.

Groundwater from the middle Rio Grande basin aquifer and the surface water from the San Juan-Chama Drinking Water Project are the primary sources of supply used for the Water System. In calendar year 2017, the Water Authority's water resources use consisted of 28.9% from groundwater and 69.9% from San Juan-Chama surface water and 1.5% from reuse of treated effluent for irrigation. The groundwater supply is produced from 60 wells grouped in 17 well fields located throughout the metropolitan area and the surface water is diverted from the Rio Grande. Total well production capacity is approximately 255 million gallons per day ("MGD"). Eliminating high arsenic wells (those greater than 10 parts per billion arsenic) results in available production capacity of 176 MGD. Maximum historical peak day demand is 214 MGD. A chlorination station associated with each well field satisfies the total required water treatment needs for the water produced in each well field. See "JOINT WATER AND SANITARY SEWER SYSTEM OF THE AUTHORITY."

The Sanitary Sewer System (the "Sewer System" or "Wastewater System") consists of small diameter collector sewers, sewage lift stations, and large diameter interceptor sewers conveying wastewater flows by gravity to the Southside Water Reclamation Plant. The reclamation plant provides preliminary screening, grit removal, primary clarification and sludge removal, advanced secondary treatment for nutrient removal, final clarification, and effluent ultraviolet disinfection prior to discharge in the Rio Grande. See "JOINT WATER AND SANITARY SEWER SYSTEM OF THE AUTHORITY."



## **Terms of the Bonds**

### *Payments*

The Series 2018 Bonds will be dated the date of initial delivery to the Underwriters. Interest on the Series 2018 Bonds is payable on January 1 and July 1 of each year, commencing January 1, 2019. The Series 2018 Bonds will mature on July 1 of the years and in the amounts and will bear the interest rates shown on the inside front cover.

### *Record Date*

The record date for the Series 2018 Bonds is the fifteenth day of the calendar month preceding each January 1 and July 1.

### *Denominations*

The Series 2018 Bonds will be issued in denominations of \$5,000, or integral multiples thereof.

### *Book-Entry Only System*

Individual purchases will be made in book-entry form only and purchasers of the Series 2018 Bonds will not receive physical delivery of bond certificates. Payments of principal of and interest on the Series 2018 Bonds will be made directly to The Depository Trust Company, New York, New York ("DTC") or its nominee, Cede & Co., by the Water Authority's Chief Financial Officer, or its successor, as Paying Agent (the "Paying Agent"), so long as DTC or Cede & Co. is the sole registered owner. DTC will remit such payments to the DTC participants for subsequent disbursement to the beneficial owners of the Bonds, all as more fully described in "DESCRIPTION OF THE SERIES 2018 BONDS - Book-Entry Only System." *While the Series 2018 Bonds are in book-entry only form, references in this Official Statement to Owners should be read to include the person for whom the DTC Participant acquires an ownership interest in the Bonds, but (i) all rights of ownership must be exercised through DTC and the book-entry only system, and (ii) notices that are to be given to Owners by the Authority or the Paying Agent will be given only to DTC.*

### *Redemption of the Series 2018 Bonds*

The Series 2018 Bonds may be subject to optional and mandatory sinking fund redemption prior to maturity at the redemption prices and during the periods described under "DESCRIPTION OF THE SERIES 2018 BONDS – Redemption Prior to Maturity."

### *Issuance of Additional System Obligations*

The Water Authority must meet certain tests prior to the issuance of additional Senior Obligations and Subordinate Obligations. For a description of these tests and consents, see "DESCRIPTION OF THE SERIES 2018 BONDS - Issuance of Additional System Obligations." The Water Authority may incur or issue Super Subordinated Obligations payable from Net

John R. Cooney  
James M. Parker  
Arthur D. Melendres  
James P. Houghton  
Paul M. Fish  
R. E. Thompson  
Ruth M. Schifani  
Lynn H. Slade  
Larry P. Ausherman  
Douglas R. Vadnais  
Walter E. Stern III  
Martha G. Brown  
Tim L. Fields  
Earl E. DeBrine, Jr.  
Timothy C. Holm  
George R. McFall  
Roberta Cooper Ramo  
Stuart R. Butzier  
Donald A. DeCandia  
Margaret L. Meister  
Peter L. Franklin  
Jennifer A. Noya  
Zachary L. McCormick  
Marjorie A. Rogers  
Karen L. Kahn  
Christopher P. Muirhead  
Maria O'Brien  
Stan N. Harris  
Marco E. Gonzales  
Michelle A. Hernandez  
Jennifer G. Anderson  
Joan E. Drake  
Alex C. Walker  
Susan M. Bisong  
Emil J. Kiehne  
Brian K. Nichols  
Megan T. Muirhead  
Nadine E. Shea  
Anna E. Indahl  
Deana M. Bennett  
Tiffany L. Roach Martin  
Daniel M. Alsop  
Spencer L. Edelman  
Nathan T. Nieman  
Christina C. Sheehan  
Andrew B. Indahl  
Jeremy K. Harrison  
Sarah M. Stevenson  
Katherine M. Creagan  
Elizabeth A. Martinez  
Jennifer L. Bradfute  
Sonya R. Burke  
Mia L. Kern  
Emily P. Chase-Sosnoff  
Tomas J. Garcia  
Zoë E. Lees  
Meghan H. Mead  
Vanessa C. Kaczmarek  
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Mayor Timothy M. Keller  
Councilor Pat Davis  
Commissioner Debbie O'Malley  
Councilor Klarissa J. Peña  
Commissioner Lonnie C. Talbert  
Trustee Pablo R. Rael (ex-officio member)

From: Chris Muirhead & Katherine McKinney, Modrall Sperling Law Firm

Date: September 19, 2018

Re: Albuquerque Bernalillo County Water Utility Authority Senior Lien Joint Water and Sewer System Improvement Revenue Bonds, Series 2018

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The attached Preliminary Official Statement (the "POS") has been prepared in connection with the offering and sale of the Albuquerque Bernalillo County Water Utility Authority Senior Lien Joint Water and Sewer System Improvement Revenue Bonds, Series 2018 (the "Bonds"). The POS makes various disclosures about the Authority, the Bond Ordinance, and the Bonds. The POS will be reviewed by potential investors in the Bonds, and the final Official Statement will be provided to the bond purchaser after the Bonds are sold to the Underwriters of the Bonds.

The attached POS is similar to the one used when other revenue bonds were issued by the Authority in 2017. The information has been updated by Authority staff. Chris Muirhead and Katherine McKinney, the Authority's Bond and Disclosure Counsel and Erik Harrigan of RBC Capital Markets, LLC, the Authority's Financial Advisor, assisted in the disclosure process by assembling the information, attending disclosure conferences and reviewing the financial and economic data in the POS. In connection with the preparation of the POS, Authority staff has participated in due diligence meetings and conference calls. During those meetings and calls Authority staff discussed, confirmed and updated information contained in the POS, examined information for materiality, and identified additional information for inclusion. If you have any questions relating to the disclosure process and preparation of the POS, please contact our office and we are happy to discuss in detail.

The POS is provided to you for review to as a result of enforcement actions by the U.S. Securities and Exchange Commission (the "SEC") against the board of Supervisors of Orange County, California, and more recently against other issuers throughout the United States. The SEC has stated that:

"Public entities that issue securities are primarily liable for the content of their disclosure documents.... In addition to the government entity issuing municipal securities, public officials of

the issuer who have ultimate authority to approve the issuance of securities and related disclosure documents have responsibilities under the federal securities laws as well. In authorizing the issuance of the securities and related disclosure documents, a public official may not authorize disclosure that the official knows to be false; nor may the public official authorize disclosure while recklessly disregarding facts that indicate that there is a risk that the disclosure may be misleading.”

In addition to the Orange County proceedings, the SEC has also pursued enforcement actions in Miami-Dade County in Florida, San Diego, California and New Jersey.

Although Authority staff and the finance and legal team collaborated in preparing the POS, each Authority Board member should review it carefully. The POS is an Authority document, and the Authority and Board are responsible for its accuracy. Please use extra care in reviewing the sections labeled “SECURITY AND SOURCES OF PAYMENT,” “JOINT WATER AND SANITARY SEWER SYSTEM OF THE AUTHORITY,” and “FINANCIAL INFORMATION.” In conducting your review, focus on whether the POS contains misleading statements of material facts or omits to state material facts. A material fact is one that could influence an investor in making a decision to purchase the Bonds.

After reviewing the POS, please contact Authority staff or our office if you have any reason to believe that the POS contains any inaccurate information or if you know of anything that might make any of the statements made in the POS incomplete or misleading. Thank you for your attention to this important matter.

Revenues without restriction. As long as the Senior Obligations are outstanding, the Water Authority is prohibited from issuing System Obligations with a lien on Net Revenues superior to the lien of the Outstanding Senior Obligations.

### **Tax Considerations**

In the opinion of Modrall, Sperling, Roehl, Harris & Sisk, P.A., Bond Counsel, under existing laws, regulations, rulings and judicial decisions, and assuming compliance with certain covenants in the documents relating to the Series 2018 Bonds and requirements of the Internal Revenue Code of 1986, as amended (the "Code"), interest on the Series 2018 Bonds is excludable from the gross income of the recipients thereof for federal income tax purposes and is not a specific preference item for purposes of the alternative minimum tax for individuals, and is exempt from all taxation by the State or any political subdivision of the State. For a more complete description of such opinion of Bond Counsel and a description of certain provisions of the Internal Revenue Code of 1986, as amended, which may affect the federal tax treatment of interest on the Series 2018 Bonds for certain owners of such bonds, see "TAX MATTERS."

### **Continuing Disclosure Undertaking**

The Water Authority will execute a Continuing Disclosure Undertaking for the benefit of the Owners (the "Continuing Disclosure Undertaking") and will (i) provide audited financial statements and certain other financial information and operating data and (ii) file notices of certain specific significant events in accordance with Rule 15c2-12 promulgated under the Securities Exchange Act of 1934. See "CONTINUING DISCLOSURE UNDERTAKING" and Appendix E hereto.

Historically, the Water Authority has timely filed annual financial information and audited financial statements consistent with the terms of the Water Authority's outstanding Continuing Disclosure Undertakings and is in material compliance with these Undertakings. However, at the time the Water Authority filed annual financial information in March 2014 related to Fiscal Year 2013, the audited financial statement for such fiscal year was not complete and the Water Authority chose not to provide unaudited financial information. Prior to Fiscal Year 2014, the Water Authority's audited financial statements were interconnected with the City's financial system which had experienced problems and resultant delays. These delays resulted in the Water Authority having incomplete and unreliable financial information at the time the Water Authority was required to file such annual financial information. To avoid providing investors with unreliable information, the Water Authority waited until the respective audited financial statements were available and timely filed them with the Municipal Securities Rulemaking Board's Electronic Municipal Market Access System. The Water Authority's audited financial statements are no longer contingent on, or interconnected with, the completion of the City's audited financial statements and the Water Authority does not anticipate any problems with the timely completion of its audited financial statements or providing reliable unaudited financial information as necessary.

## **Professionals Involved in the Offering**

At the time of the issuance and sale of the Series 2018 Bonds, Modrall, Sperling, Roehl, Harris & Sisk, P.A., as Bond Counsel, will deliver the bond opinion included in Appendix D hereto. Certain legal matters relating to the Series 2018 Bonds will be passed on for the Water Authority by Stelzner, Winter, Warburton, Flores, Sanchez & Dawes, P.A., Contract Counsel, and by Modrall, Sperling, Roehl, Harris & Sisk, P.A., as Disclosure Counsel. Certain legal matters will be passed on for the Underwriters by Norton Rose Fulbright US LLP. See "LEGAL MATTERS."

RBC Capital Markets, LLC ("RBC") is employed as Financial Advisor to the Water Authority in connection with the issuance of the Series 2018 Bonds. The Financial Advisor's fee for services rendered with respect to the sale of the Series 2018 Bonds is contingent upon the issuance and delivery of the Series 2018 Bonds. RBC, in its capacity as Financial Advisor, has not verified and does not assume any responsibility for the possible impact of any present, pending or future actions taken by any legislative or judicial bodies. The Financial Advisor is not obligated to undertake, and has not undertaken to make, an independent verification of, or assume responsibility for, the accuracy, completeness, or fairness of the information in this Official Statement. The Financial Advisor may also receive a fee for conducting a competitive bidding process regarding the investment of certain proceeds of the Bonds.

## **Offering and Delivery of the Bonds**

The Series 2018 Bonds are offered when, as and if issued, subject to approval as to their legality by Bond Counsel and the satisfaction of other conditions. The Bonds will be delivered through the facilities of DTC on or about October 31, 2018.

## **Other Information**

This Official Statement speaks only as of its date, and the information contained herein is subject to change.

The quotations from, and summaries and explanations of the laws, regulations and documents contained herein do not purport to be complete and reference is made to the laws, regulations and documents for full and complete statements of their provisions. Copies of such laws, regulations and documents may be obtained, upon request and payment to the Water Authority of a charge for copying, mailing and handling, at One Civic Plaza, N.W., Room 5012, Albuquerque, New Mexico 87102, Attention: Office Coordinator.

Any statements in this Official Statement involving matters of opinion, whether or not expressly so stated, are intended as such and not as representations of fact. This Official Statement is not to be construed as a contract or agreement between the Water Authority and the Owners of any of the Series 2018 Bonds.

## **RISK FACTORS**

The ability of the Water Authority to pay principal of and interest on the Series 2018 Bonds depends primarily upon the receipt by the Water Authority of sufficient Net Revenues. Some of the events which could prevent the Water Authority from receiving a sufficient amount of Net Revenues to enable it to pay the principal of and interest on the Series 2018 Bonds are summarized below. The following description of risks is not intended to be an exhaustive list of the risks associated with the purchase of the Series 2018 Bonds and the order of the risks set forth below does not necessarily reflect the relative importance of the various risks.

### **Limited Obligations**

The obligation of the Water Authority to pay debt service on the Series 2018 Bonds is a limited obligation of the Water Authority and is not secured by a legal or equitable pledge or charge or lien upon any property of the Water Authority or any of its income or receipts, except the Net Revenues. The obligation of the Water Authority to pay debt service on the Series 2018 Bonds does not constitute an obligation of the Water Authority to levy or pledge any form of taxation or for which the Water Authority has levied or pledged any form of taxation. **The Water Authority does not have any taxing power.** The Water Authority is obligated under the Bond Ordinance to pay debt service on the Series 2018 Bonds and other System Obligations solely from Net Revenues.

Factors that can adversely affect the availability of Net Revenues include, among other matters, weather conditions (drought or excessive rainfall that may affect water sales), general and local economic conditions, and changes in law and government regulations (including initiatives and moratoriums on growth). The realization of future Net Revenues is also subject to, among other things, the capabilities of management of the Water Authority, the ability of the Water Authority to provide water and wastewater service to its customers, the ability of the Water Authority to establish, maintain and collect charges for the water and wastewater service to its customers and the ability of the Water Authority to establish, maintain and collect rates and charges sufficient to pay debt service on the Series 2018 Bonds and other System Obligations. See "SECURITY AND SOURCES OF PAYMENT."

### **System Operation and Maintenance Expenses and System Rates**

The operation and maintenance expenses of the System may increase in the coming years. Actual operation and maintenance expenses may be greater or less than projected. Factors such as changes in technology, regulatory standards, increased costs of material, energy, labor and administration can substantially affect System expenses. Although the Water Authority has covenanted to prescribe, revise and collect rates and charges in amounts sufficient to pay debt service on the Series 2018 Bonds and other System Obligations, there can be no assurance that such amounts will be collected. Increases in System rates could result in a decrease in demand for System usage. The Water Authority actively and successfully pursues conservation efforts that limit the use of water and have a corresponding negative effect on System revenues. See "JOINT WATER AND SANITARY SEWER SYSTEM OF THE AUTHORITY – Water System – Water Conservation Program." Over the past ten years, conservation efforts have resulted in an average water use decline of 29%.

## **Statutory and Regulatory Compliance**

Changes in the scope and standards for public agency water and wastewater systems, such as the System, may lead to increasingly stringent operating requirements and the imposition of administrative orders issued by Federal or State regulators. Future compliance with such requirements and orders can impose substantial additional costs on the Water Authority. In addition, claims against the System for failure to comply with applicable laws and regulations could be significant. Such claims are payable from assets of the System or from other legally available sources. No assurance can be given that the cost of compliance with such existing or future laws, regulations and orders would not adversely affect the ability of the System to generate Net Revenues sufficient to pay debt service on the Series 2018 Bonds and other System Obligations.

## **Risks Relating to the Water Supply**

The ability of the System to operate effectively can be affected by the water supply available to the Water Authority, which is situated in an arid environment that is currently subject to drought conditions. If the water supply decreases significantly, whether by operation of mandatory supply restrictions, prohibitively high water costs or otherwise, flow within the System will diminish and Net Revenues may be adversely affected.

## **Security of the System**

Damage to the System resulting from vandalism, sabotage, or terrorist activities may adversely impact the operations and finances of the System. There can be no assurance that the Water Authority's security, emergency preparedness and response plans will be adequate to prevent or mitigate such damage, or that the costs of maintaining such security measures will not be greater than currently anticipated. With these concerns in mind, the Water Authority completed a vulnerability assessment in mid-2018 and will be implementing the recommended security measures over the next three fiscal years. The Water Authority has obtained appropriate insurance coverage and established reserve funds, which may be used by the Water Authority, if other funds are not readily available and sufficient, to pay extraordinary and unexpected repair or replacement expenses of the System or liability claims related to the System.

## **Utility Costs**

No assurance can be given that any future significant reduction or loss of power would not materially adversely affect the operations of the System. The operations of the System on a daily basis require a significant amount of electrical power and natural gas. Electricity is needed to run pumps, lights, computers, mechanical valves and other machinery. Prices for electricity or gas may increase, which could adversely affect the System's financial condition.

## **Impact of Economic Conditions on System Net Revenues**

Major economic disruptions and recession have adversely affected the economic activity of the region in general, in particular resulting in decreased economic activity, increased unemployment and a reduction in residential and commercial construction. The Water Authority

cannot predict the extent of the fiscal problems that will be encountered in any future economic downturn. Reduction in System users' ability to pay rates and charges, and reduction in the rate at which new customers are added to the System, can adversely impact System Net Revenues.

### **Limitations on Remedies**

Enforceability of the rights and remedies of the Owners of the Series 2018 Bonds may become subject to (i) the Federal bankruptcy code and applicable bankruptcy, insolvency, reorganization, moratorium, or similar laws relating to or affecting the enforcement of creditor's rights generally, (ii) equity principles which may limit the specific enforcement of certain remedies, (iii) the exercise by the United States of America of the powers delegated to it by the Constitution, and (iv) the exercise of the state police powers. Remedies available to the Owners of the Series 2018 Bonds are in many respects dependent upon judicial action which is often subject to discretion and delay and could prove both expensive and time consuming to obtain.

## **DESCRIPTION OF THE SERIES 2018 BONDS**

### **Generally**

Set forth below is a summary of certain provisions of the Series 2018 Bonds. This summary is qualified in its entirety by reference to the Bond Ordinance and the Series 2018 Bonds. See "DESCRIPTION OF BOND ORDINANCE" in Appendix C. Copies of the form of the Bond Ordinance are available from the Water Authority upon request.

The Series 2018 Bonds will be dated the date of initial delivery to the Underwriters. Interest on the Series 2018 Bonds will be payable on January 1 and July 1 of each year, commencing January 1, 2019, with a record date of the fifteenth day of the calendar month preceding each January 1 and July 1. The Series 2018 Bonds will be issued in the aggregate principal amount and will mature on the dates and in the amounts shown on the inside front cover. The Series 2018 Bonds will be issued in denominations of \$5,000 or integral multiples thereof.

### **Book-Entry Only System**

*The information in this section concerning DTC and DTC's book-entry only system has been obtained from sources that the Water Authority believes to be reliable, but none of the Water Authority, Financial Advisor, Bond Counsel or the Underwriters or their counsel take responsibility for the accuracy thereof.*

DTC will act as securities depository for the Bonds. The Bonds will be issued as fully-registered securities registered in the name of Cede & Co. (DTC's partnership nominee) or such other name as may be requested by an authorized representative of DTC. One fully-registered Bond will be issued for each maturity of the Bonds, each in the aggregate principal amount of Bonds of such maturity, and will be deposited with DTC.

DTC, the world's largest securities depository, is a limited-purpose trust company organized under the New York Banking Law, a "banking organization" within the meaning of



the New York Banking Law, a member of the Federal Reserve System, a “clearing corporation” within the meaning of the New York Uniform Commercial Code, and a “clearing agency” registered pursuant to the provisions of Section 17A of the Securities Exchange Act of 1934. DTC holds and provides asset servicing for over 3.5 million issues of U.S. and non-U.S. equity issues, corporate and municipal debt issues, and money market instruments (from over 100 countries) that DTC’s participants (“Direct Participants”) deposit with DTC. DTC also facilitates the post-trade settlement among Direct Participants of sales and other securities transactions in deposited securities, through electronic computerized book-entry transfers and pledges between Direct Participants’ accounts. This eliminates the need for physical movement of securities certificates. Direct Participants include both U.S. and non-U.S. securities brokers and dealers, banks, trust companies, clearing corporations, and certain other organizations. DTC is a wholly-owned subsidiary of The Depository Trust & Clearing Corporation (“DTCC”). DTCC is the holding company for DTC, National Securities Clearing Corporation and Fixed Income Clearing Corporation, all of which are registered clearing agencies. DTCC is owned by the users of its regulated subsidiaries. Access to the DTC system is also available to others such as both U.S. and non-U.S. securities brokers and dealers, banks, trust companies, and clearing corporations that clear through or maintain a custodial relationship with a Direct Participant, either directly or indirectly (“Indirect Participants”). DTC has Standard & Poor’s rating of AA+. The DTC Rules applicable to Direct Participants are on file with the Securities and Exchange Commission. More information about DTC can be found at [www.dtcc.com](http://www.dtcc.com) and [www.dtc.org](http://www.dtc.org). The Water Authority undertakes no responsibility for and makes no representations as to the accuracy or the completeness of the content of such material contained on that website as described in the preceding sentence including, but not limited to, updates of such information or links to other Internet sites accessed through the aforementioned website.

Purchases of the Series 2018 Bonds under the DTC system must be made by or through Direct or Indirect Participants, which will receive a credit for the Series 2018 Bonds on DTC’s records. The ownership interest of each actual purchaser of each Series 2018 Bond (“Beneficial Owner”) is in turn to be recorded on the Direct and Indirect Participants’ records. Beneficial Owners will not receive written confirmation from DTC of their purchase. Beneficial Owners are, however, expected to receive written confirmations providing details of the transaction, as well as periodic statements of their holdings, from the Direct or Indirect Participant through which the Beneficial Owner entered into the transaction. Transfers of ownership interests in the Series 2018 Bonds are to be accomplished by entries made on the books of Direct and Indirect Participants acting on behalf of Beneficial Owners. Beneficial Owners will not receive certificates representing their ownership interests in the Series 2018 Bonds, except in the event that use of the book-entry system for the Series 2018 Bonds is discontinued.

To facilitate subsequent transfers, all Series 2018 Bonds deposited by Direct Participants with DTC are registered in the name of DTC’s partnership nominee, Cede & Co. or such other name as may be requested by an authorized representative of DTC. The deposit of Series 2018 Bonds with DTC and their registration in the name of Cede & Co. or such other DTC nominee do not affect any change in beneficial ownership. DTC has no knowledge of the actual Beneficial Owners of the Series 2018 Bonds; DTC’s records reflect only the identity of the Direct Participants to whose accounts such Series 2018 Bonds are credited, which may or may not be the Beneficial Owners. The Direct and Indirect Participants will remain responsible for keeping account of their holdings on behalf of their customers.

Conveyance of notices and other communications by DTC to Direct Participants, by Direct Participants to Indirect Participants, and by Direct Participants and Indirect Participants to Beneficial Owners will be governed by arrangements among them, subject to any statutory or regulatory requirements as may be in effect from time to time.

While the Series 2018 Bonds are in the book-entry only system, redemption notices will be sent to DTC. If less than all of the Series 2018 Bonds are being redeemed, DTC's practice is to determine by lot the amount of the interest of each Direct Participant in such issue to be redeemed.

Neither DTC nor Cede & Co. (nor any other DTC nominee) will consent or vote with respect to the Series 2018 Bonds unless authorized by a Direct Participant in accordance with DTC's MMI Procedures. Under its usual procedures, DTC mails an Omnibus Proxy to the Authority as soon as possible after the record date. The Omnibus Proxy assigns Cede & Co.'s consenting or voting rights to those Direct Participants to whose accounts the Series 2018 Bonds are credited on the record date (identified in a listing attached to the Omnibus Proxy).

Redemption proceeds, distributions, and dividend payments on the Series 2018 Bonds will be made to Cede & Co., or such other nominee as may be requested by an authorized representative of DTC. DTC's practice is to credit Direct Participants' accounts, upon DTC's receipt of funds and corresponding detail information from the Authority or agent on payable date in accordance with their respective holdings shown on DTC's records. Payments by Participants to Beneficial Owners will be governed by standing instructions and customary practices, as is the case with securities held for the accounts of customers in bearer form or registered in "street name," and will be the responsibility of such Participant and not of DTC, agent, or the Water Authority, subject to any statutory or regulatory requirements as may be in effect from time to time. Payment of redemption proceeds, distributions, and dividend payments to Cede & Co. (or such other nominee as may be requested by an authorized representative of DTC) is the responsibility of the Water Authority or agent, disbursement of such payments to Direct Participants will be the responsibility of DTC, and disbursement of such payments to the Beneficial Owners will be the responsibility of Direct and Indirect Participants.

DTC may discontinue providing its services as depository with respect to the Series 2018 Bonds at any time by giving reasonable notice to the Water Authority. Under such circumstances, in the event that a successor depository is not obtained, certificates representing the Series 2018 Bonds are required to be printed and delivered.

The Water Authority may decide to discontinue use of the system of book-entry transfers through DTC (or a successor securities depository). In that event, certificates representing the Series 2018 Bonds will be printed and delivered to the Beneficial Owners.

## **Redemption Prior to Maturity**

### *Optional Redemption*

The Series 2018 Bonds maturing on and after July 1, \_\_\_\_\_ may be optionally redeemed, in whole or in part, at any time, on or after July 1, \_\_\_\_\_, upon the payment of the principal amount of the Series 2018 Bonds to be redeemed, plus accrued interest thereon to the

date fixed for redemption. Interest on any Series 2018 Bonds called for redemption shall cease to accrue on the redemption date designated in the notice of redemption.

Unless money sufficient to pay the principal of and interest on the Series 2018 Bonds to be redeemed pursuant to the optional redemption provisions of the Bond Ordinance is received by the Paying Agent prior to the giving of notice of redemption in accordance with the Bond Ordinance, the notice will state that redemption is conditional upon the receipt of that money by the Paying Agent by 2:00 p.m. on the redemption date. If an amount sufficient to redeem all Series 2018 Bonds called for redemption is not received by that time, (i) the Paying Agent will redeem only those Series 2018 Bonds for which the redemption price was received and the Series 2018 Bonds to be redeemed will be selected in the manner set forth in the Bond Ordinance, and (ii) the redemption notice will have no effect with respect to those Series 2018 Bonds for which the redemption price was not received and those Series 2018 Bonds will not be redeemed. The Registrar will give notice to the owners of the Series 2018 Bonds not redeemed in the manner in which the notice of redemption was given, identifying the Series 2018 Bonds previously called for redemption which were not redeemed and stating that the redemption did not take place with respect to those Series 2018 Bonds, and the Registrar will promptly return any Series 2018 Bonds not redeemed to the owners thereof.

#### *Mandatory Sinking Fund Redemption*

The Series 2018 Bonds maturing on July 1, \_\_\_\_\_ are subject to mandatory sinking fund redemption, by lot, and shall be redeemed on July 1 in the years set forth below in the amount of the corresponding mandatory sinking fund redemption requirement for such Series 2018 Bonds at a redemption price of the principal amount of such Series 2018 Bonds called for redemption plus interest accrued to the date fixed for redemption, without premium, as follows:

\$_____	Series 2018 Bonds due July 1, _____
Year	Mandatory Sinking Fund Redemption Requirement
	\$

\*

\*Maturity

#### *Notice of Redemption*

Notice of redemption shall be given by the Registrar by sending notice thereof to the registered Owner of each Series 2018 Bond, or portion thereof, to be redeemed, at least 30 days prior to the redemption date at the address shown on the registration books of the Registrar as of the close of business on the fifth day prior to the sending of notice, and as otherwise required by law.

### *Partial Redemption*

If less than all of the Series 2018 Bonds of a series subject to redemption will be redeemed at any one time, the Series 2018 Bonds to be redeemed will be selected by the Registrar in the manner and from the series and maturities designated by the Water Authority. If less than all of the Series 2018 Bonds within a maturity will be redeemed, the Series 2018 Bonds to be redeemed within that maturity will be selected by lot in such manner as determined by the Registrar. The portion of any Series 2018 Bond of such series to be redeemed and the portion of that Series 2018 Bond not to be redeemed are both to be in Authorized Denominations.

## **Issuance of Additional System Obligations**

### *Senior Obligations*

The Bond Ordinance permits the Water Authority, subject to the following requirements, to issue additional System Obligations with a lien on Net Revenues on parity to the lien of the Senior Obligations on Net Revenues. See "SECURITY AND SOURCES OF PAYMENT - Outstanding System Obligations – Senior Obligations."

Except with respect to certain refunding bonds, the Water Authority must meet the following tests prior to the issuance of additional Senior Obligations:

(1) The Water Authority shall be current in making all deposits relating to Debt Service Requirements and reserve requirements on System Obligations and certain other funds and accounts required by the Bond Ordinance; and

(2) The Net Revenues for the Historic Test Period (defined below) shall have been sufficient to pay an amount representing at least 133% of the maximum combined annual Debt Service Requirements of only the Outstanding Senior Obligations and the terms of *either* subparagraph 3(a) or 3(b) below shall be satisfied; and

(3) (a) Using the fees and rates for use of the System on the date of computation, or assuming that any new schedule of fees and rates approved by the Water Authority during or after the Historic Test Period was in effect during the entire Historic Test Period, the Net Revenues which were or would have been received during that Historic Test Period are required to be sufficient to pay an amount representing at least 133% of the maximum combined annual Debt Service Requirements on the Outstanding Senior Obligations and the Senior Obligations proposed to be issued; or

(b) The projected Net Revenues for the Prospective Test Period (defined below) shall be sufficient to pay an amount representing at least 133% of the maximum combined annual Debt Service Requirements on the Outstanding Senior Obligations and the Senior Obligations proposed to be issued. To determine if the annual Net Revenues are sufficient for the purposes of the preceding sentence, the Net Revenues projected for the applicable Prospective Test Period shall be determined by applying the rates for use of the System approved by the Board at the time of computation to be in effect during the Prospective Test Period to the

proposed number of connections to the System after giving effect to the purchase, expansion or improvement of the System or the acquisition of an existing water and sanitary sewer system.

The required tests described above shall be performed without adjustment for payments to or withdrawals from the Rate Stabilization Fund or for interest accrued in the Acquisition Fund. For purposes of the above tests, the term "*Historic Test Period*" means any period of 12 consecutive months out of the 24 calendar months next preceding the delivery of additional Senior Obligations. The term "*Prospective Test Period*" means the 12-month period commencing on the first day of the month following the estimated Completion Date of the Project for which additional Senior Obligations are proposed to be issued or the first day of the thirty-sixth month following the delivery of such additional Senior Obligations, whichever is earlier. In determining whether additional Senior Obligations may be issued pursuant to the test above, a written certificate or opinion of an Independent Accountant or an Authorized Officer that states in substance that the Net Revenues are sufficient to pay the amounts required shall be conclusively presumed to be accurate in determining the right of the Water Authority to authorize, issue, sell and deliver such additional Senior Obligations.

No refunding bonds or other refunding obligations may be issued by the Water Authority as Senior Obligations unless:

- (a) The refunding does not increase the maximum combined annual Debt Service Requirements of the Outstanding Senior Obligations, or
- (b) The refunding Senior Obligations are issued in compliance with the tests described above for Senior Obligations.

#### *Subordinate Obligations*

The Bond Ordinance permits the Water Authority, subject to the following requirements, to issue additional System Obligations with a lien on Net Revenues subordinate to the lien of the Senior Obligations on Net Revenues. See "SECURITY AND SOURCES OF PAYMENT - Outstanding System Obligations – Subordinate and Super Subordinated Obligations."

Except with respect to certain refunding bonds, the Water Authority must meet the following tests prior to the issuance of additional Subordinate Obligations:

- (1) The Water Authority (i) shall be current in making all deposits relating to Debt Service Requirements and reserve requirements on System Obligations and certain other funds and accounts required by the Bond Ordinance, (ii) shall satisfy the additional bonds test related to the issuance of additional Senior Obligations<sup>(1)</sup>; and (iii) shall satisfy the test set forth below in subparagraph (2); and

(1) This requirement is applicable only for so long as the Series 2009A-1 Bonds, Series 2013A&B Bonds, Public Project Revolving Fund Loan Agreement (2007), Drinking Water State Revolving Loan Agreement (2009), and Public Project Revolving Fund Loan Agreement (2011) are Outstanding. After these Senior Obligations are no longer Outstanding, the Water Authority shall be required to only meet the tests set forth in (i) and (iii) under paragraph (1).

(2) The Net Revenues for the Historic Test Period (defined below) shall have been sufficient to pay an amount representing at least 120% of the maximum combined annual Debt Service Requirements of only the Outstanding Senior Obligations and the Outstanding Subordinate Obligations and the terms of *either* subparagraph 3(a) or 3(b) below shall be satisfied; and

(3) (a) Using the fees and rates for use of the System on the date of computation, or assuming that any new schedule of fees and rates approved by the Water Authority during or after the Historic Test Period was in effect during the entire Historic Test Period, the Net Revenues which were or would have been received during that Historic Test Period are required to be sufficient to pay an amount representing at least 120% of the maximum combined annual Debt Service Requirements on the Outstanding Senior Obligations and the Outstanding Subordinate Obligations and the Subordinate Obligations proposed to be issued; or

(b) The projected Net Revenues for the Prospective Test Period shall be sufficient to pay an amount representing at least 120% of the maximum combined annual Debt Service Requirements on the Outstanding Senior Obligations and the Outstanding Subordinate Obligations and the Subordinate Obligations proposed to be issued. To determine if the annual Net Revenues are sufficient for the purposes of the preceding sentence, the Net Revenues projected for the applicable Prospective Test Period shall be determined by applying the rates for use of the System approved by the Board at the time of computation to be in effect during the Prospective Test Period to the proposed number of connections to the System after giving effect to the purchase, expansion or improvement of the System or the acquisition of an existing water and sanitary sewer system.

The required tests described above shall be performed without adjustment for payments to or withdrawals from the Rate Stabilization Fund or for interest accrued in the Acquisition Fund. For purposes of the above tests, the term "*Historic Test Period*" means any period of 12 consecutive months out of the 24 calendar months next preceding the delivery of additional Subordinate Obligations. The term "*Prospective Test Period*" means the 12-month period commencing on the first day of the month following the estimated Completion Date of the Project for which additional Subordinate Obligations are proposed to be issued or the first day of the thirty-sixth month following the delivery of such additional Subordinate Obligations, whichever is earlier. In determining whether additional Subordinate Obligations may be issued pursuant to the test above, a written certificate or opinion of an Independent Accountant or an Authorized Officer that states in substance that the Net Revenues are sufficient to pay the amounts required shall be conclusively presumed to be accurate in determining the right of the Water Authority to authorize, issue, sell and deliver such additional Subordinate Obligations.

No refunding bonds or other refunding obligations may be issued by the Water Authority as Subordinate Obligations unless:

(a) The refunding does not increase the maximum combined annual Debt Service Requirements of the Outstanding Subordinate Obligations, or

(b) The refunding Subordinate Obligations are issued in compliance with the tests described above for Subordinate Obligations.

### *Super Subordinated Obligations*

The Water Authority may issue Super Subordinated Obligations with a lien on the Net Revenues subordinate to the liens of the Senior Obligations and the Subordinate Obligations. See "SECURITY AND SOURCES OF PAYMENT - Outstanding System Obligations – Subordinate and Super Subordinated Obligations."

### *Superior System Obligations Prohibited*

As long as Senior Obligations are outstanding, the Bond Ordinance prohibits the Water Authority from issuing additional System Obligations with a lien on Net Revenues prior and superior to the lien of such Outstanding Senior Obligations.

## **PLAN OF FINANCING**

### **Sources and Uses of Bond Proceeds**

The sources and uses of funds to be received in connection with the sale of the Series 2018 Bonds are set forth in the following table.

PRINCIPAL AMOUNT OF SERIES 2018 BONDS .....	\$
Reoffering Premium.....	
TOTAL SOURCES OF BOND PROCEEDS .....	\$ <hr/> <hr/>
USES OF BOND PROCEEDS:	
Deposit to Acquisition Fund.....	
Underwriters' Discount <sup>(1)</sup> .....	
Costs of Issuance <sup>(2)</sup> .....	
TOTAL USES OF BOND PROCEEDS .....	\$ <hr/> <hr/>

(1) See "Underwriting."

(2) This amount includes legal and accounting fees, escrow fees, printing, posting, rating fees, and other miscellaneous costs.

### **The Project**

Proceeds from the sale of the Series 2018 Bonds will be used, in part, to provide funds for acquiring additional System assets through regular System improvements, expansion, maintenance, and upgrades pursuant to the Water Authority's Basic Capital Program. Proceeds of the Series 2018 Bonds will be allocated to the Project as follows: (i) approximately \$\_\_\_\_\_ million of Bond proceeds will be used for projects under the Water Authority's Decade Plan, (ii) approximately \$\_\_\_\_\_ million for \_\_\_\_\_, and (iii) approximately \$\_\_\_\_\_ million for the Water Authority's \_\_\_\_\_. Proceeds of the Series 2018 Bonds will also be used to pay costs of issuance of the Series 2018 Bonds.

## SECURITY AND SOURCES OF PAYMENT

### Special, Limited Obligations

The Series 2018 Bonds are special, limited obligations of the Water Authority, payable solely from the Net Revenues, money on deposit in certain of the funds and accounts held under the Bond Ordinance, and the earnings thereon. All Series 2018 Bonds are equally and ratably secured by Net Revenues. The Series 2018 Bonds are being issued with a senior lien on Net Revenues on parity with the lien of the other Outstanding Senior Obligations. The Water Authority has the right, subject to specified conditions, to issue additional Senior Obligations. The Bond Ordinance permits the Water Authority to issue bonds or other obligations with a lien on Net Revenues subordinate and super subordinate to the lien of the Senior Obligations. **As long as Senior Obligations are outstanding, the Water Authority is prohibited from issuing additional System Obligations with a lien on Net Revenues prior and superior to the lien of such Outstanding Senior Obligations.** The issuance of the Series 2018 Bonds shall not, directly, indirectly or contingently, obligate the State or any political subdivision thereof to levy any form of taxation therefor or to make any appropriation for their payment. **The Water Authority does not have any taxing power.**

### Net Revenues

Net Revenues are the Gross Revenues of the System after deducting Operation and Maintenance Expenses.

Gross Revenues includes all income and revenues directly or indirectly derived by the Water Authority from the operation and use of the System, or any part of the System, and includes, without limitation, all revenues received by the Water Authority from the System and from the sale and use of water, water services or facilities, sewer service or facilities or any other service, commodity or facility or any combination thereof furnished to the inhabitants of the geographic area served by the Water Authority by means of the System as the same may at any time exist to serve customers outside the Water Authority's geographical limits as well as customers within the Water Authority's geographical limits. Gross Revenues does not include (i) any money received as grants or gifts from the United States of America, the State or other sources, or the proceeds of any charge or tax intended as a replacement therefor or other capital contributions from any source which are restricted as to use, and (ii) condemnation proceeds or the proceeds of any insurance policy, except property insurance proceeds which are not necessary to restore or replace the property lost or damaged or insurance proceeds derived in respect of loss of use or business interruption.

Operation and Maintenance Expenses include all reasonable and necessary current expenses of the System, paid or accrued, related to operating, maintaining and repairing the System. Operation and Maintenance Expenses does not include any allowance for depreciation, payments in lieu of taxes, liabilities incurred by the Water Authority as a result of its negligence or other misconduct in the operation of the System or any charges or costs allocable to capital improvements or replacements. Operation and Maintenance Expenses also do not include any payment of or reimbursement for the payment of Debt Service Requirements or premiums on the Bonds.



For a presentation of the last five fiscal years of Net Revenues available for debt service, see "Water/Wastewater System – Debt Service Coverage Calculation – Fiscal Years 2014-2018."

### **Reserve Fund**

No debt service reserve fund will be funded for the Series 2018 Bonds, nor has a debt service reserve fund been funded for any of the Water Authority's Outstanding System Obligations.

### **Covenant as to Lien for Delinquent Charges**

To the extent permitted by law, the Water Authority will cause a lien to be perfected upon each lot or parcel of land for delinquent charges imposed for water and sanitary sewer services provided by the System to the owner of such lot or parcel. The Water Authority will take all necessary steps to enforce such lien against any parcel of property the owner of which is delinquent for more than six months in the payment of charges imposed for the use of the System. See "FINANCIAL INFORMATION – System Billing and Collections."

### **Rate Covenant**

The Water Authority covenants in the Bond Ordinance to charge all purchasers of services of the System, including the Water Authority, the City and the County, reasonable and just rates sufficient to produce Net Revenues annually to pay 133% of the annual Debt Service Requirements on the Series 2018 Bonds and all other Outstanding Senior Obligations and to pay 120% of the annual Debt Service Requirements on the Series 2018 Bonds and all other Outstanding Senior Obligations and all other Outstanding Subordinate Obligations (excluding accumulation of any reserves therefor).

The Water Authority is required to determine quarterly that the Net Revenues are sufficient to satisfy the rate covenant. If the Net Revenues are not sufficient to satisfy such covenant upon the approval of the annual audit for a Fiscal Year, the Water Authority is required either: (i) to promptly increase the rates for use of the services of the System in order to generate sufficient Net Revenues to satisfy such covenant or (ii) to employ a consultant or manager for the System who has a favorable national reputation for skill and experience in the management, operation and financial affairs of water and sewer systems and who is not an employee or officer of the Water Authority. The Water Authority will request that the consultant or manager make recommendations, if any, as to revisions of the Water Authority's rate structure and other charges for use of the System, its Operation and Maintenance Expenses and the method of operation of the System in order to satisfy the rate covenant as soon as practicable. Copies of any such requests and recommendations of the consultant or manager shall be filed with the Water Authority. So long as the Water Authority substantially complies with the recommendations of the consultant or manager on a timely basis, the Water Authority will not be deemed to have defaulted in satisfying the rate covenant even if the resulting Net Revenues are not sufficient to be in compliance with the covenant, if there is no other default under the Bond Ordinance. For a discussion of coverage ratios relating to the System, see "Estimated Total Combined Debt Service and Coverage Ratios" under this caption.

## Outstanding System Obligations

### *Senior Obligations*

Upon issuance, the Series 2018 Bonds will have a senior lien on Net Revenues. System Obligations with a senior lien on Net Revenues as of September 1, 2018 are shown below:

### Outstanding Senior Obligations as of September 1, 2018

<u>System Issue</u>	<u>Principal Amount of Original Issue</u>	<u>Outstanding Principal Amount</u>
Revenue Bonds, Series 2009A-1	\$135,990,000	\$8,395,000
NMFA – Drinking Water State Revolving Fund Loan Agreement (2009)	1,010,000	765,498
NMFA – Public Project Revolving Fund Loan Agreement (2011)	53,400,000	32,120,000
Revenue Bonds, Series 2013A-B	118,215,000	74,685,000
Revenue Bonds, Series 2014A	97,270,000	79,995,000
Revenue Bonds, Series 2015	211,940,000	196,710,000
Revenue Bonds, Series 2017	87,970,000	84,090,000
NMFA – Drinking Water State Revolving Fund Loan Agreement #4200 (2018)	1,010,000	505,000
NMFA – Drinking Water State Revolving Fund Loan Agreement #4202 (2018)	1,000,000	250,000
Total Senior Obligations		<u><u>\$477,515,498</u></u>

*Subordinate and Super Subordinated Obligations*

System Obligations payable on a subordinate basis from Net Revenues, as of September 1, 2018, are shown below:

**Outstanding Subordinate Obligations  
as of September 1, 2018**

<b><u>Obligation</u></b>	<b><u>Principal Amount of Original Issue</u></b>	<b><u>Outstanding Principal Amount</u></b>
New Mexico Finance Authority Drinking Water Loan (2008)	\$9,627,877	\$6,860,187
Revenue Bonds, Series 2014B	87,005,000	<u>58,865,000</u>
Total Subordinate Obligations		<u>\$65,725,187</u>

**Debt Service Requirements for the Series 2018 Bonds\***

The following tables show the estimated annual Debt Service Requirements on the Series 2018 Bonds for each period ending on July 1.

**\$83,000,000\***  
**Series 2018 Bonds**

<b><u>Period Ending (July 1)</u></b>	<b><u>Principal Amount*</u></b>	<b><u>Interest<sup>(1)</sup> *</u></b>	<b><u>Total Debt Service*</u></b>
2019			
2020			
2021			
2022			
2023			
2024			
2025			
2026			
2027			
2028			
2029			
2030			
2031			
2032			
2033			
2034			

<sup>(1)</sup> Interest has been calculated for purposes of this Preliminary Official Statement based on assumed interest rates.

\*Preliminary, subject to change.

### Estimated Total Combined Debt Service and Coverage Ratios\*

The following table shows the total combined debt service and estimated coverage ratio for each period ending on July 1 for the Series 2018 Bonds and all other Outstanding System Obligations through their final maturity dates (taking into account the Refunding Project).

<u>Period End (July 1)</u>	<u>Outstanding Senior Lien Debt Service</u>	<u>Series 2018 Bonds Debt Service*</u>	<u>Combined Senior Lien Debt Service*</u>	<u>Subordinate Debt Service</u>	<u>Combined Total Debt Service*</u>	<u>Net Revenues</u>	<u>Senior Coverage*</u>	<u>Senior and Subordinate Coverage*</u>
2019								
2020								
2021								
2022								
2023								
2024								
2025								
2026								
2027								
2028								
2029								
2030								
2031								
2032								
2033								
2034								
2035								
2036								
2037								
2038								
<b>TOTAL</b>								

Source: Table compiled by RBC Capital Markets, LLC as Financial Advisor. Net Revenues provided by the Water Authority.

\*Preliminary, subject to change.

**Water/Wastewater System  
Debt Service Coverage Calculation  
Fiscal Years 2014-2018**

	<u>2018<sup>(1)</sup></u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
Total operating revenues	\$226,396,492	\$215,193,982	\$210,056,776	\$192,311,627	\$182,350,427
Non-operating revenues (expenses):					
Interest	483,793	86,073	155,431	44,453	75,920
Expansion charges	10,397,749	8,545,978	9,256,938	7,541,201	7,872,237
Other Expenses	-	-	-	-	-
Other Revenues	<u>3,687,967</u>	<u>3,217,905</u>	<u>7,304,796</u>	<u>3,936,638</u>	<u>8,935,575</u>
<b>Total adjusted revenues</b>	<b><u>\$240,966,001</u></b>	<b><u>\$227,043,938</u></b>	<b><u>\$226,773,941</u></b>	<b><u>\$203,833,919</u></b>	<b><u>\$199,234,160</u></b>
Total operating expenses	\$202,610,333	\$198,769,769	\$191,539,658	\$197,155,094	\$198,664,257
Less:					
Franchise fees	-	-	-	-	-
Bad debt expense	-	-	-	-	(56,973)
Non-capitalized system obligations	(7,586,879)	(5,795,924)	(4,285,103)	(6,428,665)	(5,641,663)
OPEB Life Insurance Benefits	-	-	-	(34,339)	-
Depreciation	(82,461,610)	(81,648,334)	(80,357,265)	(83,094,979)	(84,788,418)
Amortization	=	=	=	=	=
<b>Total adjusted operating expenses</b>	<b><u>\$112,561,846</u></b>	<b><u>\$111,325,511</u></b>	<b><u>\$106,897,290</u></b>	<b><u>\$107,597,111</u></b>	<b><u>\$108,177,203</u></b>
Release from Rate Stabilization Fund	=	=	=	=	=
<b>Net revenues available for debt service</b>	<b><u>\$128,404,155</u></b>	<b><u>\$115,718,427</u></b>	<b><u>\$119,876,651</u></b>	<b><u>\$96,236,808</u></b>	<b><u>\$91,056,957</u></b>
Total senior debt service	<u>\$42,812,915</u>	<u>\$48,989,966</u>	<u>\$53,957,932</u>	<u>\$47,351,384</u>	<u>\$67,968,843</u>
Senior debt service coverage	2.99x	2.36x	2.22x	2.03x	1.34x
Subordinate debt service	<u>\$14,552,587</u>	<u>\$13,177,074</u>	<u>\$5,004,682</u>	<u>\$3,838,983</u>	<u>\$1,316,774</u>
Combined total debt service	<u>\$57,365,502</u>	<u>\$62,167,041</u>	<u>\$58,962,614</u>	<u>\$51,190,367</u>	<u>\$69,285,617</u>
<b>All in debt service coverage</b>	<b>2.23x</b>	<b>1.86x</b>	<b>2.03x</b>	<b>1.87x</b>	<b>1.31x</b>

(1) Unaudited.

Source: Albuquerque Bernalillo County Water Utility Authority.

## **JOINT WATER AND SANITARY SEWER SYSTEM OF THE AUTHORITY**

### **Water System**

The Water System provides water services to approximately 670,779 residents comprising approximately 95% of the residents of the County. About one-third of unincorporated County residents are customers of the Water System. As of January 1, 2018, service is provided to approximately 208,140 customer accounts, including 186,301 residential and 21,839 multi-family, commercial, institutional and industrial accounts. Approximately 50% of the water sales are for residential uses.

Surface water from the San Juan-Chama project that is utilized through the San Juan-Chama Drinking Water Project is the primary source of potable water supply for the Water Authority. Groundwater is used to supplement surface water supplies to meet peak demands and to provide supply during drought periods or other times when surface water is not available. The Water Authority also owns and operates two non-potable water systems to provide irrigation and industrial water in the service area. In calendar year 2017, the Water Authority's water resources use consisted of 28.90% from groundwater and 69.6% from San Juan-Chama surface water and 1.50% from reuse of treated effluent for irrigation. The groundwater supply is produced from 60 wells grouped in 17 well fields located throughout the metropolitan area and the San Juan-Chama surface water is diverted from the Rio Grande. Total well production capacity is approximately 255 million gallons per day ("MGD"). Eliminating high arsenic wells (those greater than 10 parts per billion arsenic) results in available production capacity of 176 MGD. Maximum historical peak day demand is 214 MGD. Peak day demand for 2017 was 144 MGD. The Water Authority also has four arsenic treatment facilities that remove naturally occurring arsenic from ground water. Each well field includes chlorination for disinfection as required by the Safe Drinking Water Act.

Water storage reservoirs provide for fire, peak hour and uphill transfer storage. Water is distributed from higher to lower elevations through a 115-foot vertical height pressure zone to provide minimum static pressures of 50 pounds per square inch (psi) for consumers. Sixty-one (61) reservoirs are located throughout the service area, with a total reservoir storage capacity of 245 million gallons. If demand requires, reservoir water can also be transferred to a higher zone or across zones through an east-west series of reservoirs by means of pump stations sited at the reservoirs. There are a total of 128 boosters, with a total capacity of 748 MGD, available for water transfers between reservoirs. These reservoirs are interconnected by 3,130 miles of pipelines and are situated at various locations east and west of the service area to provide multiple sources of supply to customers and for operating economies. The Water System takes advantage of the unique topography of the Water Authority's service area which allows ground level storage while simultaneously providing system pressure by gravity. Control of the Water System is provided by remote telemetry units distributed throughout the Water System for control from a central control facility.

### *Existing Water Resources*

On September 4, 2003, the New Mexico Office of the State Engineer granted the 1993

application of the City's Water Utility Department (the "Utility") to appropriate groundwater in the Middle Rio Grande Administrative Area. This water rights permit allows the withdrawal of groundwater from the aquifer in the amount of up to 155,000 acre-feet per annum as follows:

<u>Years</u>	<u>Annual Diversion Limit (acre-feet)</u>
2016 thru 2029	142,900
2030 and thereafter	155,000

The previous groundwater permit limited the Water Authority's pumping to 132,000 acre-feet per year. The new permit is governed by the Middle Rio Grande Administrative Area Guidelines for Review of Water Rights Applications adopted by the State Engineer in 2000.

The Water Authority also holds groundwater diversion permit RG-4462 with 14 groundwater wells permitted in the Corrales trunk with a maximum diversion limit of 10,000 acre-feet per year. The permit and wells were acquired when the Water Authority acquired New Mexico Utilities, Inc. in 2009.

The average annual groundwater withdrawal for the five years ending in Calendar Year 2017 was 42,808 acre-feet with a maximum occurring in Calendar Year 2013. Additionally, the Water Authority has the right to use consumptively 74,622.2 acre-feet of surface water per year. This figure consists of imported Colorado River water pursuant to a contract with the Secretary of the Interior for 48,200 acre-feet per year from the San Juan-Chama Drinking Water Project, Pre-1907 water rights of 4,916.7 acre-feet, vested water rights of 17,875 acre-feet from the New Mexico State Engineer's Rio Grande Basin declaration in 1956, and other native water rights totaling 8,547.16 acre-feet. In addition to the annual delivery contract for 48,200 acre-feet of San Juan-Chama water, the Water Authority also has approximately 155,000 acre-feet of San Juan-Chama water (as of August 2018) from prior year deliveries stored in reservoirs located in northern/central New Mexico (Abiquiu and Heron Reservoirs). In July 2003, the Water Authority began diversions of San Juan-Chama water under the Non-Potable Surface Water Reuse Project. The total surface water diversions for Calendar Year 2017 were 68,706 acre-feet with an average of 55,380 acre-feet over the last five years.

The Water Authority believes that water received pursuant to the contract for San Juan-Chama water and the native water rights to Rio Grande Basin water will be sufficient to support, in perpetuity, a customer population of more than 1,000,000 using 135 gallons per capita per day with 40% consumptive use and 60% return flow. Alternatively, these same water resources will support a customer population of 500,000 using water at the rate of 250 gallons per person per day with the same consumptive use and return flow. The current service population is approximately 670,779, and the current usage is approximately 128 gallons per capita per day (Calendar Year 2017), down from an average of 250 gallons per capita per day between 1987 through 1993. The Water Authority believes this decrease can be attributed to the Water Authority's "Water Conservation Program."

### *San Juan-Chama Drinking Water Project*

Imported Colorado River water from the San Juan-Chama project was purchased in 1963 and began flowing into the Rio Grande in the early 1970's. This water was intended to be directly diverted or to provide legally required offsets for the effects of pumping the aquifer on the Rio Grande. Studies in the 1990's showed that the Rio Grande is not directly connected to the aquifer and that continued sole reliance on groundwater would lead to water quality impacts and land surface subsidence. The policy to transition to direct diversion and full use of the imported Colorado River water (San Juan-Chama water) was adopted in 1997 along with seven dedicated rate increases to pay for the construction and operation.

Construction of the San Juan-Chama Drinking Water Project began in August 2004 following the completion of the diversion and environmental permitting. The San Juan-Chama Drinking Water Project came on-line on December 5, 2008. The San Juan-Chama Drinking Water Project consists of a diversion dam on the Rio Grande, eighteen pipeline segments, approximately 44 miles of pipeline, a raw water pump station, a raw water intake and fish passage structure designed to protect habitat on the Rio Grande and the endangered Rio Grande Silvery Minnow, and a surface water treatment plant. Construction costs for the project were approximately \$385 million with an additional \$70 million for design, construction inspection and land purchases.

The San Juan-Chama Drinking Water Project diverts San Juan-Chama water in combination with native water from the Rio Grande for purification to replace sole reliance on the aquifer. Under a permit with the New Mexico Office of the State Engineer, the native water is diverted from the Rio Grande to the surface water treatment plant where the water is purified through a state-of-the-art multi-barrier treatment system designed to remove particulate matter, sediment and bacterial and microbial contaminants. The treatment plant is capable of processing 90 million gallons of water each day. The purified drinking water is then blended with groundwater at the existing reservoirs to supplement drinking water supplies. The State Engineer's permit has many conditions that require diversion from the Rio Grande to be curtailed or stopped including a minimum flow requirement at the Central Avenue gauge. The minimum flow requirements have reduced the ability to divert San Juan-Chama water from the Drinking Water Project since the beginning of operations due to drought. Even with the reduced diversions in the summer months, the aquifer in the Middle Rio Grande Basin has been rising since 2008. Since that time, the water table has risen 40 feet and it is predicted to continue to rise for the next ten years. The San Juan-Chama Drinking Water Project provides Water Authority customers with a significant additional source of drinking water, which design and construction has been recognized nationally.

### *Water Supply Plan*

Prior to 1997, the water supply plan for the Water Authority's service area, which was based on technical knowledge of the surface and groundwater systems at the time, could be summarized as follows: the City would pump groundwater to meet water system demands; groundwater pumping would cause additional seepage (induced recharge) from the river; and the City would provide surface water to offset river depletion by return wastewater flow, native



water rights and imported water obtained under contract with the Secretary of Interior from the San Juan-Chama diversion project. Technical investigations by the New Mexico Bureau of Mines and Mineral Resources, the U.S. Geological Survey and the Bureau of Reclamation concluded that the Water Authority's wastewater return flows were sufficient to offset the annual seepage from the Rio Grande associated with the Water Authority's groundwater pumping.

In 1997, the City Council adopted the Water Resource Management Strategy ("WRMS") as the City's water supply plan. The WRMS was the culmination of years of planning and technical investigations, cooperation with federal, state and local agencies and public involvement and education. The WRMS: (1) calls for the City (or the Water Authority as successor) to more fully utilize its renewable water resources in order to reduce reliance on groundwater to serve customers; (2) provides for limited reuse of industrial and municipal effluent to irrigate large turf areas; (3) provides for the development of a groundwater drought reserve, which was recommended by resource economists in a report commissioned to provide for the Water Authority's anticipated year 2060 water demands; (4) includes recommended implementation and financing plans; and (5) recommends pursuit of regional solutions and several specific additional sources of water for the future. The total estimated capital and initial operating costs of the WRMS (including \$10.8 million for costs of site selection and acquisition, \$385 million for the drinking water supply project, and \$29.4 million for three reclamation and reuse projects) is \$425.2 million.

In 2007, the Water Authority adopted a new WRMS as its water supply plan. The new WRMS is a combination of existing policies from the original 1997 WRMS with several new policies that were developed in cooperation with federal, state, and local agencies and significant public involvement and education. The WRMS outlines thirteen policies including continued support for the San Juan-Chama Drinking Water Project and the remaining reuse and reclamation projects.

The four specific projects identified in the 1997 WRMS have been implemented. The Water Authority received a permit from the Office of the State Engineer for diverting and consuming San Juan-Chama water in the amount of 96,200 acre-feet per year on July 8, 2004. The final revised Order and Permit (SP-4830) for the San Juan-Chama Drinking Water Project was received in December 2014 which completes the legal process. The Water Authority received a Record of Decision on the National Environmental Policy Act process on June 1, 2004 and an approved Biological Opinion from the Fish and Wildlife Service in February 2004. The Biological Opinion concludes that the effects of the San Juan-Chama Drinking Water Project will not jeopardize the continued existence of the Rio Grande Silvery Minnow and will not adversely affect critical habitat.

With respect to the three water reclamation and reuse projects identified in the WRMS, the Industrial Recycling Project has been completed and operational since approximately August 2000. The North I-25 Non-Potable Surface Water Project began full operations in January 2004. Together these two projects provide approximately 2,600 acre-feet of water each year for irrigation use in the Northeast Heights of the City. The Southside Municipal Effluent Polishing and Reuse Project utilizes about 1,000 acre-feet per year of treated wastewater effluent for irrigation and industrial use in the Southeast Heights and South Valley of Albuquerque. The

completion and operation of the Southside Reuse Project completes the four projects as called for in the original 1997 and updated 2007 WRMS to provide a safe and sustainable water supply to 2060 (which is as far as the WRMS projected).

As a result of the implementation of the 2007 WRMS, the aquifer has been rising throughout the Middle Rio Grande. Although the region has experienced numerous droughts, the water supply is increasing in the Albuquerque area as a result of the Water Authority's transition to surface water (DWP), reuse and significant water conservation efforts. To date, the Water Authority has saved more than 1,000,000 acre-feet of ground water.

Following the past successful water planning work in 1997 and 2007, in September 2016 the Water Authority Board adopted Water 2120: Securing Our Water Future ("Water 2120"). Water 2120 is a long-range water supply plan that provides policy directives to meet water supply gaps for a range of potential future demands over the next 100-years. Water 2120 also reflects updates in the scientific literature on climate modeling enhancing the Water Authority's understanding of the new water resources systems we manage. The document consists of thirteen policies and more than sixty sub-policies to guide implementation of the plan including programs and projects needed to provide a safe, sustainable and resilient water supply for the next 100-years.

The plan focuses on full utilization of the water rights and resources already owned by the Water Authority. The overall approach to Water 2120 was to simulate a number of scenarios of supply and demand over the next 100-years, with current supplies and rights, and to quantify key results. To fill the gaps in supply, numerous potential water supply alternatives were examined, and simulations were run. One of the key policies in the new water supply plan was to implement a groundwater management strategy that protects a large quantity of the aquifer for future generations. A management level was established such that new supplies would be implemented over time to reduce long-term aquifer drawdown and allow future generations the opportunity to utilize that savings account.

In addition to the groundwater management plan, the new 100-year plan focuses on utilizing the existing rights owned by the Water Authority with additional water conservation. Additional water reuse and storage provide flexibility for the future along with increased aquifer storage and recovery. Watershed restoration and management are also part of the new plan to ensure that we are taking the necessary steps to protect the environment from potentially devastating fires and watershed damage.

#### *Aquifer Storage and Recovery*

Aquifer storage and recovery ("ASR") is a means of storing excess water in the aquifer to reduce evaporation and provide a groundwater drought reserve when surface water supplies are not available. Aquifer storage and recovery is another water resources management tool that the Water Authority is implementing to ensure a safe and sustainable water supply. The Water Authority initiated the first land application project, called the Bear Canyon ASR Project, in 2009 and has since stored 1,578 acre-feet of water in the aquifer. In November 2014, the Water Authority received the full-scale permit for the Bear Canyon ASR project and began regular

operations in 2014. In 2015, the Water Authority recovered 1,357 acre-feet from the Bear Canyon storage account. The Water Authority has received a demonstration permit from the New Mexico Office of the State Engineer for the large scale ASR project capable of injecting about 5,000 acre-feet a year into the aquifer which will provide for additional storage that will assist in further expanding the drought supply for the Water Authority. The large-scale ASR project is currently under construction and will begin operations in early 2019. Additional ASR projects are called for in the new 100-year plan that would include both infiltration and direct injection.

### *South Valley Expansion Projects*

Construction of the South Valley Water System Expansion Project is being done in phases and is managed by the Bernalillo County Public Works Department. The Water Authority is the significant financial sponsor of the project. The project will construct water system infrastructure in the Southwest Valley of Bernalillo County and allow the residents to connect to the System and end their use of wells. The project will provide water service to approximately 3,200 developed parcels in the Southwest Valley. Phase I consisting of a major transmission line was completed in August 2007. The Water Authority paid \$9 million of the \$14 million cost. Phases 2 and 2A consist of a water distribution system to 1,240 households in the area and are under construction with an estimated cost of \$8.5 million with the Water Authority's share at \$7.5 million. Phases 3 and 4, consisting of a reservoir, transmission line and a water booster station are underway, with the Water Authority committed to providing \$8.4 million. The Water Authority and Bernalillo County are partnering to complete Phase VII of the water line project in the Los Padillas area. The Water Authority contributed \$250,000 in addition to the labor and equipment to install the water lines. Bernalillo County contributed \$1.7 million toward the project which is scheduled to continue into 2018. The Water Authority appropriated an additional \$ 2.575 million for the next phase of the Los Padillas area which we anticipate should complete Phase VII.

### *New Arsenic Standard Applicable to Water Supply*

The United States Environmental Protection Agency ("EPA") promulgated new regulations in 2001 reducing the allowable amount of arsenic in municipal drinking water from 50 parts per billion to 10 parts per billion. When EPA adopted the new standard, Congress allowed large water systems the opportunity to apply for a maximum three-year exemption, which the Water Authority applied for and was granted.

Two projects were instituted to comply with the new arsenic standard. The first and most important is the San Juan-Chama Drinking Water Project. The surface water has less arsenic than the groundwater and the treatment process at the new water treatment plant removes arsenic. The second project is the College Arsenic Treatment Plant, which was once the largest microfiltration arsenic treatment facility in the United States. The Gonzales to College Well Collector Line project conveys high arsenic well water to the College Arsenic Treatment Plant.

The Water Authority continues to be in compliance with EPA's arsenic regulations but because of diversion limitations placed by the State Engineer on the San Juan-Chama Drinking

Water Project, additional arsenic removal treatment systems to remove arsenic from the Water Authority's existing facilities or other production facilities with lower arsenic water may be needed to meet demand in the future.

### *Water Conservation Program*

In an effort to extend the lifetime of the Water Authority's water resources, the City initiated a water conservation program in 1995. The City adopted a goal of 30% reduction from baseline period water use to be attained by 2005. The City utilized Calendar Years 1987 through 1993 as the baseline period, with gross community per capita water use at an average of 250 gallons per day. Gross community water use needed to be reduced to 175 gallons per capita per day to achieve the 30% conservation savings goal. At the end of 2005, Water Authority customers had reduced their per capita use 33% compared with use during the established baseline period.

In 2004, the Water Authority adopted a new water conservation goal of 10% reduction in addition to the 30% reduction goal established in 1995 to be implemented in 2005 with reduction rates of 1% per year until 2014 to achieve a usage of 150 gallons per capita per day ("GPCD"). This goal was achieved three years early in 2011.

In 2013, the Water Authority adopted an additional reduction goal to reduce per capita usage from 150 GPCD to 135 GPCD over the next ten years. A new program was established to accomplish the goal following significant public input and meetings with the Water Authority Board. The new elements consist of increased public education, test your toilet month, new rebate programs, and revisions to the xeriscape program. GPCD for 2017 128. As part of Water 2120, the Water Authority adopted a new conservation goal of 110 GPCD by 2037. In March 2018, an updated water conservation plan was adopted which revises the rebate programs and places a greater emphasis on outdoor efficiency in order to achieve the new goal.

Elements of the current long-term water conservation strategy will stay in place including public education and marketing effort, converting high water use landscaping with xeriscaping, replacing high water use washing machines with low use models, installing rain water harvesting equipment, rain sensors, and more efficient sprinkler system heads. Free irrigation audits are available to all customers. The Water Authority has developed water management software to assist large water users such as Albuquerque Public Schools, the City of Albuquerque and Bernalillo County in tracking and reducing their water usage. Finally, the Water Authority has established water budgets for over 1,300 large turf customers.

The Water Conservation Program has achieved significant reductions in water use since 1995 and is recognized as one of the most successful water conservation programs in the United States. The Water Authority has imposed 5% rate increases in Fiscal Years 2012, 2014, 2015, 2016 and 2018 to help address the lost System revenues due to conservation. See "FINANCIAL INFORMATION – Rates and Charges of the System."

### *Surface and Groundwater Protection Plan*

The Albuquerque/Bernalillo County Groundwater Protection Policy and Action Plan (“GPPAP”) was adopted by the City and County in 1994. The goals of the GPPAP are to prevent any additional groundwater contamination in Bernalillo County, to facilitate clean-up of existing contamination, and to promote the coordinated protection and prudent use of groundwater. In 2009, the GPPAP was updated to include surface water quality protection measures, as the Water Authority started its use of the San Juan-Chama Project water. The Water Authority, City and County have jointly established a Water Protection Advisory Board (“WPAB”) which replaced the GPPAP to address surface water quality protection in addition to groundwater quality protection. Additionally, the WPAB studies and advises the Water Authority, City and County on surface and groundwater protection concerns, including policies necessary to enhance protection of surface and groundwater quality including promoting consistency among the governmental entities in pursuing these goals.

The WPAB works with local, state and federal agencies to monitor the progress of mitigation of current contamination sites and is continuing to develop policies to prevent future contamination. The current contamination cleanups are primarily in the South Valley and Northwest Mesa of Bernalillo County. The Water Authority has plugged or discontinued use of wells that were affected by the various contamination sites. Additionally, the Water Authority has assisted in a \$120 million program to eradicate 8,000 septic tanks in the North and South Valleys, and at the end of Calendar Year 2017 over 6,000 septic tanks have been eliminated.

### *Kirtland Air Force Base Fuel Spill*

In 1999, the United States Air Force discovered an underground fuel spill around its bulk fuel storage facility at Kirtland Air Force Base in southeast Albuquerque. The Air Force, in conjunction with the New Mexico Environment Department and the City, immediately began to investigate the scope of the spill and necessary remediation steps. The Air Force installed a soil vapor remediation system which began extracting fuel vapor from the soil in 2003 and began utilizing a groundwater treatment system in 2015 which utilizes three extraction wells located inside the contamination plume. The Air Force conducts quarterly groundwater monitoring of 138 monitoring wells and semi-annual monitoring of 284 soil vapor monitoring points. The Water Authority’s groundwater supply remains safe and has not experienced contamination. In July 2017, the Air Force completed a Risk Assessment Report which analyzed the potential for adverse impacts on human health or the environment as a result of the contamination. The risk assessment found no adverse health or ecological affects from the contamination based upon current land use. The Air Force, New Mexico Environment Department and the Water Authority continue to work collectively to identify the most effective remediation steps to protect the area’s groundwater and develop contingency plans should the fuel spill threaten the Water Authority’s groundwater supply. The Air Force has accepted responsibility for the cost of the remediation and has stated its commitment to dedicate the necessary resources to remediate the fuel spill. For additional information concerning the Air Force fuel spill, please see [www.kirtlandjetfuelremediation.com](http://www.kirtlandjetfuelremediation.com).

### *Drought Relief Measures*

The Water Authority adopted the City's Drought Management Strategy when the Water Authority was created in 2004. The Drought Management Strategy was updated and approved by the Board in 2012. The purpose of a Drought Management Strategy is to preserve and protect the aquifer and also to meet water conservation goals during a drought. In March 2018, the Drought Management Strategy was renamed "The Plan for Customer Demand Reduction During Drought" and was incorporated into the water conservation plan. All elements of the plan remained the same which identified four levels of drought as follows: drought advisory, drought watch, drought warning and drought emergency, and provides various educational steps and voluntary and mandatory conservation measures to reduce water usage during each of these drought levels.

### *Water Usage*

The Water System serves consumers inside and outside of the City limits. The consumers served outside the City limits constitute approximately 10% of total consumers served. Well pumps are presently producing at 150 to 1,000 feet depths. Their yields range from about 500 gallons per minute to more than 3,700 gallons per minute. During Calendar Years 2013-2017, the Water System supplied the following volumes to customers within the service area including contributions from both surface water and groundwater supplies:

#### **Usage<sup>(1)</sup> 2013-2017**

<b><u>Calendar Year</u></b>	<b><u>Gallons Produced (in 000s)</u></b>	<b><u>Gallons Billed (in 000s)</u></b>	<b><u>Percentage Billed</u></b>
2013	33,222,000	28,113,371	84.26%
2014	30,836,000	28,075,612	91.05%
2015	29,498,000	27,195,260	92.19%
2016	30,720,000	28,250,591	91.96%
2017	30,895,000	28,357,626	91.79%

- (1) There is a difference between gallons pumped and gallons billed. Gallons which are produced but not billed include certain accounts billed on the basis of estimated usage, amounts lost due to line leakage and breakage, and fire protection usage which is not metered. These variables fluctuate from year to year and impact the percentage billed. The fire protection usage is not metered but is built into the rate covenant for the System and is not considered a free use. In addition, the above usage figures do not account for reuse of non-potable water for reuse as part of the Southside Water Reuse Project.

*Source:* Albuquerque Bernalillo County Water Utility Authority.

The top ten customers of the Water System are:

**Water System Top Ten Customers<sup>(1)</sup>**  
Fiscal Year 2017

<b><u>Customer Name</u></b>	<b><u>Consumption Rate (Kgal)</u></b>	<b><u>Total FY 2017 Revenue</u></b>	<b><u>% of Total FY 2017 Revenue</u></b>
City of Albuquerque	2,884,365	\$9,134,660	5.98%
Albuquerque Public Schools	742,653	3,169,349	2.08%
University of New Mexico	136,463	1,299,145	0.85%
Bernalillo County	231,851	828,899	0.54%
Kirtland Air Force Base	148,765	684,830	0.45%
Water Authority	86,736	324,528	0.21%
Lovelace Health Systems	93,113	291,783	0.19%
Central NM Community College	64,321	278,331	0.18%
Sumitomo	110,990	270,565	0.18%
Albuquerque Academy	104,396	<u>255,004</u>	<u>0.17%</u>
<b>Total</b>		<b><u>\$16,537,094</u></b>	<b><u>10.83%</u></b>
<b>Total Revenue for Water System</b>		<b><u>\$152,676,463</u></b>	

<sup>(1)</sup>Includes non-potable water customers.

Source: Albuquerque Bernalillo County Water Utility Authority.

## **Wastewater Plant and Collection System**

The Wastewater System consists of small diameter collector sewers, sewage lift stations, and large diameter interceptor sewers conveying wastewater flows by gravity to the Southside Water Reclamation Plant. The wastewater treatment plant provides preliminary screening, grit removal, primary clarification and sludge removal, advanced secondary treatment including ammonia and nitrogen removal, final clarification, and effluent disinfection using ultraviolet light prior to discharge to the Rio Grande.

Treatment plant capacity is based upon 76 MGD hydraulic capacity. Existing flows at the plant have averaged 51.3 MGD over the past five years, but these figures do not reflect the amount of non-potable water being reused for irrigation and industrial use at the Southside Water Reclamation Plant. The Water Authority has an operational industrial pretreatment program approved by the United States Environmental Protection Agency ("EPA"). The EPA recognized that the Water Authority's pollution prevention efforts have been largely responsible for the Water Authority maintaining compliance with strict standards contained in National Pollution Discharge Elimination System ("NPDES") Permit #NM0022250. The Water Authority's wastewater effluent discharge consistently meets all NPDES permit requirements. In February 2017, the Water Authority submitted a NPDES permit renewal application. In February 2018, EPA issued a Proposed NPDES Permit and the Water Authority provided comments to EPA on June 25, 2018. To date, the Water Authority has not received a new NPDES permit.

The Water Authority received an Administrative Order from the EPA for violations of the NPDES permit associated with Sanitary Sewer Overflows, laboratory reporting issues, and

plant violations from 2001 to 2010. The Water Authority received two additional Administrative Orders (“AO”) for an overflow which occurred on February 27, 2015 as a result of a major power failure. The first AO required that the Water Authority implement electrical and other improvements to prevent another power failure and the potential for another spill. All of that work was completed in 2015 and a project completion report was filed with EPA. The second AO includes adoption of the Corrective Action Plan (CAP) items that were scheduled to be completed within the next five years. All projects in the second AO have been completed and a project completion report was submitted to EPA in June 2018.

Since January 2003, the treatment plant has had a 6.6 mega-watt cogeneration facility to provide most of its power needs. The cogeneration facilities are complemented by a one mega-watt solar energy plant that began service in December 2012. These on-site power generating facilities normally supply 100% of the treatment plant’s present electrical needs, along with providing heating of various buildings and sludge digesters. The engines are fueled by methane produced in the digesters and by natural gas purchased through a contract carrier. The Southside Water Reclamation Plant currently generates electricity from the bio-gas produced in the digesters. This is no cost gas that qualifies the electricity generated for Renewable Energy Certificates (“REC”). These certificates have a value to other electrical energy producers and the Water Authority continues to research how to sell its RECs to increase revenue.

The Water Authority currently manages wastewater sludge using two methods: surface disposal and production of compost. The Water Authority sells the compost, primarily to the State Department of Transportation. A 660-acre dedicated surface disposal site is used when seasonal market conditions are not favorable for sale of compost product. During 2017, 56% of all sludge produced at the treatment plant was beneficially recycled into compost and sold. The Water Authority’s Compliance Division operates a water quality laboratory, providing analytical support for process control and regulatory compliance for wastewater, drinking water, groundwater, storm water, surface water, the zoological park, residuals management and environmental health programs. The laboratory is internationally accredited under International Standards Organization Standard 17025 for inorganic chemistry and microbiology testing. The entire laboratory is also accredited by the American Association for Laboratory Accreditation (A2LA). The Water Authority reduces expenses by analyzing a majority of the bacteriological samples at the Water Authority’s internal water quality lab.



The following table sets forth the quantity of wastewater treated and customers served through the Wastewater System for Calendar Years 2013-2017:

**Treated Wastewater  
2013-2017**

<u>Calendar Year</u>	<u>Gallons Treated (in 000s)</u>	<u>Average # of Customers</u>
2013	20,378,630	192,387
2014	18,214,780	194,360
2015	18,122,990	193,922
2016	18,250,000	195,140
2017	18,597,000	196,921

Source: Albuquerque Bernalillo County Water Utility Authority.

The top ten customers of the Wastewater System are:

**Wastewater System Top Ten Customers**

Fiscal Year 2017

<u>Customer Name</u>	<u>Consumption Rate (Kgal)</u>	<u>Total Collected FY 2017 Revenue</u>	<u>% of Total FY 17 Revenue</u>
Kirtland Air Force Base	746,335	\$1,273,411	1.84%
University of New Mexico	566,858	901,821	1.31%
Albuquerque Public Schools	130,320	758,774	1.10%
Creamland Dairies	49,381	648,381	0.94%
City of Albuquerque	93,915	643,308	0.93%
Lovelace Health	56,804	196,583	0.28%
Bernalillo County	59,627	190,554	0.28%
Central NM Community College	29,383	113,967	0.16%
Sandia Peak Services	76,759	80,507	0.12%
Four Hills Mobile Home Park	33,565	73,920	0.11%
<b>Total</b>		<b>\$4,881,225</b>	<b>7.07%</b>
<b>Total Revenue Wastewater System</b>		<b>\$69,101,505</b>	

Source: Albuquerque Bernalillo County Water Utility Authority.

**Management of the System**

Water Authority management is responsible for day-to-day operations of the System, policy, System expansion, budget, rates, personnel reorganizations, unbudgeted intra-year positions, negotiation or renegotiation of labor contracts and litigation relating to the System. The individuals described in the following paragraphs are the present management for the Water Authority.

Mark Sanchez, Executive Director. Mr. Sanchez has been the Executive Director of the Water Authority since its inception in 2004, and was formerly the Director of Council Services for the Albuquerque City Council. Mr. Sanchez holds a Master's Degree in Business Administration from New Mexico Highlands University and a Master's Degree in Public Administration from the University of New Mexico. He is a graduate of the Harvard JFK School of Government Program for Senior Executives in State and Local Government. Mr. Sanchez has held executive-level positions in government, private sector and the non-profit sector in the areas of water, reuse and wastewater, business and government policy, housing and community development, health, human and social services, job training and economic development. Mr. Sanchez serves as Chairman of the New Mexico Interstate Stream Commission, President of the National Association of Clean Water Agencies and is a member of the United States Environmental Protection Agency Drinking Water Advisory Council. He has been very active at the local, state and national levels on water, reuse and wastewater utility issues.

John M. Stomp, P.E., Chief Operating Officer. Mr. Stomp is responsible for the Water Authority's operations group including the water and wastewater treatment plants, wastewater collection systems and lift/vacuum stations, and water distribution and transmission lines. In addition, Mr. Stomp is responsible for managing the Planning and Engineering Division and the Compliance Divisions. Mr. Stomp was the Water Resources Manager for over ten years prior to becoming the Chief Operating Officer. Mr. Stomp has been employed by the City, and the Water Authority as successor, since April 1996. Prior to employment with the Water Authority, Mr. Stomp was employed as a project manager by local and national water/wastewater consulting firms. Mr. Stomp has been involved with water and wastewater issues in Albuquerque and throughout New Mexico for approximately 30 years. He has a Bachelor's and Master's Degree in Civil Engineering from the University of New Mexico. Mr. Stomp is a certified Level IV Water and Wastewater Operator in the State of New Mexico.

Stan Allred, Chief Financial Officer. Mr. Allred held the position of Finance Officer, Water Utility Department from June 2003 until May 2008 when he was promoted to Chief Financial Officer. Mr. Allred is responsible for the Financial/Business Services Group which includes all finance, accounting, information services and Water Authority warehouse functions. He has approximately 30 years of financial and cost accounting experience. Prior to employment with the Water Authority, Mr. Allred was employed as a director with a multi-billion dollar national long-term care corporation. Mr. Allred was involved with corporate financial reporting requirements and rate setting for Medicare and 15 different state Medicaid systems. Mr. Allred has a BBA with a concentration in Accounting from the University of New Mexico.

Hobert "H" Warren, Field Operations Manager. Mr. Warren has held the manager position since 2012. . He obtained his Bachelor of Business Administration from the University of New Mexico. His career has spanned over 21 years in the areas of operations, compliance, collections, construction, transition planning, automated meter reading implementation, smart water, billing systems, and rate studies. Prior to employment with the Water Authority, Mr. Warren was the local operations manager for a company that owns and operates more than 130 regulated water and wastewater systems in nine states.

Charles S. Leder, P.E., Plant Operations Manager. Mr. Leder has held the Division Manager position since July of 2012 after serving as a Principal Engineer for Plant Operations since March 2010. He has over 41 years of experience in planning, design, construction, and operations of water and wastewater facilities. Mr. Leder has a BS from the Johns Hopkins University, and an MS in Sanitary Engineering from the Georgia Institute of Technology.

David J. Price, P.E., Planning & Engineering Division Manager. Mr. Price has been in his current position since April 2010. Prior, he was the Chief Engineer for the Plant Division – Drinking Water. Before joining the Water Authority, Mr. Price spent 19 years as a consulting engineer with a focus on the evaluation and design of drinking water systems. He has a B.A. in Political Science from the University of Pennsylvania, a B.S. in Civil Engineering from the University of Arizona, and a M.S. in Environmental Engineering also from the University of Arizona.

Cody R. Stinson, Chief Information Officer. Mr. Stinson has a Bachelor's Degree from the University of New Mexico in Management of Information Systems, and a M.B.A. from the University of New Mexico in Management of Technology. Mr. Stinson also has over 19 years of Information Technology experience, including work for the New Mexico State Judiciary, and as Deputy Chief Information Officer for Bernalillo County. Mr. Stinson has managed several large implementations, including the Video Arraignment Process for the Bernalillo County Metropolitan Court, and the County's procurement and implementation of SAP, which is an Enterprise Resource Planning Application.

Peter Auh, General Counsel. Mr. Auh has been with the Water Authority since December 27, 2016. He obtained his law degree from the University of Iowa College of Law in 1987, and was admitted to the New Mexico Bar in 1988. His legal career began with 16 years in private practice, first with a law firm and then as a solo practitioner. Mr. Auh entered the public sector in 2002, as an assistant city attorney with the City of Albuquerque's litigation section before joining the Bernalillo County Attorney's office where he served as the deputy county attorney. In 2014, Mr. Auh joined the New Mexico Attorney General's Office as the deputy attorney general in charge of four civil divisions. Immediately prior to becoming General Counsel for the Water Authority, Mr. Auh held the position of Senior Litigation Attorney with the New Mexico Association of Counties. In his 30 years of legal practice, Mr. Auh has gained experience in a wide variety of matters that are of regular concern to public bodies, including procurement, sunshine laws, personnel and labor issues, administrative law, torts and civil rights, eminent domain, land use, easements and rights of way acquisition and the drafting of ordinances and resolutions.

Mark P. Kelly, P.E., Compliance Division Manager. Mr. Kelly has been in his current position since December 2014. Previous to his current position, he was the Industrial Pretreatment Engineer. Mr. Kelly has 14 years of engineering experience in water and wastewater system design, as well as landfill design. He has a B.S. in Environmental Engineering from the New Mexico Institute of Mining and Technology.

Katherine M. Yuhas, Water Resources Division Manager. Ms. Yuhas has been in her current position since 2016. Prior to that she served as the Water Authority's Water Conservation Officer from 2003-2016. Ms. Yuhas has 23 years of experience working in water resources

management in New Mexico. She holds a B.S. in Geology/Environmental Science from the University of Pennsylvania.

### **Administrative Services**

The City provides certain services to the Authority pursuant to a Memorandum of Understanding ("MOU"), dated July 1, 2013 with an initial termination date of June 30, 2018, which has been extended for one year by mutual agreement. These services include the Authority's rental of space and computer equipment from the City and Authority employees' participation in certain City employment benefits. Since July 1, 2013, the operations of the Authority are largely autonomous from the City and County.

## FINANCIAL INFORMATION

### Statement of Net Position

The following table is the historical statement of net position for the System for Fiscal Years Ended June 30, 2014-2018.

	<u>2018<sup>(1)</sup></u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
<b>ASSETS</b>					
Current Assets					
Cash and investments	\$148,798,235	\$125,990,458	\$101,195,934	\$68,886,433	\$23,118,415
Cash held for debt service	0	0	0	0	37,717,945
Accounts receivable	19,518,630	19,607,343	18,981,742	14,678,230	14,513,349
Due from other governments	-	1,295	447,969	932,227	2,616,356
Prepaid assets	27,705	57,380	0	0	0
Notes receivable	741,487	715,219	740,459	790,870	817,849
<b>Total Current Assets</b>	<b>\$169,086,057</b>	<b>146,371,695</b>	<b>121,366,104</b>	<b>85,287,760</b>	<b>78,783,914</b>
Noncurrent Assets					
Long-term receivables	4,863,339	4,174,174	3,958,777	3,754,006	3,946,792
Restricted Assets					
Cash and investments	9,467,562	56,956,621	46,529,971	77,114,772	31,848,311
Post-Employment life insurance benefit trust	0	0	0	798,900	818,273
<b>Total Restricted Assets</b>	<b>14,330,901</b>	<b>61,130,795</b>	<b>50,488,748</b>	<b>81,667,678</b>	<b>32,613,376</b>
Capital Assets, net of accumulated depreciation					
Buildings and other improvements	1,062,682,635	1,075,561,839	1,099,794,736	1,094,473,803	1,146,008,251
Purchased water rights	49,251,368	49,251,368	48,862,906	48,240,385	45,116,733
Land	25,204,443	25,170,378	25,170,378	25,724,125	25,702,293
Machinery and equipment	11,825,842	9,684,964	3,754,006	3,754,006	3,946,792
Construction work in progress	32,261,354	22,764,278	3,791,893	42,578,965	16,202,781
<b>Total Capital Assets</b>	<b>1,181,225,642</b>	<b>1,182,432,827</b>	<b>1,187,300,706</b>	<b>1,220,391,650</b>	<b>1,245,562,198</b>
Capitalized bond issuance costs	0	0	0	0	0
<b>Total Noncurrent Assets</b>	<b>1,195,556,543</b>	<b>1,243,563,622</b>	<b>1,237,789,454</b>	<b>1,302,059,328</b>	<b>1,282,175,574</b>
<b>TOTAL ASSETS</b>	<b>1,364,642,600</b>	<b>1,389,935,317</b>	<b>1,359,155,558</b>	<b>1,387,347,088</b>	<b>1,360,959,488</b>
<b>DEFERRED OUTFLOWS OF RESOURCES</b>					
Deferred amounts related to other post-employment benefits	851,337				
Deferred amounts related to pensions	12,103,929	20,395,732	3,020,719	6,425,778	0
Deferred amounts on refunding	20,142,951	23,089,446	23,114,769	25,878,691	0
<b>Total deferred outflows of resources</b>	<b>33,098,217</b>	<b>43,485,178</b>	<b>26,135,488</b>	<b>32,304,469</b>	<b>0</b>
<b>LIABILITIES</b>					
Current Liabilities					
Accounts payable	13,091,914	15,530,540	12,910,228	10,500,449	10,860,709
Accrued payroll	1,663,520	1,495,559	2,582,062	2,129,109	2,305,108
Claims payable, current portion	1,411,264	671,543	993,586	563,865	0
Accrued compensated absences	3,955,443	3,569,503	3,019,584	2,663,822	3,349,805
Deposits	818,630	766,608	687,857	727,676	766,419
Construction contracts payable	0	0	0	0	5,272,729
Current portion debt obligation bonds	49,210,000	37,930,000	37,265,000	35,530,000	24,735,000
Loan agreements/lines of credit	4,481,483	4,285,917	9,710,054	8,508,529	10,109,815
Water rights contract	1,206,021	1,170,372	1,135,776	1,102,203	1,069,622
Accrued interest payable	0	0	0	0	276,343
Accrued interest for debt obligations	11,894,018	12,726,908	13,278,888	12,568,850	13,326,311
<b>Total Current Liabilities</b>	<b>87,732,293</b>	<b>78,146,950</b>	<b>81,583,035</b>	<b>74,294,503</b>	<b>66,822,789</b>
Noncurrent Liabilities					
Debt obligations					
Bonds net premium/discounts	549,231,176	609,982,924	584,931,928	634,147,215	508,809,453
Loan agreements/line of credit	36,841,939	41,934,953	48,078,533	58,704,590	127,174,021
Water rights contract	5,202,796	6,408,817	7,579,189	8,714,965	9,817,168
Unamortized premium	0	0	0	0	23,863,736
<b>Total Debt Obligations</b>	<b>591,275,911</b>	<b>658,326,694</b>	<b>640,589,650</b>	<b>701,566,770</b>	<b>645,800,642</b>
Other Noncurrent Liabilities					
Claims payable, net of current position	2,078,628	2,280,290	1,429,794	1,188,165	0
Net pension liability	51,278,088	59,008,103	38,165,167	29,351,538	0
Net post-employment benefit obligation liability	36,642,124	385,874	389,848	415,763	390,711
Accrued compensated absences	140,834	176,298	367,674	889,528	1,222,954
<b>Total Other Noncurrent Liabilities</b>	<b>90,139,674</b>	<b>61,850,565</b>	<b>40,352,483</b>	<b>31,844,994</b>	<b>1,613,665</b>
<b>Total Noncurrent Liabilities</b>	<b>681,415,585</b>	<b>720,177,259</b>	<b>680,942,133</b>	<b>733,706,267</b>	<b>647,414,307</b>
<b>TOTAL LIABILITIES</b>	<b>769,147,878</b>	<b>798,324,209</b>	<b>762,525,168</b>	<b>807,706,267</b>	<b>714,237,096</b>
<b>DEFERRED INFLOWS OF RESOURCES</b>					
Deferred amounts related to other post-employment benefits	8,204,942				
Deferred amounts related to pensions	3,483,273	1,089,646	1,095,992	11,502,989	0
<b>NET POSITION</b>					
Net investment in capital assets	564,662,740	560,765,911	568,244,966	576,677,611	595,695,430
Unrestricted	52,241,984	73,240,729	53,424,920	23,764,690	51,026,962
<b>TOTAL NET POSITION</b>	<b>\$616,904,724</b>	<b>\$634,006,640</b>	<b>\$621,669,886</b>	<b>\$600,442,301</b>	<b>\$646,722,392</b>

(1) Unaudited.

Source: Albuquerque Bernalillo County Water Utility Authority Comprehensive Annual Financial Reports.

## Revenues and Expenditures

The following table shows the historical revenues and expenditures for the System for Fiscal Years ended June 30, 2014-2018:

	<u>2018<sup>(1)</sup></u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
<b>Operating Revenues</b>					
Charges for services	<u>\$226,396,492</u>	<u>\$215,193,982</u>	<u>\$210,056,776</u>	<u>\$192,311,627</u>	<u>\$182,350,428</u>
<b>Operating Expenses</b>					
General and administrative	64,227,419	63,307,749	59,910,588	61,106,551	-
Source of supply, pumping, treating, distr.	48,334,427	48,017,762	46,986,703	46,524,899	-
Non-capitalized major repair	7,586,879	5,795,924	4,285,103	6,428,665	-
Salaries and fringe benefits	-	-	-	-	50,381,058
Professional services	-	-	-	-	1,726,252
Utilities	-	-	-	-	15,076,188
Supplies	-	-	-	-	1,504,730
Fuels, repairs and maintenance	-	-	-	-	18,749,564
Chemicals	-	-	-	-	5,943,487
Contractual services	-	-	-	-	9,179,077
Franchise fees	-	-	-	-	6,714,627
Tort and other legal fees	-	-	-	-	2,306,928
Workman's compensation costs	-	-	-	-	351,186
Administrative fees other governments	-	-	-	-	271,588
Other operating expenses	-	-	-	-	1,671,153
Depreciation	82,461,610	81,648,334	80,357,265	83,094,979	84,788,418
Amortization	-	-	-	-	448,100
Bad debt expense	≡	≡	≡	≡	<u>56,973</u>
Total Expenses	<u>202,610,335</u>	<u>198,769,769</u>	<u>191,539,659</u>	<u>197,155,094</u>	<u>199,169,329</u>
<b>Operating Income/Loss</b>	<u>23,786,157</u>	<u>16,424,213</u>	<u>18,517,117</u>	<u>(4,843,467)</u>	<u>(16,818,901)</u>
Non-operating revenues (expenses)					
Interest on investments	483,793	86,073	155,431	44,453	159,870
Interest expense	(18,294,865)	(18,448,939)	(18,034,371)	(19,856,948)	(27,545,590)
Utility expansion charges	10,397,749	8,545,978	9,256,938	7,541,201	7,872,236
Debt issuance costs	-	(710,270)	-	(2,272,566)	(812,445)
Lease of stored water	78,537	1,181,658	1,615,215	99,627	3,536,037
Other revenues	<u>2,372,131</u>	<u>1,735,797</u>	<u>4,212,925</u>	<u>2,057,745</u>	<u>4,766,159</u>
Total non-operating income	<u>(4,962,655)</u>	<u>(7,609,703)</u>	<u>(2,793,862)</u>	<u>(12,386,488)</u>	<u>(12,023,733)</u>
<b>Income (loss) before contributions</b>	18,823,502	8,814,510	15,723,255	(17,229,955)	(28,842,634)
Capital contributions	<u>6,907,008</u>	<u>3,522,244</u>	<u>5,504,330</u>	<u>7,347,569</u>	<u>9,388,162</u>
<b>Change in Net Position</b>	25,730,510	12,336,754	21,227,585	(9,882,386)	(19,454,472)
<b>Net Position July 1, as restated</b>	<u>591,174,214<sup>(2)</sup></u>	<u>621,669,886</u>	<u>600,442,301</u>	<u>610,324,687<sup>(3)</sup></u>	<u>653,350,620</u>
<b>Net Position June 30</b>	<u>616,904,724</u>	<u>\$634,006,640</u>	<u>\$621,669,886</u>	<u>\$600,442,301</u>	<u>\$633,896,148</u>

(1) Unaudited.

(2) Net position as of July 1, 2017 was restated to conform to GASB No. 75, reflecting an adjustment to record the Water Authority's net other post-employment liability.

(3) Net position as of July 1, 2015 was restated to conform to GASB No. 68, reflecting an adjustment to record the Water Authority's net pension liability.

Source: Albuquerque Bernalillo County Water Utility Authority Comprehensive Annual Financial Reports.

## Operating Revenue

The following table outlines the Water Authority's revenue from water and wastewater charges and other operating revenue as measured in the Statement of Revenues, Expenses and Change in Net Position for the past five years.

### Revenue from Water and Wastewater Charges and Other Operating Revenue

<b>Fiscal Year</b>	<b>Revenue from Water Charges</b>		<b>Revenue Wastewater Charges</b>	<b>Other Operating Revenue<sup>(3)</sup></b>	<b>Total Operating Revenue</b>
	<b>For General Operations<sup>(1)</sup></b>	<b>For WRMS<sup>(2)</sup></b>			
2014	\$91,229,726	\$28,561,586	\$61,327,115	\$1,232,000	\$182,350,427
2015	96,878,168	29,939,349	64,171,110	1,323,000	192,311,627
2016	140,551,140	-	68,166,636	1,339,000	210,056,776
2017	144,342,932	-	69,101,050	1,750,000	215,193,982
2018 <sup>(4)</sup>	148,315,450	-	76,253,042	1,828,000	226,396,492

- (1) The General Operations revenues are excluding franchise fees as revenue for the Water Authority. Franchise fees are a pass-through, and therefore should not be included as revenue for the Water Authority.
- (2) These revenues are attributable to rate increases adopted to finance capital costs and operating expenses to implement the Water Resource Management Strategy. In Fiscal Year 2016, the WRMS revenues were combined with General Operations revenues as part of the new rate ordinance structure.
- (3) These revenues are derived from the State Water Conservation Fees, Water Resource Management Fees, meter rentals and other miscellaneous services.
- (4) Unaudited.

Source: Albuquerque Bernalillo County Water Utility Authority Comprehensive Annual Financial Report.

## Utility Expansion Charges

In order to fund expanded capacity needs of the System, all new customers are charged one-time utility expansion charges ("UECs") for water and wastewater services. The charges are calculated by analyzing the average forecast of new customers over a five-year period, average expansion-related construction expenditures and the revenues generated by such customers. The Development Fees Act, NMSA 1978 Sections 5-8-1 through 5-8-42, as amended from time to time, authorizes the imposition of utility expansion charges and provides for a method of calculation of such charges which is consistent with historical calculations by the Water Authority and the City. Under the Development Fees Act, the Water Authority is required to prepare a capital implementation plan and to calculate a maximum impact fee under the allowed method, applicable to any impact fee imposed on or after July 1, 1995.

The current UECs have been reviewed and updated as contemplated under the Development Fees Act. The determination of water and wastewater UECs is based on the calculated unit-cost of capacity for major infrastructure elements which have been constructed, or are planned to be constructed, as part of an approved 10-year plan. When UECs are charged to new customers, the charge is apportioned to reflect the capacity that customer is requesting,

depending on the size of service. Larger sized service installations have greater use capacity needs, and thus a greater proportion of the UEC cost basis is allocated to that service size.

The Water Authority may adjust the UECs annually by the Engineering News Records (“ENR”) indexes. These cost indices are the building cost or construction cost indices (“BCI” and “CCI”) per the ENR. The ENR tracks changes in building and construction costs (the difference between the levels of labor costs; the CCI being more heavily weighted on labor costs) for a 20-city average. These indices are commonly used to estimate the replacement costs of utility infrastructure. The Water Authority’s rate consultant recommends the comparison of the CCI and BCI as the best approach to apply to UECs and the water supply charge discussed below.

The following table sets forth the current water and wastewater utility expansion charges.

### **Current Utility Expansion Charges**

<b><u>Meter Size</u></b>	<b><u>Water Charge</u></b>	<b><u>Wastewater Charge</u></b>
¾”	\$3,151	\$2,364
1”	5,251	3,939
1 ½”	10,502	7,877
2”	16,808	12,602
3”	33,608	25,266
4”	52,514	40,382
6”	105,031	80,769
8” & over	168,048	126,030

*Source:* Albuquerque Bernalillo County Water Utility Authority Comprehensive Annual Financial Report.

During Fiscal Years 2014 through 2018, the following revenue from the collection of UECs was received.

### **Revenue from Utility Expansion Charges**

<b><u>Fiscal Year</u></b>	<b><u>Total UEC Revenues</u></b>
2014	\$7,872,237
2015	7,541,201
2016	9,256,938
2017	8,545,978
2018	10,397,749

*Source:* Albuquerque Bernalillo County Water Utility Authority Comprehensive Annual Financial Report.

Water Authority policy requires that expansion or improvement of the System for development purposes be at no net expense to the Water Authority. Revenues generated from the expansion of the System must be sufficient to support the costs of water and wastewater facilities



and the related infrastructure. The facilities constructed must meet the level of service standards agreed upon between the developer and the Water Authority in the applicable development agreement. Increased revenues should correlate to the additional operational and maintenance expenses for the System expansion. The developer bears the risk and expense for any revenue shortfall related to the System expansion.

### **Water Resource Charge**

The Water Resource Charge (“WRC”) is assessed by the Water Authority at the time of meter sale or application for service to any new water customer requesting connection to the System in an area not located within the Water Authority’s service area requiring a development agreement. The proceeds from this charge are dedicated and restricted to the development of new water resources, rights or supplies to serve the beneficiary new customers outside of the service area consistent with the Water Authority’s Regional Water Plan and Water Resources Management Strategy and other guiding principles adopted by the Water Authority. The amount of the WRC is adjusted annually by BCI or CCI as published by ENR. The WRC does not apply to non-potable water service. The Water Authority’s rate consultant has reviewed the methodology used in the calculation in developing the WRC and has agreed to its development and it is one that is widely applied in the industry.

The following table sets forth the current water resource charges.

#### **Current Water Resource Charges**

<b><u>Meter Size</u></b>	<b><u>Water Resource Charge</u></b>
¾”	\$1,669
1”	2,793
1 ½”	5,564
2”	8,902
3”	17,806
4”	27,627
6”	55,760
8” & over	89,023

Source: Albuquerque Bernalillo County Water Utility Authority

### **Rate Stabilization Fund**

The Rate Stabilization Fund reserves water and wastewater revenues in a dedicated fund for the purpose of offsetting declines in rate revenue and to mitigate future rate increases. The Rate Stabilization Fund is currently funded at \$2 million annually. There is no funding cap set for the Rate Stabilization Fund and the current balance is \$7.0 million for Fiscal Year 2018. Consistent with the Rate Stabilization Fund’s intended use, the Water Authority withdrew \$4.0 million of available funds in Fiscal Year 2013 due to declining revenues. Any expenditure from this Rate Stabilization Fund requires an appropriation approved by the Water Authority Board.

## **Additional Charges**

The following variable charges are in effect for all accounts to which the specific criteria for each charge apply.

**Water Commodity Charge:** Water usage metered or estimated is at a rate of \$2.018 per unit (1 unit = 100 cubic feet or 748 gallons).

**Water Conservation Charge:** Annually, the average water usage for the months of December through March is calculated and used in determining the surcharge during the months of April through October. The surcharge amount added for each unit exceeding 200% of the customer's individual winter mean water usage is equal to 50% of the commodity charge, and is added to the base commodity charge, the water conservation fee charged by the State and the sustainable water supply charge per unit. A second tier surcharge for each unit exceeding 300% of the customer's individual winter mean water usage is equal to an additional 50% of the commodity charge, and is added to the base commodity charge, the water conservation fee charged by the State and the sustainable water supply charge per unit. A third tier surcharge for each unit exceeding 400% of the customer's individual winter mean water usage is equal to an additional 50% of the commodity charge, and is added to the base commodity charge, the water conservation fee charged by the State and the sustainable water supply charge per unit.

**Wastewater Commodity Charge:** All wastewater discharged is charged at a rate of \$1.682 per unit for residential, commercial, industrial and institutional customers and \$0.878 per unit for wholesale customers based on either 95% of the average metered or estimated volume of water for the previous winter months of December through March, or based on 95% of the actual water used if that amount is less.

## **Rate Comparisons**

The Water Authority continues to keep water and wastewater rates at a competitive level. Based on results for the 2012 Water and Wastewater Rate Survey, extracted from the water/wastewater survey by the American Water Works Association, the Authority was ranked at or below average for water and wastewater rates, based upon a usage of 11,200 gallons for water and 7,480 gallons for wastewater.

## **Water/Wastewater Billing and Collections**

The Water Authority imposes all rates and charges through a water and wastewater rate ordinance. Charges are billed to the property and are the responsibility of the property owner (except in cases of leased property for which the Water Authority is notified that the tenant will have payment responsibility). Property liens may be filed and foreclosed as provided by State law.

The Water Authority performs all meter reading services in connection with the System. Meters are read and billed once each month. Customers are billed within the same approximate time frame each month depending upon the location of the customer. Customers are billed the same day their meters are read. The payment is delinquent if not made within 15 days following

the due date on a utility statement. A penalty of 1.5% per month may be imposed on any delinquent account. The Water Authority may cause the water supply to be turned off and discontinue service to the property if any charge remains unpaid for a period of 30 days from the original due date on the customer's utility statement.

The Water Authority has made efforts to reduce delinquencies through aggressive collection attempts with changes in the method of assigning turn-off crews work assignments and the use of a check collection vendor. The delinquency rate has historically averaged 2.49% and is currently at 1.39%.

### **Rates and Charges of the System**

The Water Authority has mandated that the operation and maintenance of the System be self-sustaining. Consistent with this mandate, the System is budgeted as a self-sustaining enterprise fund for the purpose of determining costs associated with providing water and wastewater services. Ordinances authorizing issuance of System obligations prohibit Net Revenues of the System from being transferred to other funds, and require Net Revenues to be used for lawful System purposes including redemption of System obligations or paying costs and expenses relating to administration of System obligations.

The capital and operating budgets for the System are submitted by the Executive Director to the Board by April of each year for the fiscal year which begins July 1. The Board considers the budgets, together with the rates necessary to finance the operation and capital improvements, and adopts the budget and rates necessary for the next fiscal year no later than May of each year.

The Federal Water Pollution Control Act Amendments of 1974 have a stated goal of restoring and maintaining the chemical, physical and biological integrity of the nation's waters. As a result, each federally funded and publicly owned wastewater treatment facility is required to charge each user a proportionate share of the costs of operation and maintenance. Since the Water Authority receives federal grant funds through the United States Environmental Protection Agency, the requirements under the Amendments must be met. Accordingly, the Water Authority has incorporated the following items into the wastewater rate structure:

- (i) Costs benefiting both water and wastewater operations have been identified, and each cost has been evaluated to determine an appropriate basis for its allocation between water and wastewater service.

- (ii) Budgeted wastewater categories for collection, treatment, disposal and an equitable portion of the administration expenses have been isolated for wastewater rate-making purposes.

- (iii) A "high-strength sewage treatment surcharge" is imposed in order that each user pay his proportionate share of the operational, maintenance and replacement costs to treat liquid waste discharged with significant levels of pollutants above the domestic level.

### *Current Levels of Base Rates and Charges*

Customers pay fixed rates for water and wastewater services as well as additional charges which vary depending on the volume of water used or discharged. These fixed rates are designed to cover, at a minimum, customer service costs and all debt service costs. The rate structure is designed to ensure that debt service costs are covered, regardless of changes in conditions such as drought or the continued success of the Water Authority's water conservation efforts. Residential customers pay fixed water rates (depending on service size) between \$15.91 and \$3,028.15, while commercial customers pay between \$16.67 and \$3,141.01. For wastewater service, residential customers pay a fixed wastewater rate (depending on service size) between \$10.53 and \$1,173.95, while commercial customers pay between \$13.03 and \$1,491.33.

### *Increases to Rates and Charges*

The Water Authority has increased System rates and charges by the following percentage increases during Fiscal Years 2012-2018 as described below due to a decrease in consumption levels.

<b>Implemented and Approved Increases in Rates and Charges</b>			
<b><u>Fiscal Year</u></b>	<b><u>% Increase</u></b>		
	<b><u>General Operations</u></b>	<b><u>WRMS</u></b>	<b><u>Franchise Fee</u></b>
2012	5	5	0
2013	0	0	0
2014	5	0	0
2015	5	0	0
2016	5	0	0
2017	0	0	0
2018	5	0	0

Source: Albuquerque Bernalillo County Water Utility Authority.

### **Customer Information**

The following tables set forth historical information regarding the average number of customers of the Water System by meter size and class during Fiscal Years 2014 through 2018.

<b><u>Meter Size</u></b>	<b><u>2014</u></b>	<b><u>2015</u></b>	<b><u>2016</u></b>	<b><u>2017</u></b>	<b><u>2018</u></b>
¾"	171,395	184,743	185,894	182,232	183,398
1" and 1 ¼"	17,474	17,447	17,392	17,796	17,975
1 ½"	2,238	2,269	2,300	2,381	2,467
2"	2,303	2,349	2,386	2,509	2,575
3"	578	575	590	603	606
4"	270	276	278	282	284
6"	60	63	64	68	66
8" and over	42	40	41	42	43
Non-metered	-	-	-	4,302	4,485
<b>Total</b>	<b>194,360</b>	<b>207,762</b>	<b>208,945</b>	<b>210,215</b>	<b>211,899</b>

Source: Albuquerque Bernalillo County Water Utility Authority.

### History of Water Users by Class

<b><u>Class</u></b>	<b><u>Fiscal Year</u></b>				
	<b><u>2014</u></b>	<b><u>2015</u></b>	<b><u>2016</u></b>	<b><u>2017</u></b>	<b><u>2018</u></b>
Residential	174,193	186,461	187,479	181,814	183,018
Multi-Family	6,569	7,115	7,268	7,801	7,851
Commercial	11,303	11,923	11,901	11,913	12,023
Institutional	2,196	2,150	2,187	3,650	3,680
Industrial	99	113	110	119	122
Other Meter	-	-	-	616	720
Solid Waste	-	-	-	-	1,365
Only	-	-	-	1,362	-
Non-meter	-	-	-	2,940	3,120
<b>Total</b>	<b>194,360</b>	<b>207,762</b>	<b>208,945</b>	<b>210,215</b>	<b>211,899</b>

Source: Albuquerque Bernalillo County Water Utility Authority.

According to the Water Authority's records for Fiscal Year 2017, the top ten retail customers of the System, in the aggregate, accounted for no more than 16.89% of the total billed consumption for the Water System, 11.47% of the total revenue of the Water System, 10.17% of the total billed consumption for the Wastewater System and 7.05% of the total revenue of the Wastewater System.

During Fiscal Year 2017, 51.18% of billed water consumption was residential, while 15.52% was classified as commercial. The balance consisted of multi-family users consuming 16.73%, institutional users consuming 6.08%, industrial users at 1.20% and special contracts and hydrants meters at 9.27%.

**Selected Water/Wastewater System Statistics  
(Calendar Year)**

	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>
Estimated Population (Service Area)	643,881	656,305	658,238	670,779	676,298
Number of Meters Billed	205,316	206,944	208,200	208,140	206,606
Estimated Persons Per Meter	3.14	3.17	3.16	3.22	3.27
Annual Pumpage (1,000 Gallons)	33,222,000	30,836,000	29,498,000	30,720,000	30,895,000
Annual Water Billed (1,000 Gallons)	28,113,371	28,075,612	27,195,260	28,250,591	28,357,626
Average Daily Pumpage (Gallons)	91,019,178	84,482,192	80,816,438	84,164,384	84,357,626
Peak Day Pumpage (Gallons)	157,000,000	144,000,000	146,000,000	159,000,000	150,600,000
Average Daily Production Per Meter (Gallons)	443	408	388	404	410
Well Pumping Capacity (per 24 Hour Period)	187,000,000	183,000,000	184,000,000	178,000,000	176,000,000
Storage Capacity (Gallons)	249,000,000	253,000,000	245,000,000	245,000,000	245,000,000
Surface Water Treatment Plant Capacity (Gallons)	84,000,000	84,000,000	84,000,000	84,000,000	84,000,000
Surface Water Pumping Capacity (Gallons)	140,000,000	140,000,000	140,000,000	140,000,000	140,000,000
Surface Water Storage Capacity (Gallons)	20,000,000	20,000,000	20,000,000	20,000,000	20,000,000
Fire Hydrants	15,249	15,344	15,572	15,646	15,731
Southside Water Reclamation Plant Capacity (Gallons)	76,000,000	76,000,000	76,000,000	76,000,000	76,000,000
Number of Miles of Lines <sup>(1)</sup>					
-Water	2,680	2,691	2,721	2,729	2,739
-Wastewater	1,875	1,879	1,900	1,904	1,908
Surface Water	37	37	37	37	37

(1) Estimated

Source: Albuquerque Bernalillo County Water Utility Authority.

## **Financial Management**

### *Financial Policies*

The Water Authority has implemented various financial policies to facilitate its performance based budgeting process which requires balanced budgets. The Water Authority expects to spend approximately \$54 million in Fiscal Year 2018, and increase \$3.0 million annually, for System rehabilitation with basic system capital needs being funded, on average, by at least 50% cash and grants and the remaining 50% to be funded with bond or loan proceeds. The Water Authority's policy with respect to debt issuance is to seek target coverage of 150% of debt service on all lien levels for current and future years with the debt service coverage being monitored at the end of each quarter. Bonds issued to finance basic capital needs will not exceed a final maturity of 12 years. Pursuant to the Water Authority's "no net expense" System expansion policy, infrastructure for new development within or outside the System's service area will not be funded from the System's existing customer base. The Water Authority's budget process and Capital Implementation Program ("CIP") are described in greater detail below.

### *Budget Process*

The Water Authority operates on a fiscal year basis, from July 1 through June 30. The Board has adopted a Budget Ordinance that provides for the formulation and approval of the Water Authority's annual operating and capital budgets. The Budget Ordinance requires the establishment of five-year goals and one-year objectives to guide the budget process. The goals and objectives provide the framework for the delivery of services, implementation of planned capital improvements, promoting active citizenship participation and measuring performance. The operating budget is prepared on an accrual basis of accounting. The Executive Director formulates the operating budget to be consistent with the goals and objectives as established and approved by the Board. Operating and capital budgets are submitted by the Executive Director to the Board at the April meeting each year and, following at least two public hearings, must be approved or amended and approved before or at the May meeting each year.

The annual operating and capital budgets determine the Water Authority's appropriations by fund. Expenditures may not legally exceed appropriations. The Water Authority's Chief Financial Officer and staff are responsible for monitoring and controlling operation and project expenditures to ensure that budgeted appropriations are not exceeded. Financial status reports are presented to the Board quarterly. Budget amendments during or after the end of the fiscal year require approval by the Board, except that the Executive Director has authority to transfer or change line-item expenditures within the operating budget up to 5% or \$100,000, cumulatively, whichever is less, provided that no such adjustment shall result in a change in the total expenditures authorized in the Water Authority's budget.

The Executive Director develops the CIP which consists of a ten-year plan of capital expenditures, including a detailed yearly CIP budget which is submitted to the Board in accordance with the Budget Ordinance. Development of the CIP plan is based on information collected and analyzed on the Water Authority's capital assets. Maintenance, rehabilitation, and replacement of assets are linked to the Water Authority's short- and long-term financial needs and

reflected in the CIP plan and operating budget. The budget amounts of the capital project funds are individual project budgets authorized by the Board for the entire length of the project which are not necessarily the same as the Water Authority's fiscal year. The Executive Director may transfer funding up to 10% of an existing capital project as approved by the Board, provided the change does not significantly alter the project's scope. The Budget Ordinance also sets forth requirements for Board review and approval of applications or proposals for state and federal grants.

### *Capital Implementation Program*

The blueprint for the Water Authority's capital program is the Decade Plan, a ten-year capital plan required to be updated biennially in even numbered fiscal years with two, four, six, eight and ten-year planning elements. The Decade Plan includes detailed requirements for program development and project scope, schedule, budget, justification and alternatives. The Decade Plan requires approval by the Water Authority Board with at least one public hearing and due deliberation. In those fiscal years where the Decade Plan must be updated, the new Decade Plan must be approved by the Water Authority's Board before that year's Capital program budget can be approved. This policy ensures there is always an approved two-year planning element in place for every approved annual capital program budget.

The Water Authority's capital program is comprised of categories of projects, each with its own funding rules. The Basic Capital Program is funded by recurring revenues generated from the water/wastewater rate structure. Special Projects are done outside of the Basic Capital Program but are funded from the same revenue stream that funds the Basic Capital Program. Since the Basic Capital Program is the first in line to get this revenue, the size and scope of these special projects depend upon the availability of resources. "Dedicated Revenue" projects have a revenue element in the rate structure dedicated for that specific purpose and accordingly, their size and scope are dependent upon the revenue stream generated. The Water Authority has increased in recent years its utilization of state and federal grants to fund some capital projects in whole or in part.

Basic Capital Program needs are incorporated into the water/wastewater rate structure. The Rate Ordinance requires that Basic Capital Program needs are funded, on average, by 50% from cash, with the balance of capital funding obtained through debt financing. The rate structure is designed to provide sufficient revenue to meet the cash requirement and to meet the debt service obligations incurred to finance the remainder of the Basic Capital Program. System growth projects are funded through UEC revenues, either by reimbursing capital investments made under the terms of a developer agreement, or by direct appropriation to Water Authority capital projects. UEC revenue is considered cash for purposes of meeting the 50% test.

The current Decade Plan, Fiscal Year 2018 – Fiscal Year 2027, is designed to focus on meeting the basic utility needs for water and wastewater assets, balancing growth and rehabilitation, and meeting federal and state regulatory requirements. The program focuses on maintaining safe drinking water, meeting pollution control standards, providing adequate fire protection and water system reliability, and implementing an asset management approach for



rehabilitating deteriorated water and wastewater infrastructure at a targeted \$60 to \$85 million per year level of rehabilitation investment starting in Fiscal Year 2018 as outlined below.

The development of this Decade Plan continued the use of risk analysis techniques combined with an asset management strategy to determine where the Water Authority's capital resources should be expended in order to maximize the benefit to rate payers. The Water Authority's asset management plan is intended to provide a business model for managing infrastructure assets to minimize the total costs of owning and operating them at an acceptable level of risk. Ratepayers' investment in the infrastructure is maximized as a result. The adopted Decade Plan represented the funding decisions made by a broad array of staff and managers throughout the Water Authority. Project prioritization resulted from discussions within the Water Authority and with outside consultants engaged to assist the Water Authority in charting a path for its Basic Capital Program.

The Water Authority's asset management program is an extensive business model that helps utility managers make better acquisition, operations and maintenance, renewal, and replacement decisions. The principles of asset management were developed to address the critical problem of aging public infrastructure and changing utility business environment. In Fiscal Year 2011, the Water Authority completed a comprehensive Asset Management Plan ("AMP") used to provide a framework for understanding and planning of long-range asset renewal (rehabilitation and replacement) requirements. The AMP consolidates the Water Authority's asset information into a structured framework and uses it to provide a justifiable basis to support long-term organization, operations, and asset management decisions. In Fiscal Year 2012, the Water Authority began work on preparing a set of 10-year asset management plans for various asset classes (i.e., small diameter pipes, large diameter pipes, wastewater treatment plant, and groundwater and collection system facilities). The 10-year plans are generated to provide the Water Authority with a more accurate understanding of the short and intermediate-term renewal requirements. In Fiscal Year 2016, the Water Authority completed the planned 10-year asset management plans and will continue to improve on its asset management practices going forward.

The internal assessment of the condition of the Water Authority's infrastructure and future system needs as well as changes in the external environment in which the Water Authority operates will necessarily lead to changes in revenue allocation over time. The next Decade Plan, Fiscal Year 2018 – Fiscal Year 2027, that will be in place before the start of Fiscal Year 2018 can be expected to reflect some change in priorities from the current decade plan.

The Water Authority anticipates \$680 million in capital needs through Fiscal Year 2027.

	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>FY2021</u>	<u>FY2022</u>	<u>FY2023</u>	<u>FY2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Total</u>	<u>%</u>
Capital Needs	\$64,600	\$61,850	\$64,850	\$67,850	\$70,850	\$73,850	\$76,850	\$79,850	\$82,850	82,850	\$726,250	100%
Bond Proceeds	\$29,000	\$28,000	\$28,000	\$28,000	\$28,000	\$28,000	\$28,000	\$28,000	\$28,000	\$28,000	\$281,000	41%
Difference Funded with Cash	\$35,600	\$33,850	\$36,850	\$39,850	\$42,850	\$45,850	\$48,850	\$51,850	\$54,850	\$54,850	\$445,250	59%

These projections are subject to change.

Source: Albuquerque Bernalillo County Water Utility Authority.

The Basic growth program has shifted in focus from placing new pipe in the ground to achieving performance improvement goals and meeting mandated standards. The discretionary spending in the Fiscal Year 2018 growth program budget will continue initiatives in information technology support for the operating divisions. The remainder of the growth program is primarily non-discretionary and includes funding for the low-income connection program managed by the County and repayment to developers as connections are made to the System.

In addition to seeking improvements in efficiency and effectiveness through its AMP, the Water Authority continues to participate in the American Water Works Association's QualServe program. The QualServe program provides a framework for water and wastewater utilities to continually improve using a Plan-Do-Check-Act framework. It currently offers a well-developed toolbox of benchmarking, self-assessment and peer review for water and wastewater utilities. The QualServe program has assisted the Water Authority in identifying what it does well and areas where improvement is necessary. The Water Authority has used the information and recommendations gathered from the QualServe program to provide guidance in the one-year objectives, the performance plan and the financial plan. This information and recommendations have also been the basis for operational improvements already implemented in the Water Authority.

### *Approved Fiscal Year 2018 Budget*

The approved Fiscal Year 2018 budget is the Water Authority's financial plan for Fiscal Year 2018. The development of this financial plan has been guided by the Water Authority's Ten-year Financial Plan, Five-year Goals, One-year Objectives, Performance Plan and the Guiding Principles. In the development of the approved Budget, the Water Authority has taken a conservative financial approach to provide effective and efficient water and wastewater services balanced against projected resources, and is balanced, fiscally conservative and sound.

The utility's success can be measured in a number of different ways. One of these is recognition by industry peers and professional organizations. In Fiscal Year 2017 this recognition included:

- Platinum Award for Utility Excellence – Association of Metropolitan Water Agencies

- 2018 Source Water Protection Award – American Water Works Association (AWWA)
- Water Resources Utility of the Future Award.
- The National Association of Clean Water Agencies National Environmental Achievement Award for the Water Authority’s school outreach and conservation education program.
- Water Environment Federation Public Communication and Outreach Award.
- Partnership for Safe Water – Distribution System Operations Directors Award.
- American Advertising Association Gold Award for the 2016 popular annual financial report.
- The Government Finance Officers Association (“GFOA”) Distinguished Budget Presentation Award.
- GFOA Certificate of Achievement for Excellence in Financial Reporting (both Popular and Comprehensive).
- Recognition in the U.S. Water Alliance “Spotlight” for conservation and aquifer preservation efforts.

Other achievements in the preceding fiscal year include the debut of a new and improved online payment system; completion of a new large solar array to help power the utility’s surface water treatment plant; successful rehabilitation of a well that had been taken off-line because of high arsenic levels; and groundbreaking on a major sewer realignment project in Southwest Albuquerque to improve flows and odor control. Additionally, the extensive multi-year, \$250 million refurbishment of the Southside Water Reclamation Plant continued on schedule. Water Authority representatives were also elected to become part of the Executive Board of the Rio Grande Water Fund and were invited to participate in the Water Research Foundation Emerging Opportunities Program.

Looking forward, the Water Authority must continue to spend \$76 million (2010 dollars) per year in Capital Implementation Program (“CIP”) funding to cover the costs of routine replacement of aging pipes, pumps and other infrastructure as recommended in a recent asset management study commissioned by the Water Authority. The CIP infrastructure renewal budget is scheduled to increase by \$3 million per year, an effort that started in Fiscal Year 2015.

In the preparation of the Fiscal Year 2018 Budget, the Water Authority developed a maintenance of effort budget within the projected estimated revenues. Staffing levels have an increase of one net position in Fiscal Year 2018. There is a 1% increase in other employee benefits. General operating expenditures increased by \$1.4 million. The most significant expense of the Water Authority continues to be debt service payments which will comprise 32% of the total operating expense in Fiscal Year 2018.

The operational cornerstone of the Water 2120 is the San Juan-Chama Drinking Water Project (“DWP”), which will continue to have a major positive impact on the ground water resources in the Middle Rio Grande. After almost ten years of operation, the DWP – along with conservation and other resource management efforts – has resulted in rising aquifer levels throughout the service area as documented by the U.S. Geological Survey.

The DWP provided about 70% of all water distributed to Water Authority customers in calendar year 2017. The Water Authority's goal is to have the DWP supply 70-75% of all customer demand in the future. Flow conditions in the Rio Grande may limit the ability to fully realize this goal. At the end of calendar year 2017, the Water Authority still had more than two years of stored water available through the DWP.

In Fiscal Year 2018, the Health and Wellness Specialist will continue offering wellness challenges for individuals and departments in conjunction with the Solutions Group as part of our health insurance. At least two fitness challenges per quarter will be offered this year and will include nutrition, physical activity and weight loss tips as well as disease and injury prevention topics to employees. Staff will install outdoor gym equipment at the Southside Water Reclamation Plant.

The Fiscal Year 2018 Budget also includes nonrecurring funding for an employee incentive program. This program will reward employees for cost savings as a result of a decrease in work-related losses. Funding for this program is contingent on the Water Authority generating the same or a greater amount in savings. This incentive program has been an effective tool in the reduction of the Water Authority's Workers Compensation expense in the last three fiscal years.

Customer Service Division ("CSD") and Northwest Service Area ("NWSA") have been successfully integrated into one group that handles call center, treasury, billing, new service applications, field operations and meter maintenance functions. CSD, Field Division – *Distribution Section* and NWSA work together to implement the Clevest mobile workforce management system, which provides a bridge for Maximo (work order and asset management) and Customer Care & Billing in order to create operating procedures for a paperless, real-time work order system, where field activities are dispatched, updated and closed out on a mobile platform. In addition, Clevest is used to manage line spots and schedule and record the preventative maintenance activities on the meter change outs, box and valve replacement initiatives.

Revenue for Fiscal Year 2018 is estimated to be \$229.9 million representing an increase of \$12.9 million from the budgeted Fiscal Year 2017 amount. The Fiscal Year 2018 Budget shows a net increase of one new position. Three labor unions represent 500 of the 633 Water Authority employees.

For Fiscal Year 2018 revenues are expected to be \$7.0 million over proposed expenditures, which include funding the Rate Stabilization Fund. This amount is expected to bring the Working Capital or Fund Balance to \$11.8 million at June 30, 2018. The Water Authority continues to strive to achieve a Fund Balance to 1/12 of the annual budgeted operating expenditures. For Fiscal Year 2018, \$2 million will be added to the Rate Stabilization fund.

Also submitted in a separate resolution is the Capital Improvement Program (CIP) budget for Fiscal Year 2019. The appropriation for Fiscal Year 2019 for CIP is \$84.3 million. \$55.0 million is appropriated for the level one priority basic capital programs, an additional \$15 million appropriated for the covers for the large primary clarifiers at the Southside Water Reclamation

Plant, \$0.62 million for vehicles and heavy equipment, \$5.0 million for growth related projects, and \$8.3 million is appropriated for special projects. The \$8.3 million for special projects is comprised of \$2.0 million for the Automated Meter Infrastructure (AMI), \$1.0 million for steel water line replacement, \$400,000 for various renewable energy projects, and \$5.0 million for the Consolidated Customer Services and Field Operations Facility.

The Water Authority continues to participate in American Water Works Association's (AWWA) Benchmarking program which allows the utility to compare its performance against other utilities at least every two years. The Water Authority utilizes performance measures or indicators to help guide the operating and capital budgets in prioritizing and allocating the Water Authority's financial resources. The Water Authority also uses these measures to help improve its operational efficiency and effectiveness through the One-Year Objectives.

The Water Authority has established an asset management program with a steering committee to oversee the program. The program is an extensive, well thought out business model that helps utility managers make better acquisition, operations and maintenance, renewal, and replacement decisions. The principles of asset management were developed to address the critical problem of aging public infrastructure and changing utility business environment. In Fiscal Year 2011, the Water Authority completed a utility wide asset management plan (UWAMP) used to provide a rational framework for understanding and planning of long-range asset renewal, rehabilitation and replacement requirements. The UWAMP consolidates the Water Authority's asset information into a structured framework and uses it to provide a justifiable basis to support long-term organization, operations, and asset management decisions. The Water Authority has also completed several strategic ten-year asset management plans for various asset classes (i.e., small diameter pipes, large diameter pipes, wastewater treatment plant, groundwater, and collection system facilities). The ten-year plans are generated to provide the Water Authority with a more accurate understanding of the short and intermediate-term renewal requirements. In Fiscal Year 2019, the Water Authority will continue to improve on its asset management practices by upgrading its Maximo<sup>®</sup> Enterprise Asset Management System/Computerized Maintenance Management System (EAMS/CMMS) and integrating mobile work order technology to improve the accuracy of the asset data. The Water Authority will also be updating its Utility Wide Asset Management Plant (UWAMP).

The Fiscal Year 2019 Budget represents a financial plan that will provide the necessary funding to perform all the varied operational and administrative functions, to provide customers with quality water and wastewater service and address the Water Authority's priorities for Fiscal Year 2019 to improve services and gain operating efficiencies.

## **INVESTMENT POLICIES AND PROCEDURES**

The Water Authority's funds are invested by the Water Authority's Chief Financial Officer pursuant to the Water Authority's Investment Policy (the "Investment Policy"). According to the Investment Policy, all the investments should be made in accordance with the "Prudent Person" rule (all investments should be made with judgment and care, under circumstances then prevailing, which persons of prudence, discretion and intelligence exercise in the management of their own affairs, not for speculation, but for investment, considering the

probable safety of their capital as well as the probable income to be derived) and on the basis of competitive bids and/or offers. The liquidity goal is achieved by matching investment maturities with the expected timing of obligations. Attainment of a market return is measured by benchmarking the portfolio against a relevant market index. Finally, diversification (safety) is accomplished through implementation of a strategic asset allocation, derived from modern portfolio theory concepts.

The Investment Policy seeks to balance four primary objectives:

- Maximize investment returns while minimizing risk;
- Maintain a level of liquidity to ensure that unanticipated cash needs are met;
- Allow for diversification of the Water Authority's portfolio; and
- Recognize the impact of the Water Authority's investment program on the local economy.

The Investment Policy permits the Water Authority to invest in (a) U.S. Treasury obligations; (b) U.S. Government agency and instrumentality obligations; (c) bonds or negotiable securities of the State of New Mexico or of any county, municipality, or school district within the State which has a taxable valuation of real property for the last preceding year of at least one million dollars (\$1,000,000) and which has neither defaulted in the payment of any interest or sinking fund obligation, nor failed to meet any bonds at maturity at any time within five years last preceding; (d) time deposits in banks and savings and loan associations; (e) interest bearing checking accounts in banks and savings and loan associations; (f) passbook savings accounts; (g) banker's acceptances; (h) SEC2a-7 money market funds whose portfolios consist of the foregoing securities; and (i) the Local Government Investment Pool pursuant to Section 6-10-10.1 NMSA 1978.

## **OTHER POST-EMPLOYMENT BENEFITS**

### **Public Employees Retirement Association**

The Water Authority participates in a pension plan organized on a statewide basis and operated by the State of New Mexico. The Public Employees' Retirement Association of New Mexico ("PERA"), established by Section 10-11-1 *et seq.* NMSA 1978, as amended, requires contributions to its plan (the "Plan"), computed as a percentage of salary, from both employee and employer for all full time employees. The majority of State and municipal employees in New Mexico participate in the Plan. The Water Authority's liability under the Plan is limited to the periodic employer contributions that it is required to make for its participating employees. The Water Authority has no unfunded liabilities with respect to the availability of funds to cover the obligations of the retirement plan. However, on June 25, 2012, the Governmental Accounting Standards Board approved Statement No. 68 which requires governments providing defined benefit pensions to recognize their long-term obligation for pension benefits as a liability for the first time, and to more comprehensively and comparably measure the annual costs of pension benefits. Statement No. 68 requires cost-sharing employers, such as the Water Authority, to

record a liability and expense equal to their proportionate share of the collective net pension liability and expense for the cost-sharing plan. As of June 30, 2017, the Water Authority reported a net pension liability of \$59,008,103 for its proportionate share of the net pension liability. See “Detailed Notes (E) – Defined Benefit Pension Plan – Public Employees Retirement Association”, Appendix A - Annual Financial Report Year ended June 30, 2017.

As required by State law, eligible employees are required to contribute between 7.74% and 18.15% of their gross salary, depending on the specific plan type. The Water Authority is required to contribute 9.15% of the gross covered salary. The Water Authority has elected to pay a percentage of the employee’s contributions. The contribution requirements of plan members and the Water Authority are established in State statute under Chapter 10, Article 11, NMSA 1978. The requirements may be amended by acts of the State Legislature. The Water Authority’s employer contribution to PERA for the fiscal years ended June 30, 2017, 2016 and 2015 were \$3,129,931, \$3,020,667 and \$2,959,288, respectively, which equal the amount of the required contributions for each fiscal year. The Water Authority’s total paid contributions for fiscal year ended June 30, 2017 were \$3,477,339.

PERA issues a publicly available financial report that includes financial statements and additional information. A copy of this report can be obtained from PERA at [www.pera.state.nm.us](http://www.pera.state.nm.us).

Actuarial information is shown below:

**State of New Mexico Public Employees Retirement Fund  
Summary Information as of June 30, 2017 (in thousands)**

Membership <sup>(1)</sup>	103,130
Actuarial Information	
Accrued Liability <sup>(2)</sup>	\$20,194,698
Actuarial Value of Assets <sup>(3)</sup>	\$15,124,167
Unfunded Actuarial Accrued Liability (“UAAL”)	\$5,070,530

(1) Includes both state and municipal divisions.

(2) Includes accrued liability of both the retired and active members.

(3) The valuation of assets is based on an actuarial value of assets whereby gains and losses relative to a 7.25% annual return for the first 10 years and 7.75% thereafter. Annual returns are smoothed in over a four-year period.

As of June 30, 2017, PERA has an amortization or funding period of 55 years, based on the employer and member contribution rates in effect as of July 1, 2017. Member and employer rates are established pursuant to Section 10-11-1 through 10-11-142 NMSA 1978. The funded ratio (ratio of the actuarial value of assets to accrued actuarial liability) was 74.9% as of June 30, 2017 and the UAAL of the PERA Fund increased \$251 million to approximately \$5.1 billion. The State’s portion of the UAAL of the PERA Fund is 53.1%, or \$2.7 billion. On a market value basis, PERA’s funded ratio is approximately 73.1% as of June 30, 2017. Current 30-year projections indicate the PERA Fund will be 87.3% funded in 2043.

## **Defined Contribution Retirement Plan**

The Water Authority approved a Declaration of Trust for a 401 qualified defined contribution retirement plan through ICMA Retirement Corporation for Water Authority employees in 2004. Under this defined contribution plan, an employee's eventual retirement benefit is based upon the total contributions made by the employee and employer, plus investment earnings on those contributions. The plan meets the requirements of Section 401(a) of the Internal Revenue Code. Employees have a 30-day election period from the date of initial eligibility to elect to participate in the plan. Participation is not mandatory and only a small number of Water Authority employees participate in the plan. Under the plan the employer contributes 19.01% of earnings for full time employees and 7% for part time employees. A mandatory employee participation contribution is required with employees to make a one-time election to contribute a specified percentage of the employee's salary. Total Water Authority contributions to the plan were \$271,617 in fiscal year 2017.

## **New Mexico Retiree Health Care Authority**

Water Authority employees also participate in the State-sponsored New Mexico Retiree Health Care Authority (the "NMRHCA"). The NMRHCA administers the New Mexico Retiree Health Care Act, Sections 10-7C-1 through 10-7C-19 NMSA 1978, for the purpose of providing comprehensive group health insurance coverage for persons who have retired from certain public service in the State and eligible dependents. The purpose of the Retiree Health Care Act is to provide eligible retirees, their spouses, dependents, and surviving spouses and dependents with health insurance consisting of a plan, or optional plans, of benefits that can be purchased by funds deposited by the employer into the Retiree Health Care Fund (the "RHCF") and by co-payments or out-of-pocket payments of eligible retirees. Each participating retiree pays a monthly premium according to a service-based subsidy rate schedule for the medical plus life plan plus an additional participation fee of five dollars if the eligible participant retired prior to the employer's Retiree Health Care Act effective date. The Retiree Health Care Act provides that the benefits offered to retired public employees may be modified, diminished or extinguished by the Legislature, and that the act does not create any contract, trust or other rights in public employees to health care benefits. The Water Authority's contributions (employer and employee) to the NMRHCA for the fiscal years ended June 30, 2017, 2016 and 2015 were \$983,240, \$948,912 and \$931,393, respectively, which equal the required contributions for each year.

The NMRHCA issues a publicly available stand-alone financial report that includes financial statements and required supplementary information for the post-employment healthcare plan. That report and further information can be obtained by writing to the Retiree Healthcare Authority at 4308 Carlisle Blvd. NE, Suite 104, Albuquerque, New Mexico 87107 or at [nmrhca.org/financial-documents.aspx](http://nmrhca.org/financial-documents.aspx).



## **Life Insurance Benefits**

The Water Authority, as of the fiscal year ended June 30, 2017, participated in the City of Albuquerque's Life Insurance Benefit Plan (the "City Plan"). The City Plan is a single employer defined benefit plan administered by the City which includes coverage for the employees of the Water Authority. Upon retirement, an eligible Water Authority employee will continue to be covered by the City Plan at no cost to the employee. Employees who were hired before July 1, 2013 and retire on or after December 31, 2013 from the Water Authority will receive an employer paid life insurance premium in the amount of \$5,000. Retirees prior to January 1, 2014 will receive the original insurance coverage up to \$25,000. New employees hired after July 1, 2013 will no longer be offered employer paid life insurance in any amount after they retire. The number of Water Authority retired employees covered under the City Plan at June 30, 2017 was 177. The number of active employees at June 30, 2017 was 498.

In fiscal year 2014, the City and the Water Authority created the City of Albuquerque Pooled Post-Employment Benefit Trust Fund. Prior to July 1, 2013, the City and the Water Authority had been contributing only the amount required to pay retiree life insurance premiums each year. The City has set the contribution rate each year based on an actuarial valuation. The contributions are expected to match or exceed the annual required contribution ("ARC") calculated in the actuarial study in accordance with the parameters of GASB 45. The ARC represents a level of funding that, if paid on an ongoing basis, is projected to cover normal cost each year and amortize unfunded actuarial liabilities of the plan for the remainder of the 30 year closed period. Total contributions made for the fiscal year ended June 30, 2017 equaled the annual required contribution. The Water Authority's contributions to the trust for the fiscal year ended June 30, 2017 were \$43,046.

## **TAX MATTERS**

### **General**

In the opinion of Modrall, Sperling, Roehl, Harris & Sisk, P.A., Bond Counsel, to be delivered at the time of original issuance of the Bonds, under existing laws, regulations rulings and judicial decisions, and assuming compliance with covenants described herein, interest on the Bonds is excludable from gross income for federal income tax purposes and is not an item of tax preference for purposes of the federal alternative minimum tax imposed on individuals. Bond Counsel is also of the opinion, based on existing laws of the State of New Mexico as enacted and construed, that interest on the Bonds is excludable from net income for present State of New Mexico income tax purposes.

The Internal Revenue Code of 1986, as amended (the "Code"), imposes various restrictions, conditions and requirements relating to the exclusion from gross income for federal tax purposes of interest on obligations such as the Bonds. The City has made various representations and warranties with respect to, and has covenanted in the Bond Ordinance and other documents, instruments and certificates to comply with the applicable provisions of the Code to assure that interest on the Bonds will not become includible in gross income. Failure to comply with these covenants or the inaccuracy of these representations and warranties may result

in interest on the Bonds being included in gross income from the date of issue of the Bonds. The opinion of Bond Counsel assumes compliance with the covenants and the accuracy of such representations and warranties.

Although Bond Counsel has rendered an opinion that interest on the Bonds is excludable from gross income for federal income tax purposes, the accrual or receipt of interest on the Bonds may otherwise affect the federal income tax liability of the recipient. The extent of these other tax consequences will depend upon the recipient's particular tax status or other items of income or deduction. Bond Counsel expresses no opinion regarding any such consequences. Before purchasing any of the Bonds, potential purchasers should consult their tax advisors as to the tax consequences of purchasing or owning the Bonds.

The opinions expressed by Bond Counsel are based upon existing law as of the date of issuance and delivery of the Bonds, and Bond Counsel expresses no opinion as of any date subsequent thereto or with respect to any pending legislation.

From time to time, there are legislative proposals in Congress that, if enacted, could alter or amend the federal tax matters referred to above or adversely affect the market value of the Bonds. It cannot be predicted whether or in what form any such proposal might be enacted or whether if enacted, it would apply to Bonds issued prior to enactment. Each purchaser of the Bonds should consult his or her own tax advisor regarding any pending or proposed federal tax legislation. Bond Counsel expresses no opinion regarding any pending or proposed federal tax legislation.

### **Internal Revenue Service Audit Program**

The Internal Revenue Service (the "Service") has an ongoing program auditing tax-exempt obligations to determine whether, in the view of the Service, interest on such tax-exempt obligations is includable in the gross income of the owners thereof for federal income tax purposes. No assurances can be given as to whether the Service will commence an audit of the Bonds. If an audit is commenced, under current procedures the Service will treat the Water Authority as the taxpayer and the Bond owners may have no right to participate in such procedure. Neither the Municipal Advisor nor Bond Counsel is obligated to defend the tax-exempt status of the Bonds. The Water Authority has covenanted in the Bond Ordinance not to take any action that would cause the interest on the Bonds to become includable in gross income except to the extent described above for the owners thereof for federal income tax purposes. None of the Water Authority, the Municipal Advisor nor Bond Counsel is responsible to pay or reimburse the costs of any Bond owner with respect to any audit or litigation relating to the Bonds.

### **Original Issue Discount**

The Bonds may be offered at a discount ("original issue discount") equal generally to the difference between public offering price and principal amount. For federal income tax purposes, original issue discount on a bond accrues periodically over the term of the bond as interest. The amount of original issue discount deemed received by the holder is excludable from gross

income of the holder for federal income tax purposes and is not an item of tax preference for purposes of the federal alternative minimum tax imposed on individuals. The accrual of original issue discount increases the holder's tax basis in the bond for determining taxable gain or loss from sale or from redemption prior to maturity. Holders of Bonds offered at an original issue discount should consult their tax advisors for an explanation of the accrual rules.

### **Original Issue Premium**

The Bonds may be offered at a premium ("original issue premium") over their principal amount. For federal income tax purposes, original issue premium is amortizable periodically over the term of a bond through reductions in the holders' tax basis in the bond for determining taxable gain or loss from sale or from redemption prior to maturity. Amortizable premium is accounted for as reducing the tax-exempt interest on the bond rather than creating a deductible expense or loss. Holders of Bonds offered at an original issue premium should consult their tax advisors for an explanation of the amortization rules.

## **LEGAL MATTERS**

In connection with the issuance and sale of the Series 2018 Bonds, Modrall, Sperling, Roehl, Harris & Sisk, P.A., as Bond Counsel, will deliver the bond opinion included in Appendix D hereto. Certain legal matters relating to the Series 2018 Bonds will be passed upon for the Water Authority by its Disclosure Counsel, Modrall, Sperling, Roehl, Harris & Sisk, P.A. Certain legal matters will also be passed upon for the Water Authority by Stelzner, Winter, Warburton, Flores, Sanchez & Dawes, P.A., Contract Counsel to the Authority. Certain legal matters will be passed upon for the Underwriters by Norton Rose Fulbright US LLP.

## **INDEPENDENT ACCOUNTANTS**

REDW LLC audited the financial statements of the Water Authority as of and for the year ended June 30, 2017 and delivered their report to the New Mexico State Auditor and the Water Authority. The complete Comprehensive Annual Financial Report of the Albuquerque Bernalillo County Water Utility Authority – Audited General Purpose Financial Statements – as of and for the Fiscal Year ended June 30, 2017 is a public document and is available from the New Mexico State Auditor and on the Water Authority website at <http://www.abcwua.org>. An excerpt from the 2017 audit is included in Appendix A to this Official Statement. REDW LLC has not been engaged to perform, and has not performed since June 30, 2017, any procedures on the financial statements shown in the excerpt. Further, REDW LLC has not been engaged to perform and has not performed any procedures relating to financial information or any other information contained in this Official Statement.

## **CONTINUING DISCLOSURE UNDERTAKING**

In connection with the issuance of the Series 2018 Bonds, the Water Authority will execute a Continuing Disclosure Undertaking, a form of which is attached as Appendix E hereto, wherein it will agree for the benefit of the Owners of the Series 2018 Bonds (i) to provide certain annual financial information and operating data relating to the Water Authority by not later than

270 days after the end of each Fiscal Year, commencing with the Fiscal Year ended June 30, 2017, and (ii) to provide timely notice of certain enumerated events.

Historically, the Water Authority has timely filed annual financial information and audited financial statements consistent with the terms of the Water Authority's outstanding Continuing Disclosure Undertakings and is in material compliance with these Undertakings. However, at the time the Water Authority filed annual financial information in March 2014 related to Fiscal Year 2013, the audited financial statement for such fiscal year was not complete and the Water Authority chose not to provide unaudited financial information. Prior to Fiscal Year 2014, the Water Authority's audited financial statements were interconnected with the City's financial system which had experienced problems and resultant delays. These delays resulted in the Water Authority having incomplete and unreliable financial information at the time the Water Authority was required to file such annual financial information. To avoid providing investors with unreliable information, the Water Authority waited until the respective audited financial statements were available and timely filed them with the Municipal Securities Rulemaking Board's Electronic Municipal Market Access System. The Water Authority's audited financial statements are no longer contingent on, or interconnected with, the completion of the City's audited financial statements and the Water Authority does not anticipate any problems with the timely completion of its audited financial statements or providing reliable unaudited financial information as necessary.

## **LITIGATION**

At the time of the initial delivery of the Bonds, the Water Authority will deliver a no-litigation certificate to the effect that no litigation or administrative action or proceeding is pending or, to the knowledge of the appropriate Water Authority officials, threatened, restraining or enjoining, or seeking to restrain or enjoin, the issuance and delivery of the Bonds, the effectiveness of the Bond Ordinance, or contesting or questioning the proceedings and authority under which the Bonds have been authorized and are to be issued, sold, executed or delivered, or the validity of the Bonds.

## **RATINGS**

It is expected that, upon issuance of the Series 2018 Bonds, the Series 2018 Bonds will receive a senior lien rating of "\_\_\_" from Moody's Investors Service, Inc. and "\_\_\_" from S&P Global Ratings. The ratings reflect only the respective views of the Rating Agencies, and the Water Authority makes no representation as to the appropriateness or meaning of any rating. An explanation of the significance of the ratings may be obtained from the respective Rating Agency. The Water Authority has furnished to each Rating Agency certain information and materials relating to the Series 2018 Bonds, the Water Authority and the System, some of which may not have been included in this Official Statement. Generally, Rating Agencies base their ratings on such information and materials and on investigation, studies and assumptions by the Rating Agencies. The respective ratings are not a recommendation to buy, sell or hold the Series 2018 Bonds, and there can be no assurance that a rating when assigned will continue for any given period of time or that it will not be lowered or withdrawn entirely by the respective Rating Agency if, in its judgment, circumstances so warrant. Any downward change in or withdrawal of

a rating or ratings may have an adverse effect on the marketability and/or market price of the Series 2018 Bonds. The Water Authority has undertaken no responsibility to ensure the maintenance of the ratings or to oppose any revisions or withdrawals.

## **UNDERWRITING**

The Underwriters have agreed, subject to certain conditions, to purchase the Series 2018 Bonds from the Water Authority pursuant to a Bond Purchase Agreement (the "Bond Purchase Agreement") at a price of \$\_\_\_\_\_ (being the par amount of the Series 2018 Bonds, plus a net reoffering premium of \$\_\_\_\_\_ and less an Underwriters' discount of \$\_\_\_\_\_). The Bond Purchase Agreement provides that the Underwriters will purchase all of the Series 2018 Bonds if any are purchased. The prices at which the Series 2018 Bonds are offered to the public (and the yields resulting therefrom) may vary from the initial public offering prices appearing on the inside cover page of this Official Statement. In addition, the Underwriters may allow commissions or discounts from such initial prices to dealers and others.

J.P. Morgan Securities LLC ("J.P. Morgan"), one of the Underwriters of the Series 2018 Bonds, has entered into negotiated dealer agreements (each, a "Dealer Agreement") with each of Charles Schwab & Co., Inc. ("CS&Co.") and LPL Financial LLC ("LPL") for the retail distribution of certain securities offerings at the original issue prices. Pursuant to each Dealer Agreement, each of CS&Co. and LPL may purchase Series 2018 Bonds from J.P. Morgan at the original issue price less a negotiated portion of the selling concession applicable to any Series 2018 Bonds that such firm sells.

## **ADDITIONAL INFORMATION**

All quotations from, and summaries and explanations of the laws, regulations and documents contained herein do not purport to be complete and reference is made to such laws, regulations and documents for full and complete statements of their provisions. Copies, in reasonable quantity, of such laws, regulations and documents, including the Water Authority's most recent Annual Information Statement, dated March 30, 2018, may be obtained upon request to the Water Authority at One Civic Plaza, N.W., Room 5012, Albuquerque, New Mexico 87102, Attention: Office Coordinator.

Any statements in this Official Statement involving matters of opinion, whether or not expressly so stated, are intended as such and not as representations of fact. This Official Statement is not to be construed as a contract or agreement between the Water Authority and the purchasers or holders of any of the Series 2018 Bonds.

**APPROVAL BY THE WATER AUTHORITY**

This Official Statement has been duly authorized and approved by the Water Authority and has been executed and delivered by the Chair of the Board on behalf of the Water Authority.

**ALBUQUERQUE BERNALILLO COUNTY  
WATER UTILITY AUTHORITY**

By: \_\_\_\_\_  
Chair

**APPENDIX A**

**EXCERPT FROM THE AUDITED FINANCIAL REPORT OF THE  
ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY  
FOR THE FISCAL YEAR ENDED JUNE 30, 2017**

## **APPENDIX B**

### **BERNALILLO COUNTY ECONOMIC AND DEMOGRAPHIC INFORMATION**

#### **General**

The economic and population hub of New Mexico, Bernalillo County is located in the north central region of the State at the crossroads of Interstate Highways 25 and 40. Its boundaries encompass the entire City of Albuquerque, which comprises 83% of the County's population. With 678,968 residents (2017 estimated), Bernalillo County ranks 92<sup>th</sup> in population of the nation's 3,143 counties. The County comprises nearly 32% of New Mexico's population total and 75% of the four county Albuquerque Metropolitan Statistical Area, and is home to the University of New Mexico, Kirtland Air Force Base and Sandia National Laboratories. The County accounts for nearly half of all economic activity in New Mexico. Its success can be attributed to a diverse economic base consisting of government, services, trade, agriculture, tourism, manufacturing, and research and development.

Because of its accessibility and tourist facilities, the County and the surrounding area is the gateway for tourism in New Mexico as well as an attraction in its own right. The County and the City of Albuquerque features the historic "Old Town", the Sandia Peak Tramway and ski area, a number of nationally recognized museums and the Cibola National Forest. Other attractions include the Albuquerque International Balloon Fiesta, the National Hispanic Cultural Center, the Gathering of Nations Native American event, and the New Mexico State Fair. There are several Indian pueblos within easy driving distance that draw many tourists because of their historical and cultural significance and arts.



## Population

The Albuquerque Metropolitan Statistical Area ("MSA") includes Bernalillo, Sandoval, Torrance and Valencia Counties. The Census added Torrance County to the MSA in the 2000 Census.

### POPULATION

<b>Year</b>	<b>Bernalillo County</b>	<b>Albuquerque MSA</b>	<b>State</b>
1960	262,199	292,500 <sup>(1)</sup>	951,023
1970	315,774	373,812 <sup>(1)</sup>	1,017,055
1980	419,700	515,776 <sup>(1)</sup>	1,303,303
1990	480,577	589,131	1,515,069
2000 <sup>(2)</sup>	555,949	729,648	1,819,046
2010 <sup>(3)</sup>	662,564	887,077	2,059,179
2018 <sup>(4)</sup>	682,330	914,476	2,081,363
2023 <sup>(4)</sup>	691,883	928,921	2,101,278

<sup>(1)</sup> Because Valencia County was split into two counties in 1981, official data is not available prior to that year for the Albuquerque MSA. Figures shown represent estimates by the University of New Mexico Bureau of Business and Economic Research.

<sup>(2)</sup> 2000 decennial census U.S. Dept. of Commerce, Bureau of the Census. The Census in 2000 expanded the Albuquerque MSA to include Torrance County, population of 16,911.

<sup>(3)</sup> 2010 decennial census U.S. Dept. of Commerce, Bureau of the Census.

<sup>(4)</sup> Estimates, Source: Spotlight, 2018

Source: U.S. Dept. of Commerce, Bureau of the Census, except as indicated in footnotes.

## Age Distribution

The following table sets forth a comparative age distribution profile for the County, the State and the United States.

### POPULATION BY AGE GROUP

<b>Age</b>	<b>Albuquerque MSA</b>	<b>State</b>	<b>U.S.</b>
0-17	22.70%	23.90%	22.80%
18-24	9.06%	9.80%	9.80%
25-34	13.93%	13.30%	13.40%
35-44	12.75%	11.87%	12.60%
45-54	12.30%	11.90%	13.10%
55 and Older	29.26%	29.23%	28.30%

Source: Spotlight, 2018

## Per Capita Income

The following table sets forth annual per capita personal income levels for the Albuquerque MSA, the State and the United States. The Bureau of Economic Analysis defines “earnings” to include wages and salaries, proprietor’s income and other labor income (such as bonuses).

### PER CAPITA PERSONAL INCOME

<b>Calendar Year</b>	<b>Albuquerque MSA</b>	<b>New Mexico</b>	<b>United States</b>
2007	\$33,717	\$31,703	\$39,821
2008	35,195	33,447	41,082
2009	34,218	32,523	39,376
2010	34,097	33,109	40,277
2011	35,547	34,729	42,453
2012	35,678	35,410	44,267
2013	35,006	34,724	44,462
2014	36,944	36,656	46,414
2015	38,563	37,938	48,112
2016	n/a	38,796	49,681

Source: Bureau of Economic Analysis, U.S. Department of Commerce.

The following table reflects the Percent of Households by Effective Buying Income Groups (“EBI”). EBI is defined as money income less personal tax and non-tax payments described below. Money income is the aggregate of wages and salaries, net farm and nonfarm

self-employment income, interest, dividends, net rental and royalty income, Social Security and railroad retirement income, other retirement and disability income, public assistance income, unemployment compensation, Veterans Administration payments, alimony and child support, military family allotments, net winnings from gambling, and other periodic income. Deducted from this total money income are personal income taxes, personal contributions to social insurance (Social Security and federal retirement payroll deductions), and taxes on owner-occupied non-business real estate. Receipts from the following sources are not included as money income: money received from the sale of property; the value of “in kind” income such as food stamps, public housing subsidies, and employer contributions for persons; withdrawal of bank deposits; money borrowed; tax refunds; exchange of money between relatives living in the same household; gifts and lump-sum inheritances, insurance payments, and other types of lump-sum receipts.

**PERCENT OF HOUSEHOLDS BY  
EFFECTIVE BUYING INCOME GROUPS**

<b>Effective Buying Income Group</b>	<b>Albuquerque MSA</b>	<b>New Mexico</b>	<b>United States</b>
Under \$25,000	24.89%	27.27%	20.37%
\$25,000 - \$34,999	10.07%	10.65%	9.21%
\$35,000 - \$49,999	13.28%	13.71%	12.87%
\$50,000 - \$74,999	17.71%	16.84%	17.09%
Over \$75,000	34.05%	31.51%	40.46%
2014 Est. Median Household Income	\$44,391	\$44,292	\$51,579
2015 Est. Median Household Income	\$48,234	\$45,633	\$53,706
2016 Est. Median Household Income	\$48,792	\$45,455	\$55,551
2017 Est. Median Household Income	\$50,160	\$47,043	\$57,462
2018 Est. Median Household Income	\$52,172	\$48,044	\$60,133

Source: Spotlight, 2018

## BUILDING PERMITS ISSUED IN THE CITY OF ALBUQUERQUE

Fiscal Year	Single Family		Multi-Family		Commercial		Public		Additions & Alterations	Total Permits
	Permits	\$ Value	Units	\$ Value	Permits	\$ Value	Permits	\$ Value	\$ Value	\$ Value
2008	1,214	\$222,075,316	638	\$45,836,909	124	\$220,788,429	10	\$79,282,230	\$225,299,537	\$793,282,421
2009	436	77,223,886	198	18,549,849	81	103,040,438	20	58,529,283	233,224,405	490,567,861
2010	876	140,369,408	168	14,763,081	34	26,197,123	8	18,076,792	209,624,603	409,031,007
2011	725	120,749,010	278	37,022,789	45	65,940,484	1	3,300,300	165,845,129	392,857,712
2012	846	153,465,589	350	32,509,563	36	46,257,090	4	31,907,654	165,883,476	430,023,373
2013	923	170,470,736	945	73,378,214	63	78,523,292	4	5,545,791	226,949,710	554,867,742
2014	841	163,980,975	898	81,296,532	152	103,214,914	7	16,859,014	198,430,162	563,781,597
2015	871	167,352,011	449	39,390,742	112	116,776,561	10	17,257,410	165,159,484	505,936,208
2016	915	184,770,209	567	43,676,768	88	119,913,663	13	27,886,373	230,591,376	606,838,389
2017	971	183,587,235	984	60,907,961	132	242,802,744	9	25,894,927	298,194,709	811,387,576
Growth 2016 to 2017	6.1%	-0.6%	73.5%	39.5%	50.0%	102.5%	-30.8%	-7.1%	29.3%	33.7%

### Below

Total Housing Units in the City of Albuquerque	Total Units	Single Family	Multi-Family	Mobile Homes & Others
As of 1990 Census	166,870	101,780	55,931	9,159
1990-2000 Housing Units Added	31,844	24,863	7,354	(373)
As of 2000 Census	198,714	126,643	63,285	8,786
2000-2010 Housing Units Added	40,452	35,858	3,554	1,040
As of 2010 Census	239,166	162,501	66,839	9,826
2011-2016 Housing Units Added (permitted)	9,592	5,121	4,471	N/A
Estimated Units as of July 2016	248,758	167,622	71,310	9,826

Sources: City of Albuquerque Planning Department; Census Bureau, U.S. Department of Commerce.

## Employment

Employment in the Albuquerque area in the period from Fiscal Year 2008 to Fiscal Year 2017 declined at an average of 0.2% a year. From Fiscal Year 2008 to Fiscal Year 2012 approximately 27,700 jobs were lost. In the following five fiscal years (2013 through 2017) the economy added just over 19,000 jobs. While Albuquerque is now recovering from the recession, the recovery has been slower than the nation as a whole. Employment in the nation reached its pre-recession peak in June 2014, while Albuquerque is still about 8,500 jobs short of its pre-recession peak.

The information on non-agricultural employment for the State and the Albuquerque MSA reported in the following table represents estimates by the New Mexico Department of Workforce Solutions and U.S. Bureau of Labor statistics.

### NON-AGRICULTURAL EMPLOYMENT (000s)

<b>Fiscal Year</b>	<b><u>ALBUQUERQUE MSA</u></b>		<b><u>NEW MEXICO</u></b>		<b><u>UNITED STATES</u></b>	
	<b><u>Employment</u></b>	<b><u>% Chg.</u></b>	<b><u>Employment</u></b>	<b><u>% Chg.</u></b>	<b><u>Employment</u></b>	<b><u>% Chg.</u></b>
2008	397.9	0.4%	847.4	1.1%	138,151	0.6%
2009	389.0	(2.3)	831.8	(1.8)	134,374	(2.7)
2010	375.7	(3.4)	805.4	(3.2)	130,173	(3.1)
2011	373.2	(0.6)	802.5	(0.4)	131,002	0.6
2012	370.2	(0.8)	801.6	0.1	133,093	1.6
2013	373.2	0.8	808.7	0.9	135,212	1.6
2014	375.3	0.6	813.3	0.6	137,563	1.7
2015	378.5	0.9	824.3	1.3	140,430	2.1
2016	383.0	1.2	827.2	0.4	143,134	1.9
2017	389.5	1.7	834.1	0.8	145,433	1.6

Sources: Albuquerque MSA and New Mexico data based on figures from the New Mexico Department of Workforce Solutions; U.S. data from the U.S. Department of Labor.

## CIVILIAN EMPLOYMENT/UNEMPLOYMENT RATES

Fiscal Year	Civilian Labor Force	Number Employed	Unemployment Rates		
			Albuquerque MSA	New Mexico	United States
2007	403,694	388,349	3.8%	3.9%	4.5%
2008	405,568	389,723	3.9	3.9	5.0
2009	407,287	381,530	6.3	6.2	7.6
2010	413,684	380,616	8.0	8.1	9.8
2011	423,100	390,421	7.7	7.7	9.3
2012	419,028	387,812	7.4	7.4	8.5
2013	417,158	388,285	6.9	6.9	7.8
2014	414,365	386,289	6.8	6.9	6.8
2015	415,144	388,916	6.3	6.5	5.7
2016	418,630	393,173	6.1	6.6	5.0
2017	425,362	399,443	6.1	6.7	4.7

Sources: New Mexico Department of Workforce Solutions and United States Department of Labor.

The following table lists the major employers in the Albuquerque area and their estimated number of full-time and part-time employees for 2015.

### MAJOR EMPLOYERS IN THE ALBUQUERQUE AREA By Number of Employees – 2017

Organization	Employees	Description
Albuquerque Public Schools	14,810	Educational
Kirtland Air Force Base (Civilian)	10,125	Air Force Material Command
Sandia National Labs	9,852	Research Development
Presbyterian	7,310	Healthcare
UNM Hospital	6,021	Healthcare
City of Albuquerque	5,500	Government
State of New Mexico	4,950	Government
University of New Mexico	4,210	Education
Lovelace Health Systems	4,000	Healthcare
Bernalillo County	2,648	Government
Rio Rancho Public Schools	2,000	Education
Sandia Resort and Casino	2,000	Resort and Casino
Central NM Community College	1,840	Education
T-Mobile	1,750	Telecommunications

Source: Albuquerque Economic Development, Data as of January 1, 2018.

## **APPENDIX C**

### **DESCRIPTION OF BOND ORDINANCE**

The following statements are summaries and excerpts, supplementing the information in the body of the Official Statement, of certain provisions of the Bond Ordinance which authorized the issuance of the Series 2018 Bonds. These summaries and excerpts do not purport to be complete and reference is made to the Ordinance for a full and complete statement of such provisions. See "ADDITIONAL INFORMATION."

#### **Definitions**

As used in the Bond Ordinance, the following terms have the meanings specified, unless the context clearly requires otherwise:

**ACQUISITION FUND.** The fund previously established by the Water Authority and continued in the Bond Ordinance.

**ACT.** Section 72-1-10 NMSA 1978, Sections 3-31-1 to 3-31-12 NMSA 1978, Sections 4-61-1 to 4-61-10 NMSA 1978, Sections 6-18-1 through 6-18-16 NMSA 1978, and enactments of the Board relating to the Bond Legislation.

**AUTHENTICATING AGENT.** The Registrar or any trust company, national or state banking association or financial institution qualified to act and appointed as the authenticating agent for the Bonds by an Authorized Officer from time to time.

**AUTHORIZED DENOMINATIONS.** Denominations of \$5,000 or integral multiples of \$5,000.

**AUTHORIZED OFFICER.** The Chair, the Executive Director, or other officer or employee of the Water Authority when designated by a certificate signed by the Chair from time to time.

**BASIC CAPITAL PROGRAM.** The Water Authority's basic capital program for funding annual capital needs for regular system improvements, expansion, maintenance and upgrades to operate a water and wastewater utility.

**BENEFICIAL OWNERS.** Beneficial Owners as defined in Section 7 (C).

**BOARD.** The governing body in which is vested the legislative power of the Water Authority.

**BOND, BONDS OR SERIES 2018 BONDS.** The Albuquerque Bernalillo County Water Utility Authority Senior Lien Joint Water and Sewer System Improvement Revenue Bonds, Series 2018 issued pursuant to the Bond Legislation.

**BOND COUNSEL.** An attorney at law or a firm of attorneys, designated by the Water Authority, of nationally recognized standing in matters pertaining to the issuance of bonds issued by states and their political subdivisions.

**BOND INSURANCE POLICY.** A municipal bond insurance policy issued by a Credit Source insuring the payment when due of the principal of and interest on Insured Obligations.

**BOND LEGISLATION.** Collectively, the Bond Ordinance, the Confirming Resolution and the Sale Certificate.

**BOND ORDINANCE.** The Ordinance, as amended or supplemented from time to time.

**BOND PURCHASE AGREEMENT.** The Bond Purchase Agreement between the Water Authority and the Purchaser of the Bonds to be approved with the adoption of the Pricing Resolution.

**BUSINESS DAY.** Any day during which any Credit Source, the Paying Agent or the Registrar, the offices of the Water Authority and the New York Stock Exchange are all open for business during normal business hours.

**CHAIR.** The duly elected Chair of the Board or the Vice Chair of the Board acting in the absence of the Chair.

**CITY.** The City of Albuquerque, in the County of Bernalillo and State of New Mexico.

**CLOSING DATE.** The date of delivery of the Bonds to the Purchaser or its designee.

**CODE.** The Internal Revenue Code of 1986, as amended, the federal income tax regulations of the Treasury Department (whether proposed, temporary or final) and any amendments of, or successor provisions to, the foregoing and any official rulings, announcements, notices, procedures and judicial determinations regarding any of the foregoing, all as and to the extent applicable. Unless otherwise indicated, reference to a Section of the Code in this Bond Ordinance means that Section of the Code and such applicable regulations, rulings, announcements, notices, procedures and determinations pertinent to that Section.

**COMPLETION DATE.** The date of completion of the Project, or, for purposes of the Prospective Test Period, the date of completion of the project for which the additional System Obligations are to be issued.

**CONFIRMING RESOLUTION.** A resolution adopted on the date of adoption of this Bond Ordinance declaring the necessity of the issuance of the Bonds and confirming the terms hereof for purposes of Section 72-1-10(M) NMSA 1978, as amended.

**CONSULTING ENGINEER.** Any registered or licensed professional engineer or firm of engineers, entitled to practice and practicing as such under the laws of the State, retained and



compensated by the Water Authority but not in the regular employ of the Water Authority, the City or the County; but, as to any construction drawings and specifications prepared for the System by Water Authority or City employees under the supervision of an engineer employed by the Water Authority or the City, this term may include such engineer.

**CONTINUING DISCLOSURE UNDERTAKING.** The undertaking of the Water Authority for the benefit of Owners pursuant to which the Water Authority will agree for the benefit of Owners that, while the Bonds are Outstanding, the Water Authority will annually provide certain financial information and operating data and audited financial statements and will provide notice of certain events in accordance with Rule 15c2-12 promulgated under the Securities Exchange Act of 1934.

**COUNSEL.** An attorney at law (who may be counsel to the Water Authority).

**COUNTY.** Bernalillo County, New Mexico.

**CREDIT FACILITY.** A letter of credit, line of credit, Bond Insurance Policy or Reserve Account Surety Bond, guaranty or similar agreement provided by a Credit Source to provide support to pay the purchase price of, or the payment when due of the principal of and interest on, System Obligations.

**CREDIT SOURCE.** Any bank, insurance company or other financial institution which provides a Credit Facility for a series of System Obligations.

**DEBT SERVICE ACCOUNT.** An account of the Debt Service Fund for the deposit of Net Revenues and proceeds of a series of System Obligations for the payment of Debt Service Requirements on that series of System Obligations.

**DEBT SERVICE FUND.** The Debt Service Fund previously established by the Water Authority and continued by this Bond Ordinance.

**DEBT SERVICE REQUIREMENTS.** With respect to System Obligations and for any given period, the sum of:

(1) the amount required to pay the interest, or to make reimbursements for payments of interest, becoming due on System Obligations during that period, plus

(2) the amount required to pay the principal or Accreted Value, or to make reimbursements for the payment of principal or Accreted Value, becoming due on System Obligations during that period, whether at maturity, an accretion term date or upon mandatory sinking fund redemption dates, plus

(3) the periodic payments required to be made by the Water Authority pursuant to a Qualified Exchange Agreement minus

(4) the periodic payments to be received by the Water Authority pursuant to a Qualified Exchange Agreement. No payments required for any System Obligations which may be tendered or otherwise presented for payment at the option or demand of the owners of System Obligations, or which may occur because of the exercise of an option by the Water Authority, or which may otherwise become due by reason of any other circumstance or contingency, including acceleration or early termination payments, which constitute other than regularly scheduled payments of principal, Accreted Value, interest or other regularly scheduled payments on System Obligations shall be included in any computation of Debt Service Requirements for that period.

Unless, at the time of computation of Debt Service Requirements, payments on System Obligations are owed to, or System Obligations are owned or held by, the provider of a Credit Facility pursuant to the provisions of that Credit Facility, the computation of interest for the purposes of this definition shall be made without considering the interest rate payable pursuant to a Credit Facility.

In any computation of Debt Service Requirements relating to the issuance of additional System Obligations, there shall be excluded from the computation of the Debt Service Requirements amounts and investments which are irrevocably committed to make designated payments on System Obligations during the applicable period, including, without limitation, money on deposit in any Debt Service Account and amounts on deposit in an escrow account irrevocably committed to make designated payments on System Obligations during the applicable period and earnings on such investments which are payable and committed to the payment of such System Obligations during the applicable period. For the purpose of the definition of Debt Service Requirements, the Accreted Value of Capital Appreciation Bonds becoming due shall be included in the calculation of accrued and unpaid and accruing interest and principal only from and after the date which is one year prior to the date on which the Accreted Value becomes payable.

Unless otherwise required by a Water Authority ordinance or resolution relating to a series of System Obligations, to determine Debt Service Requirements of Variable Rate Obligations, the Water Authority shall use the procedures set forth in the following paragraphs to determine the amount of interest or other payments to be paid by the Water Authority on Variable Rate Obligations.

(1) During any historical period for which the actual variable interest rate or rates are determinable, the actual variable interest rate shall be used. During any historical period when the actual variable interest rate is not determinable, the variable interest rate shall, for the purpose of determining Debt Service Requirements, be deemed to be the higher of:

(a) the actual variable interest rate, if any, at the time of computation; or

(b) a fixed annual rate equal to the prevailing rate on the Variable Rate Obligations on the date of computation (which, for the purpose of determining the

Debt Service Requirements, shall be a date which is no more than 60 days prior to the date of issuance of the applicable System Obligations) as certified by the Water Authority's financial advisor, the purchaser of the System Obligations, an investment banker designated by the Water Authority from time to time or a counterparty with respect to a Qualified Exchange Agreement.

(2) Prospective computations of interest payable on Variable Rate Obligations, including those relating to the issuance of additional System Obligations required by Section 27 or required by the Rate Covenant, shall be made on the assumption that such obligations bear interest at a fixed annual rate equal to:

(a) the average of the daily rates of such System Obligations during the 365 consecutive days (or any lesser period such System Obligations have been Outstanding) next preceding a date which is no more than 60 days prior to the date of the issuance of the additional System Obligations; or

(b) with respect to System Obligations initially issued or incurred as or being converted to Variable Rate Obligations, the estimated initial rate of interest of such System Obligations upon the date of issuance, exchange or conversion as certified by the Water Authority's financial advisor, another investment banker, as designated by the Water Authority from time to time, or a counterparty with respect to a Qualified Exchange Agreement.

#### DEFEASANCE OBLIGATIONS.

(1) Government Obligations; or

(2) if permitted by law, other obligations which would result in the defeased Bonds receiving the same rating from any national rating agency then rating such series of bonds as would have been received if the obligations described in clause (1) of this definition had been used.

DEPOSITORIES. The following registered securities depository: The Depository Trust Company, 570 Washington Boulevard, Jersey City, New Jersey 07310, <http://www.dtcc.com>; or in accordance with then-current guidelines of the Securities and Exchange Commission, to such other addresses and/or such other securities depositories, or no such depositories, as an Authorized Officer may designate in a certificate of the Water Authority.

DRINKING WATER STATE REVOLVING FUND LOAN AGREEMENT (2008). The loan agreement dated November 7, 2008 between the NMFA and the Water Authority in the original principal amount of \$12,000,000, authorized and approved by Water Authority Ordinance Enactment No. F/S O-08-4 and Resolution Enactment No. F/S R-08-13 as amended by Ordinance No. F/S O-14-2 and the Amendment to the Loan Agreement dated July 24, 2014 constituting a subordinate lien on the Net Revenues.

DRINKING WATER STATE REVOLVING FUND LOAN AGREEMENT (2009). The loan agreement between the NMFA and the Water Authority in the original principal amount of

\$1,010,000, authorized and approved by Water Authority Ordinance Enactment No. O-09-9 and Resolution Enactment No. R-09-24 constituting a senior lien on the Net Revenues.

DRINKING WATER STATE REVOLVING FUND LOAN AGREEMENT #4200 (2018). The loan agreement between the NMFA and the Water Authority in the original principal amount of \$505,000 authorized and approved by Water Authority Ordinance No. O-18-2 and Resolution No. R-18-7 constituting a senior lien on the Net Revenues.

DRINKING WATER STATE REVOLVING FUND LOAN AGREEMENT #4202 (2018). The loan agreement between the NMFA and the Water Authority in the original principal amount of \$250,000 authorized and approved by Water Authority Ordinance No. O-18-5 and Resolution No. R-18-11 constituting a senior lien on the Net Revenues.

ELECTRONIC MEANS. Telephone, telecopy, telegraph, email, facsimile transmission or any other similar means of electronic communication. Any communication by telephone as an Electronic Means shall promptly be confirmed in writing, which may be by one of the other means of electronic communication listed in this definition.

EMMA. The Municipal Securities Rulemaking Board's Electronic Municipal Market Access System located on its website at [emma.msrb.org](http://emma.msrb.org).

EXPENSE ACCOUNT. That account established for the purpose of paying Expenses and which is a separate account of the Debt Service Fund.

EXPENSES. The reasonable and necessary fees, costs and expenses incurred by the Water Authority with respect to the issuance of, including disclosure matters pertaining to, the Bonds, including, without limitation, attorneys' fees and costs, financial advisor's fees and costs, premiums and costs for any Credit Facility, costs of advertising and publication, underwriter's discounts, cost of printing bonds and disclosure documents, legal fees and expenses, and expenses of any Independent Accountant and all reasonable and necessary fees and administrative costs of the Water Authority relating to the foregoing.

FISCAL YEAR. The twelve-month period beginning on the first day of July of each year and ending on the last day of June of the next succeeding year, or any other consecutive twelve-month period, which the Water Authority designates.

GOVERNMENT OBLIGATIONS. Direct obligations of, or obligations the principal of and interest on which are unconditionally guaranteed by, the United States of America, or certificates or receipts established by the United States Government or its agencies or instrumentalities representing direct ownership of future interests or principal payments on direct obligations of, or obligations fully guaranteed by, the United States of America or any of its agencies or instrumentalities the obligations of which are backed by the full faith and credit of the United States, which obligations are held by a custodian in safekeeping on behalf of the holders of such receipts, and rated or assessed in its highest Rating Category by S&P, if then rating the Bonds, by Fitch, if then rating the Bonds, and by Moody's, if then rating the Bonds.

**GROSS REVENUES.** All income and revenues directly or indirectly derived by the Water Authority from the operation and use of the System, or any part of the System, and includes, without limitation, all revenues received by the Water Authority, or any municipal corporation or agency succeeding to the rights of the Water Authority, from the System and from the sale and use of water, water services or facilities, sewer service or facilities or any other service, commodity or facility or any combination thereof furnished to the inhabitants of the geographic area served by the Water Authority by means of the System as the same may at any time exist to serve customers outside the Water Authority's geographical limits as well as customers within the Water Authority's geographical limits. Such term also includes:

(1) All income derived from the investment of any money in the Acquisition Fund, Joint Water and Sewer Fund, Debt Service Fund and Rate Stabilization Fund and income derived from surplus Net Revenues;

(2) Money released from the Rebate Fund to the Water Authority;

(3) Money released from the Rate Stabilization Fund to the Water Authority to the extent that the amount released is used to pay Operation and Maintenance Expenses or Debt Service Requirements on System Obligations in the year released; provided that withdrawals from the Rate Stabilization Fund shall not be included in Gross Revenues for the purposes of the Rate Covenant in any two consecutive calendar years;

(4) Property insurance proceeds which are not necessary to restore or replace the property lost or damaged and the proceeds of the sale or other disposition of any part of the System;

(5) Funds received from users of the System as a reimbursement of, or otherwise in connection with, franchise fees to be paid by the Water Authority;

Gross Revenues do not include:

(a) any money received as grants or gifts from the United States of America, the State or other sources, or the proceeds of any charge or tax intended as a replacement therefor or other capital contributions from any source which are restricted as to use; and

(b) condemnation proceeds or the proceeds of any insurance policy, except any property insurance proceeds described above in clause (4) of this definition or in Section 29.(L) or derived in respect of loss of use or business interruption.

**HISTORIC TEST PERIOD.** Any period of 12 consecutive months out of the 24 calendar months next preceding the delivery of additional Senior Obligations pursuant to Section 27.(B) or additional Subordinate Obligations pursuant to Section 27.(C).

**INDEPENDENT ACCOUNTANT.** Any certified public accountant, registered accountant, or firm of accountants duly licensed to practice and practicing as such under the laws of the State, appointed and paid by the Water Authority who (i) is, in fact, independent and not under the domination of the Water Authority, the City or the County, (ii) does not have any substantial interest, direct or indirect, with the Water Authority, the City or the County, and (iii) is not connected with the Water Authority as an officer or employee of the Water Authority, but who may be regularly retained to make annual or similar audits of the books or records of the Water Authority, the City or the County.

**INSURED BANK.** A bank insured by an agency of the United States.

**INSURED OBLIGATIONS.** System Obligations insured by a Bond Insurance Policy or payable with the proceeds of another Credit Facility.

**INTEREST PAYMENT DATE.** January 1 and July 1 of each year (or if such day is not a Business Day, then the next succeeding Business Day) beginning on January 1, 2019.

**JOINT WATER AND SEWER FUND.** The “City of Albuquerque, New Mexico, Joint Water and Sewer Fund” originally established in Section 16 of Ordinance No. 18-1984 and continued by this Ordinance as the “Albuquerque Bernalillo County Water Utility Authority Joint Water and Sewer Fund.”

**MOODY’S.** Moody’s Investors Service, Inc., a corporation organized and existing under the laws of the State of Delaware, its successors and their assigns, and, if such corporation does not provide a rating for the Bonds, “Moody’s” shall be deemed to refer to any other nationally recognized securities rating agency rating the Bonds.

**NMFA.** The New Mexico Finance Authority.

**NMSA 1978.** New Mexico Statutes Annotated, 1978 Compilation, as amended and supplemented.

**NET REVENUES.** The Gross Revenues after deducting Operation and Maintenance Expenses.

**OFFICIAL STATEMENT.** The final disclosure document relating to the offer and sale of the Bonds (including the cover page and all summary statement appendices and other materials included or incorporated by reference or attached thereto), as amended or supplemented.

**OPERATION AND MAINTENANCE EXPENSES.** All reasonable and necessary current expenses of the System, paid or accrued, related to operating, maintaining and repairing the System including, without limiting the generality of the foregoing:

- (1) legal and overhead expenses directly related and reasonably

allocable to the administration of the System;

(2) insurance premiums for the System, including, without limitation, premiums for property insurance, public liability insurance and workmen's compensation insurance, whether or not self-funded;

(3) premiums, expenses and other costs (other than required reimbursements of insurance proceeds and other amounts advanced to pay Debt Service Requirements on System Obligations) for Credit Facilities;

(4) Expenses other than expenses paid from the proceeds of System Obligations;

(5) the costs of audits of the books and accounts of the Water Authority and the System;

(6) amounts required to be deposited in the Rebate Fund or otherwise required to make rebate payments to the United States Government;

(7) salaries, administrative expenses, labor costs, surety bonds and the cost of materials and supplies used for or in connection with the current operation of the System; and

(8) franchise tax payments to the City, County or any other local government.

Operation and Maintenance Expenses do not include any allowance for depreciation, payments in lieu of taxes, liabilities incurred by the Water Authority as a result of its negligence or other misconduct in the operation of the System or any charges or costs allocable to capital improvements or replacements. Operation and Maintenance Expenses do not include any payment of or reimbursement for the payment of Debt Service Requirements or premiums on the Bonds.

**OUTSTANDING.** When used in reference to System Obligations, on any particular date, the aggregate of all System Obligations issued and delivered under the applicable Water Authority ordinance authorizing the issuance of, System Obligations except:

(1) those canceled at or prior to such date or delivered to or acquired by the Water Authority at or prior to such date for cancellation;

(2) those which have been paid or are deemed to be paid in accordance with the Water Authority or City ordinance or resolution authorizing the issuance of the applicable System Obligations or otherwise relating thereto, provided that the payment of Insured Obligations with the proceeds of a Bond Insurance Policy shall not result in those Insured Obligations ceasing to be Outstanding;

(3) in the case of Variable Rate Obligations, System Obligations deemed tendered but not yet presented for payment;

(4) those Bonds which have been refunded in accordance with this Bond Ordinance or other ordinance of the Water Authority authorizing the defeasance of the applicable bonds; and

(5) those in lieu of or in exchange or substitution for which other System Obligations shall have been delivered, unless proof satisfactory to the Water Authority and the Paying Agent for the applicable System Obligations is presented that any System Obligation for which a new System Obligation was issued or exchanged is held by a bona fide holder in due course.

**OWNER.** The registered owner or owners of any Bond as shown on the registration books maintained by the Registrar.

**PAYING AGENT.** The chief financial officer or successor in function of the Water Authority or any trust company, national or state banking association or financial institution qualified to act, appointed as the paying agent for the Bonds by an Authorized Officer from time to time.

**PERMITTED INVESTMENTS.** Any of the following which at the time of the investment are legal investments for the Water Authority for the money to be invested and any other investments, subject to approval by S&P, Fitch and Moody's, if then rating the Bonds, which at the time of investment are legal investments of the Water Authority for the money to be invested:

(1) United States Government Obligations: Securities backed by the full faith and credit of the U.S. Government including direct obligations of the U.S. Treasury, such as U.S. treasury notes and bills and "Ginnie Mae" mortgage-backed certificates issued by the Government National Mortgage Association;

(2) United States Government Obligations: Securities issued or guaranteed by U.S. Government agencies, instrumentalities or sponsored enterprises, but which are not backed by the full faith and credit of the U.S. Government. These securities include Federal Farm Credit Bank "FFCB", Federal Home Loan Bank "FHLB", Federal Home Loan Mortgage Corporation "FHLMC" and Federal National Mortgage Association "FNMA" and other entities that qualify as instrumentalities of the U.S. government. Additionally, mortgage-backed certificates, and debentures issued by "Freddie Mac" (Federal Home Loan Mortgage Corporation) and "Fannie Mae" (Federal National Mortgage Association) are allowable;

(3) Bank, Savings and Loan Associations or Credit Unions: Deposits in certified and designated New Mexico financial institutions, per the requirement in the New Mexico Constitution Article VIII, Section 4, whose deposits are insured by an agency of the



United States. All deposits will comply with State law of the Board related to interest rate and collateral requirements. CD deposits shall not be made with custodial banks of the Water Authority. A deposit in any credit union shall be limited to the amount insured by an agency of the United States;

(4) Municipal Securities: Obligations, the interest on which is excluded from gross income of the recipient for federal income tax purposes, which comply with State law and the policies of the Board;

(5) Money market instruments and other securities of commercial banks, broker-dealers or recognized financial investors, which securities or institutions are rated in the highest Rating Category by S&P, Fitch or Moody's, if then rating the Bonds, or which securities are guaranteed by a person or entity whose long-term debt obligations are rated in the highest Rating Category by S&P, Fitch and Moody's, if then rating the Bonds, including, without limitation, securities of, or other interests in, any open-end or closed-end management type investment company or investment trust registered under the provisions of 15 U.S.C. Sections 80(a)-1 et. seq., which invest only in, or whose securities are secured only by, obligations of the type set forth in paragraphs (1) and (2) of this definition;

(6) The "participating government investment fund" described in Section 6-10-10.1 NMSA. 1978 or other similar pooled fund maintained by the State for the investment of public funds of local public bodies of the State; and Repurchase agreements involving the purchase and sale of, and guaranteed investment contracts, the par value of which is collateralized by a perfected first pledge of, or security interest in, or the payments of which are unconditionally guaranteed by, securities described in parts (1) and (2) of this definition, which collateral is held by the Water Authority, or for the benefit of the Water Authority, by a party other than the provider of the guaranteed investment contract or repurchase agreement, with a collateralized value of at least 102% of the par value of such repurchase agreement or guaranteed investment contract or 102% of the market value thereof, valued at intervals of no less than monthly and which collateral is not subject to any other pledge or security interest.

**PRELIMINARY OFFICIAL STATEMENT.** The initial disclosure document relating to the offer and sale of the Bonds (including the cover page and all summary statements, appendices and other materials included or incorporated by reference or attached thereto), as amended or supplemented.

**PROJECT.** Acquiring additional System assets, extending, repairing, replacing and improving the Water Authority's System and the payment of Expenses associated with the issuance of the Bonds.

**PROSPECTIVE TEST PERIOD.** The 12-month period commencing on the first day of the month following the estimated Completion Date of the project for which additional Senior Obligations or Subordinate Obligations are proposed to be issued pursuant to Section 27.(B) or Section 27.(C), respectively, or the first day of the thirty-sixth month following the delivery of such Senior Obligations or Subordinate Obligations, whichever is earlier.

**PUBLIC PROJECT REVOLVING FUND LOAN AGREEMENT (2011).** The loan agreement dated December 15, 2011 between the NMFA and the Water Authority in the principal amount of \$53,400,000 and approved by Ordinance No. O-11-5 and Resolution No. R-11-17 constituting a senior lien on the Net Revenues.

**QUALIFIED EXCHANGE AGREEMENT.** Any interest rate exchange between the Water Authority and a counterparty which, when entered into by the Water Authority, satisfies the requirements of Section 6-18-8.1 NMSA 1978.

**RATE COVENANT.** The covenant in Section 29.(C) relating to charging rates for use of the System to pay Debt Service Requirements.

**RATE STABILIZATION FUND.** The Rate Stabilization Fund for System Obligations previously established by the Water Authority and continued by the Bond Ordinance.

**RATING CATEGORY.** A generic securities rating category, without regard, in the case of a long-term rating category, to any refinement or gradation of such long-term rating category by a numerical modifier or otherwise.

**REBATE FUND.** The Rebate Fund for System Obligations previously established by the Water Authority and continued by the Bond Ordinance.

**RECORD DATE.** The fifteenth day of the calendar month preceding each Interest Payment Date.

**REGISTRAR.** The chief financial officer or successor in function of the Water Authority or any trust company, national or state banking association or financial institution qualified to act, appointed as the registrar for the Bonds by an Authorized Officer from time to time.

**RESERVE ACCOUNT.** The accounts of the Debt Service Fund to be established for Senior Obligations or Subordinate Obligations with a reserve requirement.

**RESERVE ACCOUNT SURETY BOND.** Any policy of insurance or surety bond or other Credit Facility issued to the Water Authority to be deposited in a Reserve Account, the proceeds of which shall be used to prevent deficiencies in the payment of the principal of or interest on a series of System Obligations, written by an insurer whose policies of insurance, or issued by a Credit Source whose Credit Facility, would not adversely affect the rating of the System Obligations by either Moody's or S&P if the Bonds are then rated by Moody's or S&P. At the time of the issuance of such policy, such insurer or the component insurance companies thereof or the obligations thereof shall have received the highest policy claims rating accorded insurers by the A. M. Best Company or any comparable service and either of the two highest rating categories of Moody's or S&P if the Bonds are then rated by Moody's or S&P.

S&P. S&P Global Ratings, a division of S&P Global Inc., its successors and their assigns, and, if such corporation does not provide a rating for the Bonds, “S&P” shall be deemed to refer to any other nationally recognized securities agency rating the Bonds.

**SALE CERTIFICATE.** One or more certificates executed by the Chief Financial Officer or other Authorized Officer dated on or before the date of delivery of the Bonds, setting forth the following final terms of the Bonds: (i) the interest and principal payment dates; (ii) the principal amounts, denominations and maturity amortization; (iii) the sale prices; (iv) the interest rate or rates; (v) the interest payment periods; (vi) the redemption and tender provisions; (vii) the creation of any capitalized interest fund, including the size and funding of such fund(s); (viii) the amount of underwriting discount, if any; and (ix) the final terms of agreements, if any, with agents or service providers required for the purchase, sale, issuance and delivery of the Bonds, all subject to the parameters and conditions contained in the Bond Ordinance.

**SENIOR OBLIGATIONS.** The Series 2009A-1 Bonds, the Drinking Water State Revolving Fund Loan Agreement (2009), the Public Project Revolving Fund Loan Agreement (2011), the Series 2013A&B Bonds, the Series 2014A Bonds, the Series 2015 Bonds, the Series 2017 Bonds, the Drinking Water State Revolving Fund Loan Agreement #DW-4200 (2018), the Drinking Water State Revolving Fund Loan Agreement #DW-4202 (2018), the Series 2018 Bonds, and obligations related thereto designated as Senior Obligations, in any ordinance or resolution of the Water Authority relating to those bonds, and any other System Obligations issued with a lien on the Net Revenues on a parity with the lien of the Outstanding Senior Obligations on Net Revenues.

**SERIES 2009A-1 BONDS.** The System Obligations designated as “Albuquerque Bernalillo County Water Utility Authority Joint Water and Sewer System Improvement Revenue Bonds, Series 2009A-1” in the original principal amount of \$135,990,000, authorized and issued pursuant to Ordinance No. O-09-1 and Resolution No. R-09-7 constituting a senior lien on the Net Revenues.

**SERIES 2013A&B BONDS.** The System Obligations designated as the “Albuquerque Bernalillo County Water Utility Authority Joint Water and Sewer System Improvement Revenue Bonds, Series 2013A” and the “Albuquerque Bernalillo County Water Utility Authority Joint Water and Sewer System Refunding Revenue Bonds, Series 2013B” in the combined original principal amount of \$118,215,000, authorized and issued pursuant to Ordinance No. O-13-2 and Resolution R-13-13 constituting a senior lien on the Net Revenues.

**SERIES 2014A BONDS.** The Senior System Obligations designated as the “Albuquerque Bernalillo County Water Utility Authority Senior Lien Joint Water and Sewer System Refunding Revenue Bonds, Series 2014A” in the original principal amount of \$97,270,000, authorized and issued pursuant to Ordinance No. F/S O-14-2 and Resolution F/S R-14-10 constituting a senior lien on the Net Revenues.

**SERIES 2014B BONDS.** The Subordinate System Obligations designated as the “Albuquerque Bernalillo County Water Utility Authority Subordinate Lien Joint Water and

Sewer System Refunding Revenue Bonds, Series 2014B” in the original principal amount of \$87,005,000, authorized and issued pursuant to Ordinance No. F/S O-14-2 and Resolution F/S R-14-10 constituting a subordinate lien on the Net Revenues.

**SERIES 2015 BONDS.** The Senior Obligations designated as the “Albuquerque Bernalillo County Water Utility Authority Senior Lien Joint Water and Sewer System Refunding and Improvement Revenue Bonds, Series 2015” in the original principal amount of \$211,940,000, authorized and issued pursuant to Ordinance No. O-15-2 and Resolution F/S R-15-6 constituting a senior lien on the Net Revenues.

**SERIES 2017 BONDS.** The Senior Obligations designated as the “Albuquerque Bernalillo County Water Utility Authority Senior Lien Joint Water and Sewer System Refunding and Improvement Revenue Bonds, Series 2017” in the original principal amount of \$87,970,000, authorized and issued pursuant to Ordinance No. O-16-2 and Resolution F/S R-16-13 constituting a senior lien on the Net Revenues.

**SERIES 2018 BONDS DEBT SERVICE ACCOUNT.** An account of the Debt Service Fund established for the deposit of amounts necessary to pay the Debt Service Requirements on the Series 2018 Bonds.

**SERIES 2018 BONDS ACQUISITION ACCOUNT.** An account of the Acquisition Fund established for the deposit of the portion of the proceeds of the Series 2018 Bonds to finance the Improvement Project.

**STATE.** The State of New Mexico.

**SUBORDINATE OBLIGATIONS.** The Drinking Water State Revolving Fund Loan Agreement (2008), the Series 2014B Bonds, and all other bonds and other obligations of the Water Authority now or hereafter issued with a lien on the Net Revenues subordinate to the lien of Senior Obligations and superior to the lien of the Super Subordinated Obligations on the Net Revenues.

**SUPER SUBORDINATED OBLIGATIONS.** All other bonds and other obligations of the Water Authority hereafter issued with a lien on the Net Revenues subordinate to the liens of the Senior Obligations and the Subordinate Obligations on the Net Revenues.

**SYSTEM.** The public utility owned by the Water Authority and designated as the Water Authority’s water system and sanitary sewer system (continued as a joint utility system in the Bond Ordinance) consisting of all properties, real, personal, mixed or otherwise, now owned or hereafter acquired by the Water Authority, through purchase, construction or otherwise, including all extensions, enlargements and improvements of or to the water and sanitary sewer system and used in connection therewith or relating thereto, and any other related activity or enterprise of the Water Authority designated by the Board as part of the water and sanitary sewer system, whether situated within or without the geographical limits of the Water Authority.

**SYSTEM OBLIGATIONS.** All bonds and other similar indebtedness payable solely or primarily from Net Revenues, including, without limitation, the Senior Obligations, the Subordinate Obligations and the Super Subordinated Obligations.

**UNDERWRITERS.** J.P. Morgan Securities LLC and Robert W. Baird & Co., collectively, as the original purchasers of the Bonds.

**VALUATION DATE.** Unless stated otherwise in an ordinance or resolution of the Board, each January 1 and July 1 while Capital Appreciation Bonds are Outstanding, being the dates on which the Accreted Value of Capital Appreciation Bonds are listed in the applicable ordinance or resolution.

**VARIABLE RATE OBLIGATIONS.** System Obligations, including reimbursement obligations pursuant to a Credit Facility, the interest rate on which is subject to change from time to time.

**WATER AUTHORITY.** The Albuquerque Bernalillo County Water Utility Authority created by NMSA 1978 Section 72-1-10 operating under the name Albuquerque Bernalillo County Water Utility Authority.

### **Priority on Net Revenues**

System Obligations may be issued as Senior Obligations by complying with the requirements for the issuance of additional Senior Obligations set forth in the Bond Ordinance or as Subordinate Obligations by complying with the requirements for the issuance of additional Subordinate Obligations. See "DESCRIPTION OF THE SERIES 2018 BONDS – Issuance of Additional System Obligations."

### **Payment of Series 2018 Bonds**

The principal of and premium, if any, on the Series 2018 Bonds are payable upon presentation and surrender of the Series 2018 Bonds at the principal office of the Paying Agent at or after their maturity or prior redemption dates. Interest on Series 2018 Bonds is payable by check or draft mailed to the Owner (or by such other arrangement as may be mutually agreed to by the Paying Agent and an Owner). The Owner will be deemed to be that person or entity shown on the registration books for the Series 2018 Bonds maintained by the Registrar at the address appearing in the registration books at the close of business on the applicable Record Date. Interest which is not timely paid or provided for will cease to be payable to the Owner of the applicable Series 2018 Bonds (or of one or more predecessor Series 2018 Bonds) as of the Record Date, but will be payable to the Owners of those Series 2018 Bonds (or of one or more predecessor Series 2018 Bonds) at the close of business on a special record date for the payment of the overdue interest. The special record date will be fixed by the Paying Agent and Registrar whenever money becomes available for payment of the overdue interest and notice of the special record date will be given to the Owners of the Series 2018 Bonds not less than ten days prior to that date. Payment shall be made in the coin or currency of the United States of America that is

at the time of payment legal tender for the payment of public and private debts. If the principal amount of any Series 2018 Bond presented for payment remains unpaid at maturity, the unpaid principal will bear interest at the rate designated in that Series 2018 Bond. Payments of Series 2018 Bonds will be made without deduction for exchange or collection charges.

The Water Authority shall transfer, or cause to be transferred, funds to the Paying Agent on a timely basis so that the Paying Agent may make payments of the principal of, premium, if any, and interest on the Series 2018 Bonds, when due, to the Owners and comply with the requirements of any Credit Source. The Water Authority shall notify the Paying Agent if there is or will be an insufficient amount of money of the Water Authority legally available to pay principal and interest on the Series 2018 Bonds when due.

### **Registration, Transfer, Exchange and Ownership of Series 2018 Bonds**

The Water Authority shall cause books for registration, transfer and exchange of the Bonds to be kept at the principal office of the Registrar. Upon surrender for transfer or exchange of any Bonds at the principal office of the Registrar duly endorsed by the Owner or his attorney duly authorized in writing, or accompanied by a written instrument or instruments of transfer or exchange in form satisfactory to the Registrar and properly executed, the Water Authority shall execute and the Registrar shall authenticate and deliver in the name of the transferee or Owner replacement Bonds of the same maturity, interest rate and aggregate principal amount in Authorized Denominations.

The person in whose name any Series 2018 Bond is registered will be deemed and regarded as its absolute Owner for all purposes, except as may otherwise be provided with respect to the payment of overdue interest on Series 2018 Bonds in Section 7(D) of the Ordinance. Payment of either the principal of or interest on any Series 2018 Bond is to be made only to or upon the order of its Owner or his legal representative. All such payments shall be valid and effectual to satisfy and discharge the liability on Series 2018 Bonds to the extent of the amount paid.

If any Series 2018 Bond is lost, stolen, destroyed or mutilated, the Registrar, upon receipt of that Series 2018 Bonds, if mutilated, and the evidence, information or indemnity which the Registrar may reasonably require, if lost, stolen or destroyed, authenticate and deliver a replacement Series 2018 Bond of the same aggregate principal amount, maturity and interest rate, bearing a number or numbers not then outstanding. If any lost, stolen, destroyed or mutilated Series 2018 Bond has matured or been called for redemption, the Registrar may direct the Paying Agent to pay that Series 2018 Bond in lieu of replacement.

Exchanges and transfers of Series 2018 Bonds are to be made without charge to the Owner or any transferee except that the Registrar may make a charge sufficient to reimburse the Registrar for any tax, fee or other governmental charge required to be paid with respect to that transfer or exchange.

Except for any Series 2018 Bonds which may be and is tendered for purchase, the Registrar will not be required to transfer or exchange (i) any Series 2018 Bond during the five-day period preceding the mailing of notice calling Series 2018 Bonds, as applicable, for redemption and (ii) any Series 2018 Bond called for redemption.

## **Funds and Accounts**

### *Joint Water and Sewer Fund*

All Gross Revenues are to be set aside and credited to the Joint Water and Sewer Fund.

### *Acquisition Fund*

The Acquisition Fund is continued for deposit of proceeds from the Series 2018 Bonds for completion of the Project.

### *Debt Service Fund*

The Debt Service Fund shall be continued as a separate fund for the deposit of Net Revenues for the payment of System Obligations and the Series 2018 Bonds Debt Service Account as a separate account of the Debt Service Fund.

### *Rate Stabilization Fund*

The Rate Stabilization Fund is continued as a separate fund.

## **Use of Gross Revenues**

As long as any Series 2018 Bonds are outstanding, all Gross Revenues are to be deposited in the Joint Water and Sewer Fund and transferred from that Fund to the following funds and accounts or for payment of the following amounts in the order listed:

### *Operation and Maintenance Expenses*

A sufficient amount of Gross Revenues is to be set aside each month to be used to pay the current Operation and Maintenance Expenses as they become due.

### *Debt Service Accounts for Senior Obligations*

Net Revenues are to be transferred to the Debt Service Accounts established for the Senior Obligations to pay Debt Service Requirements on Senior Obligations as they become due,

including amounts owed to any Credit Source to reimburse that Credit Source for the payments of Debt Service Requirements on Senior Obligations.

*Reserve Accounts for Senior Obligations*

Net Revenues are to be transferred to a Reserve Account, if any, to the extent that amounts on deposit in that Reserve Account are less than the amount (including coverage available under any applicable Reserve Account Surety Bond) required to be on deposit therein. The Net Revenues deposited shall be used first to reimburse the Credit Source for the proceeds of a Reserve Account Surety Bond used to pay Debt Service Requirements, second to replace money drawn from the Reserve Account and third to pay the Credit Source interest accrued and owed on amounts advanced pursuant to the Reserve Account Surety Bond.

*Debt Service Accounts for Subordinate Obligations*

Net Revenues shall be transferred to the Debt Service Accounts established for Subordinate Obligations to pay Debt Service Requirements on Subordinate Obligations, as they become due, including amounts owed to any Credit Source to reimburse that Credit Source for the payments of Debt Service Requirements on Subordinate Obligations.

*Reserve Accounts for Subordinate Obligations*

Net Revenues shall be transferred to a Reserve Account, if any, to the extent that amounts on deposit in that Reserve Account are less than the amount (including coverage available under any applicable Reserve Account Surety Bond) required to be on deposit therein. The Net Revenues deposited shall be used first to reimburse the Credit Source for the proceeds of a Reserve Account Surety Bond used to pay Debt Service Requirements, second to replace money drawn from the Reserve Account and third to pay to the Credit Source interest accrued and owed on amounts advanced pursuant to the Reserve Account Surety Bond.

*Super Subordinated Obligations*

Net Revenues shall be used to pay Debt Service Requirements on Super Subordinated Obligations, and to fund any Reserve Requirement for Super Subordinated Obligations.

*Rate Stabilization Fund*

At the option of the Water Authority, Net Revenues may be transferred to the Rate Stabilization Fund to be used for the purposes stated in the Bond Ordinance.

*Surplus Net Revenues*

Surplus Net Revenues are to be retained in the Joint Water and Sewer Fund or used for any other lawful System purpose including, but not limited to, redeeming or purchasing System Obligations or paying costs and expenses of the Water Authority relating to the administration of System Obligations.



### *Accumulation of Revenues*

Net Revenues need not be retained for any use or in any fund or account described above in excess of the Net Revenues required for any current use or deposit. For purposes of this subparagraph, the term "current" means the month during which the Net Revenues are being distributed and the immediately following month.

### **Series 2018 Bonds Debt Service Account**

Net Revenues are required to be transferred to the Series 2018 Bonds Debt Service Account sufficient to pay when due Debt Service Requirements of the Series 2018 Bonds.

Except as stated in the Bond Legislation, substantially equal monthly deposits of Net Revenues shall be made to the Series 2018 Bonds Debt Service Account beginning six months before each Interest Payment Date in order to make the next payment of interest on the Bonds when due. However, if the first Interest Payment Date for the Bonds is less than six months after the date of the original issuance of the Bonds, substantially equal monthly deposits of Net Revenues before the first Interest Payment Date shall begin in the first full month following the date of issuance of the Bonds in order to make the first payment of interest on the Bonds when due.

Except as stated in the Bond Legislation, substantially equal monthly deposits of Net Revenues shall be made to the Series 2018 Bonds Debt Service Account beginning 12 months before each principal payment date for the Bonds payable from such account in order to make the next scheduled payment of principal on the Bonds when due at maturity. However, if the first principal payment date for the Bonds is less than thirteen months after the date of the original issuance of the Bonds, substantially equal monthly deposits of Net Revenues before the first principal payment date shall begin in the first full month following the date of issuance of the Bonds in order to make the first payment of principal on the Bonds when due at maturity.

If, in the month immediately preceding any payment date for the Series 2018 Bonds, the Water Authority determines that there are not sufficient funds accumulated in the Series 2018 Bonds Debt Service Account to pay the amount becoming due on that payment date, the Water Authority is required to promptly deposit any available Net Revenues in the Series 2018 Bonds Debt Service Account in an amount equal to the deficiency. If, prior to any payment date for the Series 2018 Bonds, there has accumulated in the Series 2018 Bonds Debt Service Account the entire amount necessary to pay the amount becoming due on the Series 2018 Bonds payable from such account on that payment date, no additional Net Revenues need be deposited in the Series 2018 Bonds Debt Service Account prior to that payment date. In making the determinations permitted by this paragraph, the Water Authority may take into account the amount on deposit in any other fund or account or escrow relating to the Series 2018 Bonds irrevocably set aside for the next payment of the Series 2018 Bonds.

Amounts on deposit in the Series 2018 Bonds Debt Service Account will be applied first to the payment of interest and then to pay or satisfy any payment of principal on the respective Bonds. Except as provided in the Bond Legislation, money in the Series 2018 Bonds Debt Service Account shall be used only to pay the Debt Service Requirements on the Bonds. Transfers of amounts equal to the periodic Debt Service Requirements on the Bonds shall be made by the Water Authority on a timely basis to the Paying Agent.

### **Series 2018 Bonds Termination upon Deposits to Maturity**

No payments need be made into the Series 2018 Bonds Debt Service Account if the amount in the Series 2018 Bonds Debt Service Account is no less than the Debt Service Requirements due and to become due on and before the final maturity date of the Series 2018 Bonds, both accrued and not accrued, and all proceeds paid under any Credit Facility for the Series 2018 Bonds have been reimbursed. The money retained in that account shall be used only to pay the Debt Service Requirements on the Series 2018 Bonds when due except that any money on deposit in the Series 2018 Bonds Debt Service Account which is not necessary to pay such Debt Service Requirements shall be used as surplus Net Revenues.

### **Rate Stabilization Fund**

Money on deposit in the Rate Stabilization Fund may be withdrawn at any time and used for any purpose for which Gross Revenues may be used.

### **Pro Rata Deposits**

If the amount of Net Revenues available for deposit in the Debt Service Fund is not sufficient to pay the entire amount required to be deposited in the debt service accounts and/or reserve accounts for System Obligations, the Net Revenues available will be deposited in the debt service accounts and reserve accounts pro rata based upon the amount required to be deposited in each account to the total Net Revenues available for deposit but with the priorities established in Section 21(A) of the Ordinance.

With respect to each applicable series of System Obligations, reimbursements owed to a Credit Source for amounts used to pay Debt Service Requirements on those System Obligations shall be paid on the same pro rata basis and with the same priority as are amounts to be deposited in the Debt Service Account or Reserve Account, as applicable, for those System Obligations; provided that such reimbursements for payments of Debt Service Requirements made pursuant to a Credit Facility shall be made with the priorities set forth in the Bond Legislation.

### **Variable Rate Obligations**

Interest on variable rate obligations which cannot be computed exactly will be deemed to bear the interest rate required by the definition of Debt Service Requirements in the Bond Legislation. To determine the amount required to be on deposit in any debt service account for the payment of interest, computations of the interest rate on variable rate obligations will be

made whenever there is a change in the interest rate on the applicable variable rate obligations except that the computation need not be made more often than once in any month.

## **General Administration of Funds**

The funds and accounts described above are to be administered as follows:

### *Investment of Money*

To the extent practicable, any money in any such fund or account is to be invested in Permitted Investments. Obligations purchased as an investment of money in any fund or account are to be deemed at all times to be part of that fund or account, and the interest accruing and any profit realized on those investments are to be credited to that fund or account, unless otherwise stated in the Bond Legislation or related document (subject to withdrawal at any time for the uses directed and permitted for such money by the Bond Legislation or related document), and any loss resulting from such investment is to be charged to that fund or account. The custodian for any such fund or account is required to present for redemption or sale on the prevailing market any Permitted Investment in a fund or account when necessary to provide money to meet a required payment or when required to be transferred from that fund or account.

### *Deposits of Funds*

The money and investments which are part of the funds and accounts designated in the Ordinance shall be kept in an Insured Bank or Banks, or otherwise in Permitted Investments or may be held in book-entry form in the name of the Water Authority or by an agent or custodian of or for the Water Authority for the benefit of the Water Authority as permitted by State law. Each payment or deposit shall be made into and credited to the proper fund or account at the designated time, except that when the designated time is not a Business Day, then the payment is to be made on the next succeeding Business Day unless otherwise required in the Bond Legislation or related documents. The Water Authority may establish one or more accounts in Insured Banks for all of the funds and accounts with any other Insured Bank account or accounts for other funds and accounts of the Water Authority.

### *Valuation of Investments*

In the computation of the amount in any account or fund for any purpose under the Bond Legislation, except as otherwise expressly provided in the Bond Legislation, Permitted Investments shall be valued according to the accounting standards applicable to the Water Authority and the Board's investment policy.

## **Protective Covenants**

The Water Authority has covenanted and agreed with the Owners in the Ordinance as follows:

### *Use of Bond Proceeds*

The Water Authority will promptly apply the proceeds of the Bonds to the Project and for the other purposes permitted by the Bond Ordinance.

### *Payment of Series 2018 Bonds*

The Water Authority will promptly pay the Debt Service Requirements on Series 2018 Bonds at the place, on the dates and in the manner specified in the Bond Legislation and the Series 2018 Bonds.

### *Rate Covenants*

#### (1) Senior Lien Obligations

The Water Authority will charge all purchasers of services of the System, including the Water Authority, the City and the County, such reasonable and just rates as are sufficient to produce Net Revenues annually to pay 133% of the annual Debt Service Requirements on the Outstanding Senior Obligations (excluding accumulation of any reserves therefor).

#### (2) Subordinate Lien Obligations

The Water Authority will charge all purchasers of services of the System, including the Water Authority, the City and the County, such reasonable and just rates as are sufficient to produce Net Revenues annually to pay 120% of the annual Debt Service Requirements on the Outstanding Senior Obligations and the Outstanding Subordinate Obligations (excluding accumulation of any reserves therefor).

Quarterly, the Water Authority shall determine that the Net Revenues are sufficient to satisfy the Rate Covenants. If the Net Revenues are not sufficient to satisfy the Rate Covenant upon the approval of the annual audit for a Fiscal Year, the Water Authority will either: (i) promptly increase the rates for use of the Services of the System in order to generate sufficient Net Revenues to satisfy the Rate Covenants or (ii) employ a consultant or manager for the System who shall have a favorable national reputation for skill and experience in the management, operation and financial affairs of water and sanitary sewer systems and who is not an employee or officer of the Water Authority. The Water Authority will request that consultant or manager to make its recommendations, if any, as to revisions of the Water Authority's rate structure and other charges for use of the System, its Operation and Maintenance Expenses and the method of operation of the System in order to satisfy the Rate Covenants as soon as practicable. Copies of any such requests and recommendations of the consultant or manager shall be filed with the Board. So long as the Water Authority substantially complies with the recommendations of the consultant or manager on a timely basis, the Water Authority will not be deemed to have defaulted in satisfying the Rate Covenants even if the resulting Net Revenues are not sufficient to be in compliance with the Rate Covenants, if there is no other default under the Bond Legislation.

No free service, facilities or commodities shall be furnished by the System. If the Water Authority, the City or the County elects to use water supplied by, or the sanitary sewer facilities of, the System or in any other manner use the System, such use of the System by such entity shall be paid from lawfully available money of such entity at the reasonable value of the use made, service rendered or facility or commodity supplied as is charged to other similar users of the System.

Nothing contained in this section shall be interpreted to require the Water Authority to take any action in violation of any applicable requirement imposed by law.

#### *Lien on Lands Serviced by System*

To the extent permitted by law, the Water Authority will cause a lien to be perfected upon each lot or parcel of land for delinquent charges imposed for water and sanitary sewer services supplied by the System to the owner of such lot or parcel. The Water Authority will take all necessary steps to enforce the lien against any parcel of property the owner of which is delinquent for more than six months in the payment of charges imposed by the Water Authority.

#### *Levy of Charges*

The Water Authority will promptly fix, establish and levy the rates and charges which are required by Section 29.(C) of the Bond Ordinance. No reduction in any initial or existing rate schedule for the System may be made unless:

(1) the Water Authority has fully complied with the provisions of Section 21 of the Bond Ordinance for any 12 consecutive months out of the 16 calendar months immediately preceding the reduction of the rate schedule, and

(2) the audit required by Section 29.(I) of the Bond Ordinance or a separate certificate by an Independent Accountant for or relating to any 12 consecutive months out of the 16 calendar months immediately preceding any reduction discloses that the estimated Net Revenues resulting from the proposed reduced rate schedule would have been sufficient to meet the applicable Rate Covenant during the applicable 12-month period.

#### *Efficient Operation*

The Water Authority will maintain the System in efficient operating condition and make such improvements, extensions, enlargements, repairs and betterments to the System as may be necessary or advisable for its economical and efficient operation at all times and to supply reasonable public and private demands for System services within the area served by the Water Authority.

### *Records; Right to Inspect*

So long as Series 2018 Bonds remain Outstanding, the Water Authority will keep or cause to be kept proper books of records and accounts, separate from all other records and accounts, showing complete and correct entries of all transactions relating to the System. Owners, or their duly authorized agents, shall have the right to inspect at reasonable times all records, accounts and data relating to the System; however, pursuant to Section 6-14-10(E) NMSA 1978, records with regard to the ownership or pledge of the Series 2018 Bonds are not subject to inspection or copying.

### *Audits*

So long as the Series 2018 Bonds are Outstanding, within 270 days following the close of each Fiscal Year, the Water Authority will cause an audit of the books and accounts of the System to be made by an Independent Accountant. Each audit of the System shall include those matters determined to be proper by the Independent Accountant.

### *Billing Procedure*

Bills for water, water services or facilities, sanitary sewer service or facilities, or any combination thereof, furnished by or through the System are to be provided to customers on a regular basis each month following the month in which the service was rendered and shall be due as required by Water Authority ordinance. If permitted by law, if a bill is not paid within the period of time required by Water Authority ordinance, water and sanitary sewer services are to be discontinued as required by Water Authority ordinance, and the rates and charges due are to be collected in a lawful manner, including but not limited to the cost of disconnection and reconnection.

### *Charges and Liens Upon System*

The Water Authority will pay when due from Gross Revenues or other legally available funds all taxes and assessments or other municipal or governmental charges, lawfully levied or assessed upon the System and will observe and comply with all valid requirements of any municipal or governmental authority relating to the System. The Water Authority will not create or permit any lien or charge upon the System or the Gross Revenues or Net Revenues except as permitted by the Bond Ordinance, or it will make adequate provisions to satisfy and discharge within 60 days after the same accrue, all lawful claims and demands for labor, materials, supplies or other objects, which, if unpaid, might by law become a lien upon the System or the Gross Revenues or the Net Revenues. However, the Water Authority will not be required to pay or cause to be discharged, or make provision for any tax assessment, lien or charge before the time when payment becomes due or so long as the validity thereof is contested in good faith by appropriate legal proceedings and there is no adverse effect on Owners.

### *Insurance*

In its operation of the System, the Water Authority will carry fire and extended coverage insurance. As required by law, the Water Authority will acquire insurance or maintain a self-insurance fund to cover workmen's compensation insurance and public liability insurance. In the event of property loss or damage to the System, insurance proceeds are to be used first for the purpose of restoring or replacing the property lost or damaged and any remainder is to be treated as Gross Revenues.

### *Alienating System*

Except as permitted in the Bond Ordinance, while any Series 2018 Bonds are Outstanding, the Water Authority will not sell, lease, mortgage, pledge or otherwise encumber, or in any manner dispose of, or otherwise alienate, any part of the System, except that the Water Authority may sell any portion of the property of the System which is replaced by other property of at least equal value, or which ceases to be necessary for the efficient operation of the System. In the event of any sale of System property, the proceeds of such sale which are not used to purchase other System property will be distributed as Gross Revenues.

### *Extending Interest Payments*

To prevent any accumulation of claims for interest after maturity, except as permitted by the Bond Legislation, the Water Authority will not directly or indirectly extend or assent to the extension of the time for the payment of any claim for interest on Series 2018 Bonds. If the time for payment of interest is extended contrary to the provisions described in this paragraph, the installments of interest extended will not be entitled, in case of an event of default under the Bond Legislation, to the benefit or security of the Bond Legislation until the prior payment in full of the principal of and interest on all other Series 2018 Bonds then Outstanding.

### *Competent Management; Performing Duties*

The Water Authority will employ experienced and competent personnel to manage the System, and will faithfully and punctually perform all duties with respect to the System required by State, City and County laws including, but not limited to, making and collecting reasonable and sufficient rates and charges for services rendered or furnished by the System as required by the Bond Ordinance and the proper segregation and application of the Gross Revenues.

### *Other Liens*

Other than as stated in or provided by the Bond Legislation, there are no liens or encumbrances of any nature whatsoever, on or against the System or Gross Revenues or Net Revenues.

### *Water Authority's Existence*

The Water Authority will maintain its corporate identity and existence as long as Series 2018 Bonds remain outstanding.

### *Tax Compliance*

The Water Authority covenants that it will use and will restrict the use and investment of the proceeds of the Series 2018 Bonds in such manner and to such extent as may be necessary so that the Series 2018 Bonds will not (i) constitute private activity bonds, arbitrage bonds or hedge bonds under Sections 141, 148 or 149 of Code or (ii) be treated other than as bonds to which Section 103(a) of the Code applies, and (iii) the interest thereon will not be treated as a preference item under Section 57 of the Code. The Water Authority further covenants (i) that it will also take or cause to be taken such actions that may be required of it for the interest on the Series 2018 Bonds to be and remain excluded from gross income for federal income tax purposes, (ii) that it will not take or authorize to be taken any actions that would adversely affect that exclusion, and (iii) that it, or persons acting for it, will, among other acts of compliance, (i) apply the proceeds of the Series 2018 Bonds to the governmental purposes of the borrowings, (ii) restrict the yield on investment property, (iii) make timely and adequate rebate payments or payments of alternative amounts in lieu of rebate to the federal government, (iv) maintain books and records and make calculations and reports, and (v) refrain from certain uses of those proceeds and, as applicable, of property financed with such proceeds, all in such manner to the extent necessary to assure such exclusion of that interest under the Code.

Authorized Officers are authorized (i) to make or effect any election, selection, designation, choice, consent, approval, or waiver on behalf of the Water Authority as the Water Authority is permitted or required to make or give under the federal income tax laws including, without limitation thereto, any of the elections provided for in Section 148(f)(4)(C) of the Code or available under Section 148 of the Code, for the purpose of assuring, enhancing or protecting favorable tax treatment or status of the Series 2018 Bonds or interest thereon or assisting in the compliance with requirements for that purpose, reducing the burden or expense of such compliance, reducing the rebate amount or payments of penalties, or making payments of special amounts in lieu of making computations to determine, or paying, excess earnings as rebate, or obviating those amounts or payments, as determined by that officer, which action shall be in writing and signed by the Authorized Officer, (ii) to take any and all other actions, make or obtain calculations, make payments, and make or give reports, covenants and certifications of and on behalf of the Water Authority, as may be appropriate to assure the exclusion of interest from gross income and the intended tax status of the Series 2018 Bonds, and (iii) to give one or more appropriate certificates of the Authority, for inclusion in the transcripts of the proceedings for the Series 2018 Bonds, setting forth the reasonable expectations of the Water Authority regarding the amount and use of all the proceeds of the Series 2018 Bonds, the facts, circumstances and estimates on which they are based, and other facts and circumstances relevant to the tax treatment of the interest on and the tax status of the Series 2018 Bonds.



## **Events of Default**

Each of the following events is declared an "event of default" under the Bond Legislation:

- (1) Failure to pay the principal or Accreted Value of the Series 2018 Bonds when due and payable, either at maturity or otherwise.
- (2) Failure to pay any installment of interest on the Series 2018 Bonds when due and payable.
- (3) For any reason, the Water Authority becomes incapable of fulfilling its obligations under the Bond Legislation.
- (4) Default by the Water Authority in the due and punctual performance of its covenants, conditions, agreements and provisions contained in System Obligations or in any Water Authority ordinance authorizing those System Obligations and the continuance of such default (other than a default as described above) for 60 days after written notice specifying such default and requiring the same to be remedied has been given to the Water Authority by any Credit Source or the Owners of 25% in principal amount and Accreted Value of the System Obligations then Outstanding.

## **Remedies upon Default**

Upon the happening and continuance of any of the events of default stated in the Ordinance: (i) any applicable Credit Source may proceed with any available remedies under any Credit Facility; and (ii) the Owners of not less than 66% in principal amount and Accreted Value of the System Obligations then Outstanding, including but not limited to a trustee or trustees therefor, with the consent of the Credit Source with respect to Insured Obligations, may proceed against the Water Authority or the Board or both to:

- (1) protect and enforce the rights of the Owners by mandamus or other suit, action or special proceedings in equity or at law, in any court of competent jurisdiction, either for the appointment of a receiver or for the specific performance of any covenant or agreement contained in the Bond Legislation or for the enforcement of any proper legal or equitable remedy as those Owners may deem necessary or desirable to protect and enforce their rights,
- (2) to enjoin any act or thing which may be unlawful or in violation of any right of any Owner,
- (3) to require the Board to act as if it were the trustee of an express trust, or
- (4) any combination of those remedies.

All proceedings shall be instituted and maintained for the equal benefit of all Owners of System Obligations then Outstanding, subject to the provisions of Section 21 of the Bond Ordinance with respect to the use of Gross Revenues. The Owners by purchasing System Obligations consent to the appointment of a receiver to protect the rights of the Owners. The receiver may enter and take possession of and operate and maintain the System and will prescribe rates, fees or charges and collect, receive and apply all Gross Revenues as required by the Bond Ordinance. The failure of any Owner to exercise any right granted by this section shall not relieve the Water Authority of any obligation to perform any duty. Each right or privilege of any Owner (or trustee or receiver therefor) is in addition and cumulative to any other right or privilege and the exercise of any right or privilege by or on behalf of any Owner will not be deemed a waiver of any other right or privilege of any Owner.

Notwithstanding any other provision in the Bond Legislation, no recourse may be had for the payment of any Series 2018 Bond or for any claim based on any other obligation, covenant or agreement contained in the Bond Legislation against any past, present or future officer, employee or agent of the Water Authority or member of the Board, and all such liability of any such officers, employees, agents or member (as such) is released as a condition of and consideration for the adoption of the Bond Legislation and the issuance of the Series 2018 Bonds.

Upon the occurrence and continuance of an Event of Default, so long as the Credit Source, if any, is not in default in its payment obligations under the Bond Insurance Policy, the Credit Source shall be entitled to control and direct the enforcement of all rights and remedies granted to the Owners with respect to Insured Obligations and such Credit Source shall also be entitled to direct and approve all waivers of Events of Default with respect to Insured Obligations.

### **Duties upon Default**

Upon the happening of any of the events of default under Section 31 of the Bond Ordinance, the Water Authority will do and perform all proper acts on behalf of and for the Owners necessary to protect and preserve the security created for the payment of the System Obligations and for the payment of the Debt Service Requirements on the System Obligations promptly as the same become due. As long as any of the System Obligations are Outstanding, all Gross Revenues will be distributed and used for the purposes and with the priorities set forth in Section 21 of the Bond Ordinance. If the Water Authority fails or refuses to proceed as provided in the Bond Ordinance, the Owners of not less than 66% in principal amount and Accreted Value of the System Obligations then Outstanding after demand in writing, may proceed to protect and enforce the rights of the Owners as provided in the Bond Legislation.

### **Defeasance**

When all principal, interest and prior redemption premiums, if any, in connection with all or any part of the Series 2018 Bonds have been paid or provided for (including amounts owed to the Credit Source, if any under any Bond Insurance Policy), the pledge and lien and all

obligations under the Bond Legislation with respect to those Series 2018 Bonds and any Bond Insurance Policy will be discharged and those Series 2018 Bonds will no longer be deemed to be Outstanding within the meaning of the Bond Legislation.

Without limiting the preceding paragraph, there shall be deemed to be such payment when: (i) the Board has caused to be placed in escrow and in trust with an escrow agent located within or without the State and exercising trust powers, an amount sufficient (including the known minimum yield from Defeasance Obligations in which such amount may be initially invested) to pay all requirements of principal, interest and prior redemption premium, if any, on the Series 2018 Bonds to be defeased as the same become due to the final maturities or upon designated prior redemption dates, and (ii) any Series 2018 Bonds to be redeemed prior to maturity shall have been duly called for redemption or irrevocable instructions to call such Series 2018 Bonds for redemption have been given to the Registrar. The escrow agent shall have received evidence satisfactory to it that the cash and Defeasance Obligations delivered will be sufficient to provide for the payment of the Series 2018 Bonds to be defeased as stated above. Neither the Defeasance Obligations nor money deposited with the escrow agent shall be withdrawn or used for any purpose other than as provided in the escrow agreement and the Defeasance Obligations and money shall be segregated and held in trust for the payment of the principal and premium, if any, and interest on the Series 2018 Bonds with respect to which such deposit has been made. The Defeasance Obligations shall become due prior to the respective times at which the proceeds are needed in accordance with a schedule established and agreed upon between the Board and the escrow agent at the time of the creation of the escrow, or the Defeasance Obligations shall be subject to redemption but only at the option of the holders or owners thereof to assure the availability of the proceeds as needed to meet the schedule.

Until reimbursement is made by the Water Authority to the applicable Credit Source, if the principal and/or interest due on Insured Obligations is paid by a Credit Source pursuant to a Credit Facility, the applicable Insured Obligations shall remain Outstanding, shall not be defeased or otherwise satisfied and shall not be considered to be paid by the Water Authority. In such case, the assignment and pledge of the Net Revenues for the payment of the Insured Obligations paid by the Credit Source and all covenants, agreements and other obligations of the Water Authority to the Owners of those Insured Obligations shall continue to exist and shall run to the benefit of that Credit Source and that Credit Source shall be subrogated to the rights of the owners of those Insured Obligations, until all obligations of the Authority to that Credit Source have been paid.

Notwithstanding the foregoing, any provisions of the Bond Legislation which relate to indemnification and the payment of fees and expenses, the payment of the principal of and premium of Series 2018 Bonds at maturity or on a prior redemption date, interest payments and dates thereof, exchange, registration of transfer and registration of Series 2018 Bonds, replacement of mutilated, destroyed, lost or stolen Series 2018 Bonds, the safekeeping and cancellation of Series 2018 Bonds, non-presentment of Series 2018 Bonds, the holding of money in trust, the obligations set forth in the Bond Legislation regarding rebate, and the duties of the Registrar, Authenticating Agent and Paying Agent in connection with all of the foregoing shall remain in effect and be binding upon the Owners, the Registrar, Authenticating Agent and Paying

Agent notwithstanding the release and discharge of the Bond Legislation. The provisions of this Section shall survive the release, discharge and satisfaction of the Bond Legislation.

### **Bonds Not Presented When Due**

If any Series 2018 Bonds are not duly presented for payment when due at maturity or on any prior redemption date, and if money sufficient for the payment of those Series 2018 Bonds is on deposit with the Paying Agent, and, in the case of Series 2018 Bonds to be redeemed, if notice of redemption has been given as provided in the Bond Ordinance, all liability of the Water Authority to the Owners of those Series 2018 Bonds will be discharged, those Series 2018 Bonds will no longer be Outstanding and it will be the duty of the Paying Agent to segregate and to hold such money in trust, without liability for interest thereon, for the benefit of the Owners of those Series 2018 Bonds.

### **Delegated Powers**

The officers of the Water Authority are authorized and directed to take all action from time to time which is necessary or appropriate to effectuate the provisions of the Bond Legislation and the Bonds, including, without limitation, the execution of any credit facility, any liquidity agreement, any remarketing agreement, any qualified exchange agreement, the delivery of a “deemed final” certificate relating to the disclosure document for the Bonds, the publication of a summary of this Bond Ordinance substantially in the form set out in Section 44, the distribution of material related to the Bonds, the printing of the Bonds and the execution of related documents and certificates pertaining to the System, the Bonds, and the delivery of and security for the Bonds, as may be reasonably required by the Underwriters. The officers of the Water Authority are authorized and directed to take all action from time to time which is desirable or necessary for the Water Authority with respect to arbitrage rebate requirements under Section 148(f) of the Code.

The Executive Director of the Water Authority, or successor in interest, is hereby authorized and directed to make such changes or corrections to the procedures established in the Bond Legislation relating to the times of day or the days on which actions are required to be taken, or the persons responsible for particular actions, the form of notice of the occurrence of events, the types and forms of actions required and other similar administrative matters which, in the judgment of the Executive Director, are necessary and appropriate to accomplish the purposes of the Bond Legislation and to provide for the efficient administration of the System and the Bonds. Notice of any such changes or corrections shall be given to all persons affected thereby.

### **Amendment of Ordinance**

The Bond Legislation may be amended by ordinance or resolution of the Board without the consent of Owners but with the consent of any Credit Source providing a Credit Facility which is in effect and which pertains to the Series 2018 Bonds and is affected by the amendment if the Credit Source is not in default in its obligations under the Credit Facility:

(1) To cure any ambiguity, or to cure, correct or supplement any defect or inconsistent provision contained in the Bond Legislation;

(2) To grant to the Owners any additional rights, remedies, powers or authority that may lawfully be granted to them;

(3) To obtain or maintain a rating on the Series 2018 Bonds from any rating agency if the amendment, in the judgment of Bond Counsel, does not materially adversely affect the Owners of the Series 2018 Bonds;

(4) To achieve compliance with federal securities or tax laws; and

(5) To make any other changes in the Bond Legislation which, in the opinion of Bond Counsel, are not materially adverse to the Owners.

#### *Additional Amendments*

Except as provided above, the Bond Legislation may only be amended or supplemented by ordinance or resolution adopted by the Board in accordance with the laws of the State, without receipt by the Water Authority of any additional consideration, but with the written consent of the Owners of a majority of the principal amount of the Series 2018 Bonds then outstanding which are affected by the amendment or supplement (not including any Series 2018 Bonds which are then owned by or for the account of the Water Authority) and of any Credit Source providing a Credit Facility which is in effect affected by the amendment or supplement if the Credit Source is not in default in its obligations under the Credit Facility; provided, however, that no such ordinances or resolutions may have the effect of permitting:

(1) An extension of the maturity of any Series 2018 Bond; or

(2) A reduction in the principal amount of, premium, if any, or interest rate on any Series 2018 Bond; or

(3) The creation of a lien on or a pledge of Net Revenues ranking prior to the lien or pledge of Senior Obligations on Net Revenues; or

(4) A reduction of the principal amount of Series 2018 Bonds required for consent to such amendment or supplement.

## **APPENDIX D**

### **FORM OF OPINION OF BOND COUNSEL**

\_\_\_\_\_, 2018

Albuquerque Bernalillo County Water Utility Authority  
Albuquerque, New Mexico

\$ \_\_\_\_\_  
Albuquerque Bernalillo County Water Utility Authority  
Senior Lien Joint Water and Sewer System Improvement Revenue Bonds,  
Series 2018

Ladies and Gentlemen:

We have acted as bond counsel to the Albuquerque Bernalillo County Water Utility Authority (the “Water Authority”) in connection with the issuance and sale of its \$ \_\_\_\_\_ Senior Lien Joint Water and Sewer System Improvement Revenue Bonds, Series 2018 (the “Bonds”). The Bonds are issued pursuant to the Constitution and laws of the State of New Mexico (the “State”) and Water Authority Ordinance WUA O-18-\_\_ and Water Authority Resolution No. WUA R-18-\_\_ adopted by the Water Authority on January 25, 2017 (the “Bond Ordinance”). Except as expressly defined herein, capitalized terms used herein have the same meanings as such terms have in the Bond Ordinance.

We have examined the laws of the State and the United States of America relevant to the opinions herein, and other proceedings and documents relevant to the issuance by the Water Authority of the Bonds. As to the questions of fact material to our opinion, we have relied upon representations of the Water Authority contained in the certified proceedings and other certifications furnished to us, without undertaking to verify the same by independent investigation.

Based upon the foregoing, and subject to the assumptions and qualifications set forth below, we are of the opinion that, under existing law on the date of this opinion:

1. The Bonds are valid and binding special, limited obligations of the Water Authority under and in accordance with the Bond Ordinance.
2. The Bond Ordinance has been duly authorized, executed and delivered by the Water Authority and the provisions of the Bond Ordinance are valid and binding on the Water Authority.

3. The Bonds are payable as to principal, interest and any prior redemption premium, solely from, and are secured by a pledge (but not an exclusive pledge) of System Net Revenues of the Water Authority, as more fully described in the Bond Ordinance. The owners of the Bonds have no right to have taxes levied by the State or any political subdivision thereof for the payment of principal, interest and any prior redemption premium on the Bonds. The Water Authority does not have taxing power,

4. The Bond Ordinance creates the liens on the System Net Revenues that it purports to create.

5. Under existing laws, regulations, rulings and judicial decisions, interest on the Bonds is excludable from gross income for federal income tax purposes. We are also of the opinion that interest on the Bonds is not a specific preference item for purposes of calculating the alternative minimum tax imposed on individuals under provisions contained in the Internal Revenue Code of 1986, as amended. Although we are of the opinion that interest on the Bonds is excludable from gross income for federal income tax purposes, the accrual or receipt of interest on the Bonds may otherwise affect the federal income tax liability of the recipient. The extent of these other tax consequences will depend upon the recipient's particular tax status or other items of income or deduction. We express no opinion regarding any such consequences.

6. The Bonds and the income from the Bonds are exempt from all taxation by the State or any political subdivision of the State.

The opinions set forth above in paragraph 5 are subject to continuing compliance by the Water Authority with covenants regarding federal tax law contained in the proceedings and other documents relevant to the issuance by the Water Authority of the Bonds. Failure to comply with these covenants may result in interest on the Bonds being included in gross income retroactive to their date of issuance.

The opinions expressed herein are based upon existing legislation as of the date of issuance and delivery of the Bonds, and we express no opinion as of any date subsequent thereto or with respect to any pending legislation.

The obligations of the Water Authority related to the Bonds are subject to the reasonable exercise in the future by the State and its governmental bodies of the police power inherent in the sovereignty of the State and to the exercise by the United States of the powers (including bankruptcy powers) delegated to it by the United States Constitution. The obligations of the Water Authority and the security provided therefor, as contained in the Bond Ordinance, may be subject to general principles of equity which permit the exercise of judicial discretion and are subject to the provisions of applicable bankruptcy, insolvency, reorganization, moratorium or similar laws relating to or affecting the enforcement of creditors' rights generally, now or hereafter in effect.

The foregoing opinions represent our legal judgment based upon a review of existing legal authorities that we deem relevant to render such opinions and are not a guarantee of result.

We are passing upon only those matters set forth in this opinion and are not passing upon the accuracy or completeness of any statement made in connection with any sale of the Bonds or upon any tax consequences arising from the receipt or accrual or interest on, or the ownership of, the Bonds except those specifically addressed in paragraphs 5 and 6 above.

Respectfully submitted,



## **APPENDIX E**

### **FORM OF CONTINUING DISCLOSURE UNDERTAKING**

#### **CONTINUING DISCLOSURE UNDERTAKING**

\$\_\_\_\_\_

**ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY**  
**Senior Lien Joint Water and Sewer System Improvement Revenue Bonds**  
**Series 2018**

This instrument constitutes the written undertaking by the Albuquerque Bernalillo County Water Utility Authority (the "Issuer") for the benefit of the holders of the above-captioned bonds (the "Bonds") required by Section (b)(5)(i) of Securities and Exchange Commission Rule 15c2-12 under the Securities Exchange Act of 1934, as amended (17 C.F.R. Part 240, § 240.15c2-12) (the "Rule"). Capitalized terms used in this undertaking and not otherwise defined in Issuer Ordinance WUA O-18-\_\_ adopted by the Issuer on September \_\_, 2018 (the "Ordinance") shall have the meanings assigned such terms in subsection 3 hereof.

(1) The Issuer undertakes to provide the following information as provided herein:

- (a) Annual Financial Information;
- (b) Audited Financial Statements, if any; and
- (c) Material Event Notices.

(2) (a) The Issuer shall, while any Bonds are Outstanding, provide the Annual Financial Information on or before March 31 of each year (the "Report Date"), beginning in 2019, to EMMA. The Issuer may adjust the Report Date if the Issuer changes its fiscal year by providing written notice of the change of fiscal year and the new Report Date to EMMA provided that the new Report Date shall be 270 days after the end of the new fiscal year and provided further that the period between the final Report Date relating to the former fiscal year and the initial Report Date relating to the new fiscal year shall not exceed one year in duration. It shall be sufficient if the Issuer provides to EMMA the Annual Financial Information by specific reference to documents previously provided to EMMA or filed with the Securities and Exchange Commission and, if such a document is a final official statement within the meaning of the Rule, available from the Municipal Securities Rulemaking Board.

(b) If not provided as part of the Annual Financial Information, the Issuer shall provide the Audited Financial Statements when and if available while any Bonds are Outstanding to EMMA.

(c) If a Material Event occurs while any Bonds are Outstanding, the Issuer shall provide a Material Event Notice in a timely manner not in excess of ten (10) business days after the occurrence of the event, a notice of such occurrence with EMMA. Each Material Event Notice shall be so captioned and shall prominently state the date, title and CUSIP numbers of the Bonds.

(d) The Issuer shall provide in a timely manner to the Municipal Securities Rulemaking Board notice of any failure by the Issuer while any Bonds are Outstanding to provide to EMMA Annual Financial Information, if any, on or before the Report Date.

(3) The following are the definitions of the capitalized terms used herein and not otherwise defined in the Ordinance:

(a) "**Annual Financial Information**" means the financial information (which shall be based on financial statements prepared in accordance with generally accepted accounting principles ("GAAP") for governmental units as prescribed by the Governmental Accounting Standards Board ("GASB")) or operating data with respect to the Issuer, provided at least annually, of the type included in the final official statement with respect to the Bonds; which Annual Financial Information may, but is not required to, include Audited Financial Statements.

(b) "**Audited Financial Statements**" means the Issuer's annual financial statements, prepared in accordance with GAAP for governmental units as prescribed by GASB, which financial statements shall have been audited by such auditor as shall be then required or permitted by the laws of the State.

(c) "**EMMA**" means the Municipal Securities Rulemaking Board's Electronic Municipal Market Access System located on its website at [emma.msrb.org](http://emma.msrb.org).

(d) "**Material Event**" means any of the following events with respect to the Bonds:

- (i) Principal and interest payment delinquencies;
- (ii) Non-payment related defaults, if material;
- (iii) Unscheduled draws on debt service reserves reflecting financial difficulties;
- (iv) Unscheduled draws on credit enhancements reflecting financial difficulties;
- (v) Substitution of credit or liquidity providers, or their failure to perform;
- (vi) adverse tax opinions, the issuance by the Internal Revenue Service of proposed or final determinations of taxability, Notices of Proposed Issue (IRS Form

5701-TEB) or other material notices or determinations with respect to the tax status of the security, or other material events affecting the tax status of the security;

- (vii) modifications to rights of owners of the Bonds, if material;
- (viii) bond calls, if material, or tender offers;
- (ix) defeasances;
- (x) release, substitution or sale of property securing repayment of the Bonds, if material;
- (xi) rating changes;
- (xii) bankruptcy, insolvency, receivership or a similar event with respect to the Issuer or an obligated person;
- (xiii) the consummation of a merger, consolidation, or acquisition involving the Issuer or another obligated person or the sale of all or substantially all of the assets of the Issuer or another obligated person, other than in the ordinary course of business, the entry into a definitive agreement to undertake such an action or the termination of a definitive agreement relating to any such actions, other than pursuant to its terms, if material; and
- (xiv) appointment of a successor or additional trustee, or a change of name of a trustee, if material.

(e) **"Material Event Notice"** means written or electronic notice of a Material Event.

(4) The Issuer shall employ such methods of electronic or physical information transmission as shall be requested or recommended by EMMA, the MSRB or the Securities and Exchange Commission.

(5) The continuing obligation hereunder of the Issuer to provide Annual Financial Information, Audited Financial Statements, if any, and Material Event Notices shall terminate immediately once Bonds no longer are Outstanding. This undertaking or any provision hereof, shall be null and void in the event that the Issuer delivers to EMMA an opinion of nationally recognized bond counsel to the effect that those portions of the Rule which require this undertaking, or any such provision, are invalid, have been repealed retroactively or otherwise do not apply to the Bonds. This undertaking may be amended without the consent of the owners of the Bonds, but only upon the delivery by the Issuer to EMMA of the proposed amendment and an opinion of nationally recognized bond counsel to the effect that such amendment, and giving effect thereto, will not adversely affect the compliance of this undertaking by the Issuer with the Rule.

(6) Any failure by the Issuer to perform in accordance herewith shall not constitute an "Event of Default" under the Bonds and the Ordinance, and the rights and remedies provided by the Ordinance upon the occurrence of an "Event of Default" shall not apply to any such failure; however, owners of the Bonds may sue to enforce performance of the undertakings set forth herein.

(7) *Beneficiaries.* This certificate shall inure solely to the benefit of the Issuer, the Underwriters and owners from time to time of the Bonds, and shall create no rights in any other persons or entity.

DATE: OCTOBER \_\_, 2018

**ALBUQUERQUE BERNALILLO COUNTY  
WATER UTILITY AUTHORITY**

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Chair

# Albuquerque Bernalillo County Water Utility Authority

Proposed Series 2018 Financing  
Discussion

September 19, 2018

## Proposed Series 2018 Joint Water and Sewer System Revenue Bonds

- The Series 2018 bond transaction is expected to be sold at a negotiated pricing on or about October 16, 2018
  - The estimated borrowing rate is 3.07%\*
  - Final maturity of July 2030 (12 year)
  - Issuance of proposed 2018 complies with the Authority's Debt Policy
- The Water Authority's current senior lien bond ratings are (rating meetings held September 17<sup>th</sup>):
  - AA+ Standard and Poor's (Stable Outlook)
  - Aa2 Moody's (Stable Outlook)
  - AA Fitch (Stable Outlook)<sup>(1)</sup>
- The proceeds of the Series 2018 bonds will be used to fund the basic needs assets of the Water Authority

### Projects to be Financed by the Series 2018 Bond Issuance

\$MM	Project	\$MM	Project
\$56.00	General Projects	\$2.00	IT Projects
\$12.00	Special Projects (Clarifiers)	\$2.00	Aquifer Storage & Recovery (Large Scale)
\$9.00	Consolidated Customer Services and Field Operations	\$3.00	Solids Dewatering Plant
<b>\$84 million in total projects to be financed</b>			

(1) Fitch last rated the Water Authority's bonds in 2016. The Water Authority will not be requesting a Fitch rating for the 2018 Bonds.

\* Rates as of 9/11/2018 plus 30 bps. Subject to change.

## Proposed Time Schedule

DATE	ACTION	RESPONSIBLE PARTIES
08/22/2018	First Reading of Bond Ordinance and Confirming Resolution	ABCWUA, RBC, Modrall
08/28/2018	Distribute Draft Bond Purchase Agreement	Underwriters' Counsel
09/03/2018	Publish Notice of Meeting and Intent to Adopt Ordinance in the <i>Albuquerque Journal</i>	Newspaper
09/05/2018	Comments due on Draft of POS, Bond Ordinance, Confirming Resolution and BPA	All
09/12/2018	Distribute Revised Drafts of Bond Ordinance, Confirming Resolution and BPA for Board packets	Modrall, UW Counsel
<b>Week of Sept 17th 2018</b>	<b>Rating Presentations</b>	<b>ABCWUA, RBC, Modrall</b>
<b>09/19/2018</b>	<b>ABCWUA Governing Board adopts Bond Ordinance and Confirming Resolution Delegating Authority to Approve Final Pricing to Delegate</b>	<b>All</b>
09/20/2018	Submit Notice of Adoption of Ordinance and Resolution to the <i>Albuquerque Journal</i> for publication on Saturday, September 22, 2018	Modrall
10/05/2018	Post Preliminary Official Statement for Electronic Distribution	Modrall
10/15/2018	Market Update and Pre-Pricing Call	Underwriters, ABCWUA, RBC
<b>10/16/2018</b>	<b>Bond Pricing &amp; BPA &amp; Pricing Certificate Signed</b>	<b>All</b>
10/17/2018	Delegate Reports Results of Bond Pricing in the Pricing Certificate to Board as Informational Item at ABCWUA Regular Meeting – No Board Action Required.	ABCWUA, RBC, Modrall
10/22/2018	Distribute Draft Closing Documents. Comments due on OS	Modrall
10/23/2018	30-day Limitation of Action Period expires	ABCWUA
10/26/2018	Pre-Closing / Document Signing	All
<b>10/31/2018</b>	<b>Closing via Telephone</b>	<b>All</b>

# Proposed Series 2018 Joint Water and Sewer System Revenue Bonds

## Proposed Series 2018 Financing <sup>(1)</sup>

### Sources & Uses

#### Sources

Bond Proceeds	\$	75,310,000
Bond Premium		9,466,984
<b>Total</b>	<b>\$</b>	<b>84,776,984</b>

#### Uses

Projects	\$	84,000,000
Cost of Issuance		400,000
Other Underwriter's Discount		376,550
Debt Service Fund		434
<b>Total</b>	<b>\$</b>	<b>84,776,984</b>

### Bond Statistics

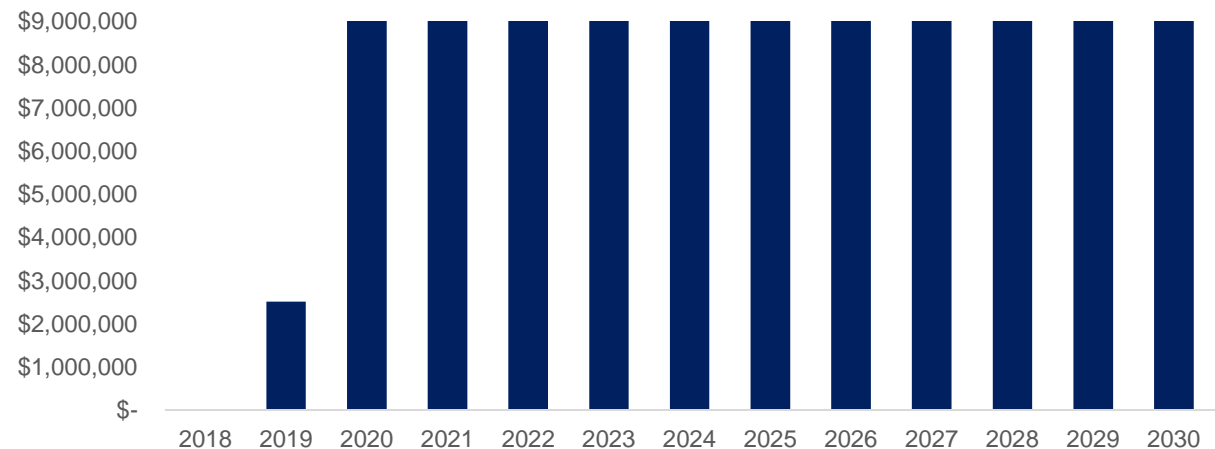
Dated Dated	10/31/18
First Interest	1/1/19
Final Maturity	7/1/30
Arbitrage Yield	2.9232%
True Interest Cost (TIC)	3.0722%
Net Interest Cost (NIC)	3.3131%
Average Coupon	5.0000%

1) - Indicative pricing as of 9/11/2018 + 30bps

Year	Principal	Interest Rate <sup>(1)</sup>	Interest	Debt Service
2019			\$ 2,520,793	\$ 2,520,793
2020	\$ 5,295,000	5.000%	3,765,500	9,060,500
2021	5,565,000	5.000%	3,500,750	9,065,750
2022	5,845,000	5.000%	3,222,500	9,067,500
2023	6,135,000	5.000%	2,930,250	9,065,250
2024	6,445,000	5.000%	2,623,500	9,068,500
2025	6,765,000	5.000%	2,301,250	9,066,250
2026	7,105,000	5.000%	1,963,000	9,068,000
2027	7,460,000	5.000%	1,607,750	9,067,750
2028	7,835,000	5.000%	1,234,750	9,069,750
2029	8,225,000	5.000%	843,000	9,068,000
2030	8,635,000	5.000%	431,750	9,066,750
<b>Total</b>	<b>\$ 75,310,000</b>		<b>\$ 26,944,793</b>	<b>\$ 102,254,793</b>

1) - Preliminary, subject to change

## 2018 Proposed Debt Service





## Proposed Aggregate Debt Service

Period Ending (July 1)	Outstanding Senior Lien Debt Service	Proposed Senior Lien 2018 Debt Service	Combined Senior Lien Debt Service	Subordinate Debt Service	Combined Total Debt Service
2018	\$69,498,264		\$69,498,264	\$11,958,654	\$81,456,918
2019	69,500,515	2,520,793	72,021,308	11,730,628	83,751,936
2020	63,685,516	9,060,500	72,746,016	11,459,065	84,205,082
2021	64,084,518	9,065,750	73,150,268	11,067,927	84,218,195
2022	57,759,769	9,067,500	66,827,269	10,856,816	77,684,085
2023	58,106,107	9,065,250	67,171,357	10,505,530	77,676,887
2024	53,042,859	9,068,500	62,111,359	10,145,567	72,256,926
2025	47,801,610	9,066,250	56,867,860	9,782,179	66,650,039
2026	42,613,361	9,068,000	51,681,361	715,367	52,396,728
2027	31,943,413	9,067,750	41,011,163	715,130	41,726,293
2028	23,792,862	9,069,750	32,862,612	714,718	33,577,330
2029	23,802,600	9,068,000	32,870,600	714,127	33,584,727
2030	16,911,262	9,066,750	25,978,012	725,687	26,703,699
2031	17,000,105		17,000,105		17,000,105
2032	16,854,738		16,854,738		16,854,738
2033	16,849,488		16,849,488		16,849,488
2034	8,484,663		8,484,663		8,484,663
2035	2,427,625		2,427,625		2,427,625
2036	2,423,813		2,423,813		2,423,813
2037	1,350,500		1,350,500		1,350,500
2038	1,349,250		1,349,250		1,349,250
<b>TOTAL</b>	<b>\$689,282,835</b>	<b>\$102,254,793</b>	<b>\$791,537,628</b>	<b>\$91,091,396</b>	<b>\$882,629,024</b>

# Weekly Municipal Market Update



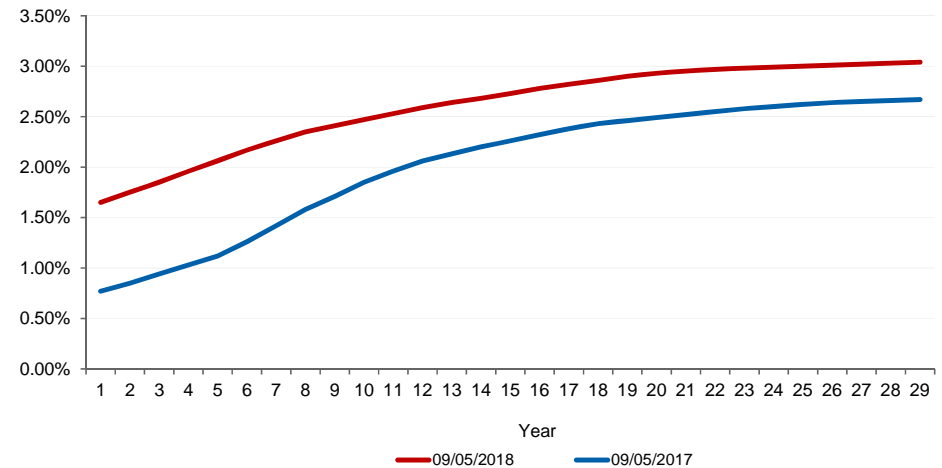
**RBC Capital Markets**

# Long-Term Market

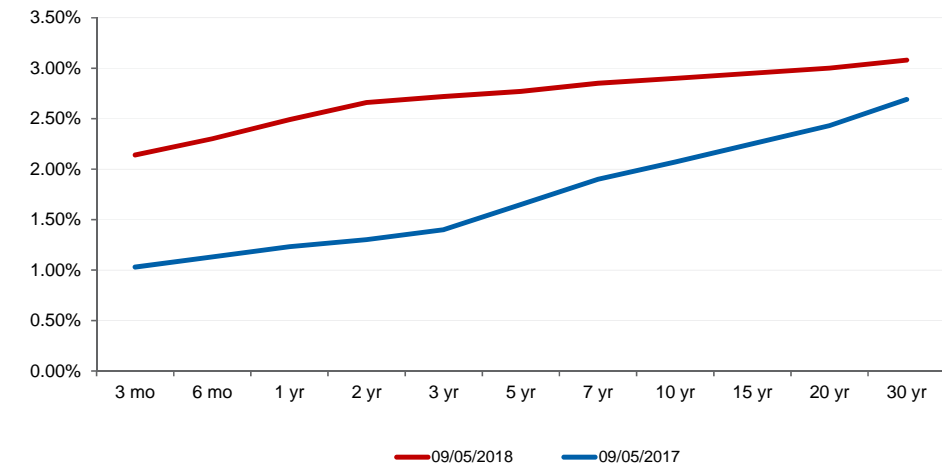
## Market Overview

- The stronger than expected August employment report drove rates decidedly higher at the end of last week's holiday- shortened week, overtaking any market concerns over trade and domestic political risk. By the week's close, US Treasuries were eight basis points higher across the yield curve. Municipals generally kept pace with the move in Treasuries despite a very light post-holiday new issue calendar. The Municipal Market Data AAA yield closed the week ten basis point higher in the two year range, six basis points higher in the five year range, five basis point higher in the ten year range and eight basis points higher in thirty years. Municipal/Treasury yield ratios closed the week generally unchanged.

### Municipal GO "AAA" MMD Yield Curve Changes



### U.S. Treasury Yield Curve Changes



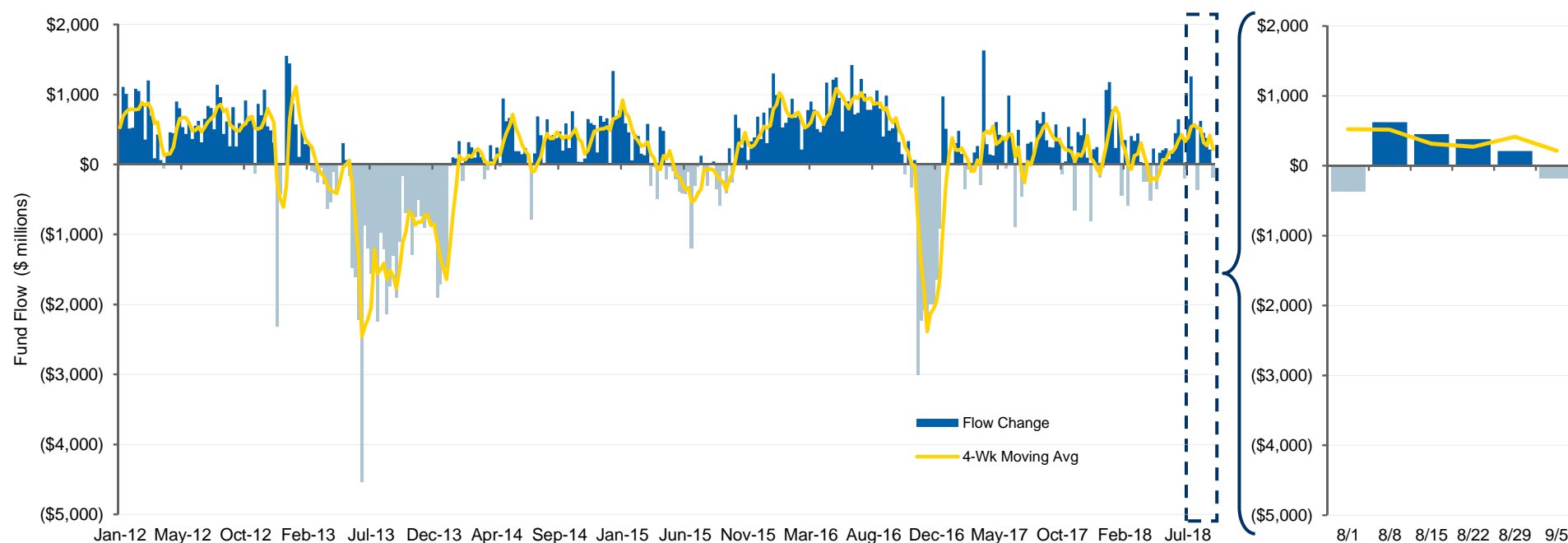
# Municipal Market Fund Flows

## Municipal bond funds see outflows

According to data from Lipper, for the week ended September 5, 2018, weekly municipal bond funds reported \$181 million of outflows, after the previous week's \$212 million of inflows

- Long-term muni bond funds experienced outflows, losing \$128 million in the latest week, after inflows of \$369 million in the previous week
- Four week moving average is currently positive at \$215 million, down from last week's number of \$416 million

## Lipper Municipal Fund Flows

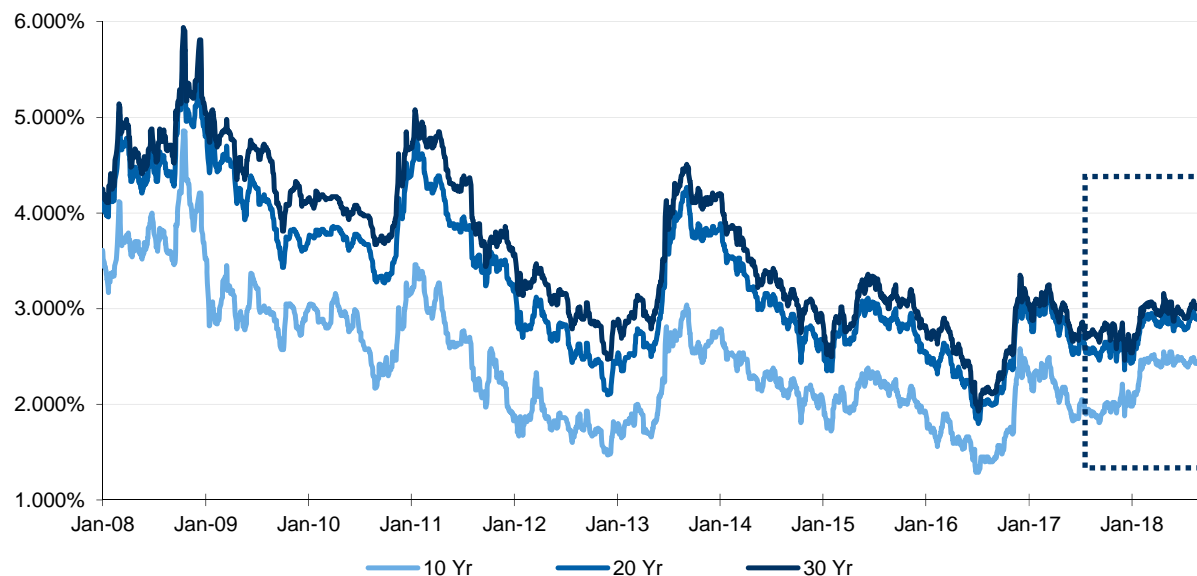


Period ended September 5, 2018

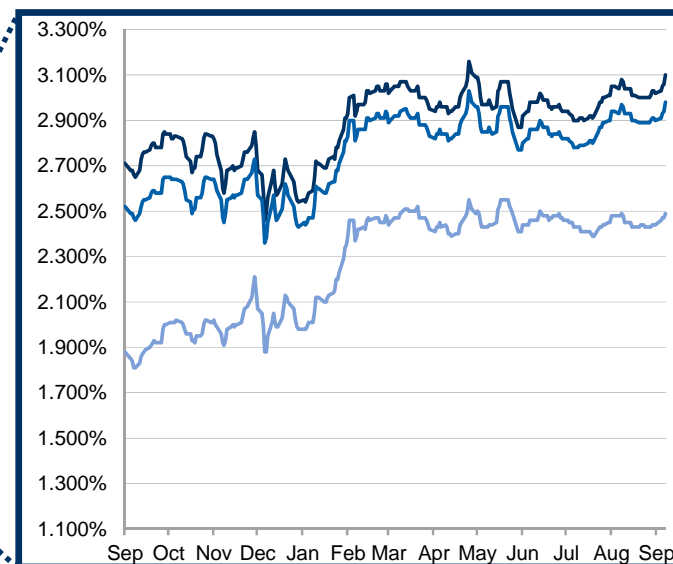
# Current Municipal Market Conditions: "AAA" MMD

After closing at 3.02% the previous week, the 30-year "AAA" MMD increased 8 bps from August 31 – September 7, closing at the current rate of 3.10%

"AAA" MMD January 1, 2008 to Present



Shift in "AAA" MMD Since September 2017



January 1, 2008 to Present

	10 Year	20 Year	30 Year
Maximum	4.860%	5.740%	5.940%
Minimum	1.290%	1.800%	1.930%
Current	2.490%	2.980%	3.100%

Shift in 30-year "AAA" MMD

2011	2012	2013	2014	2015	2016	2017
-1.130%	-0.740%	1.330%	-1.340%	-0.010%	0.270%	-0.510%

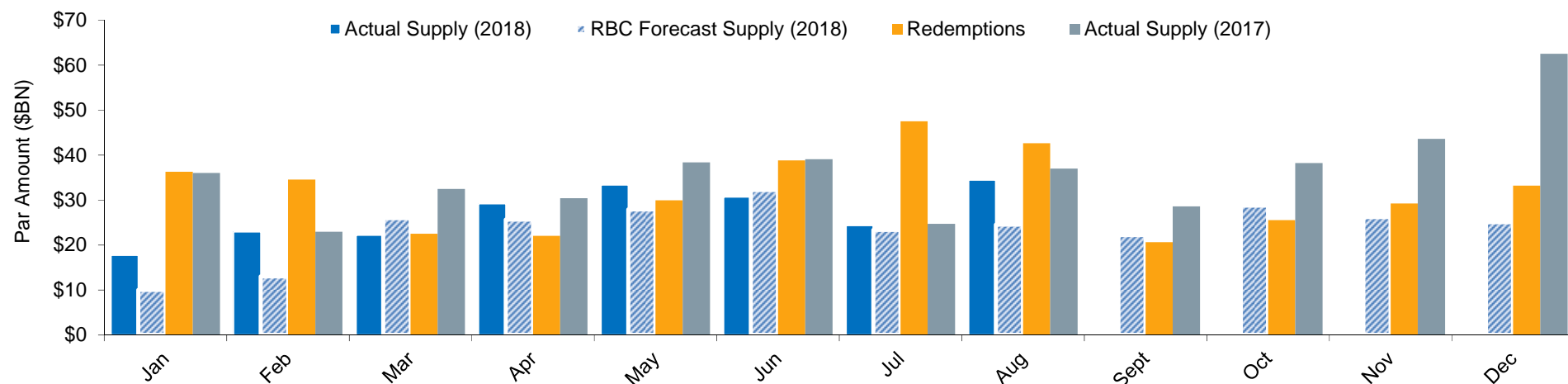
September 1, 2017 to Present

	10 Year	20 Year	30 Year
Maximum	2.550%	3.030%	3.160%
Minimum	1.810%	2.360%	2.460%
Average	2.277%	2.755%	2.884%

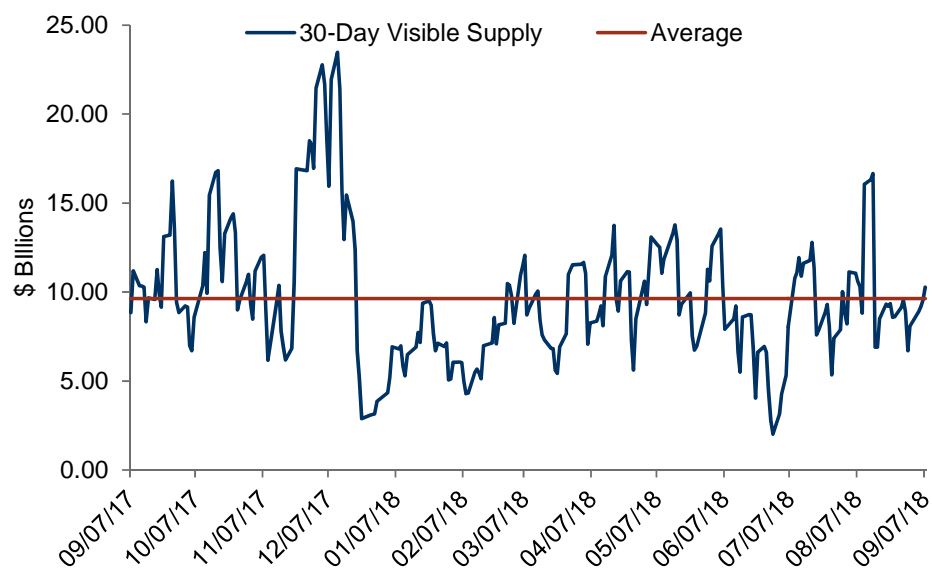
Source: TM3, Thomson Reuters  
10, 20, and 30 year "AAA" MMD shown to represent different average lives of municipal transactions  
Rates as of September 7, 2018

# Overview of Municipal Supply

## Monthly Projected Supply and Redemptions



## 30-Day Visible Supply

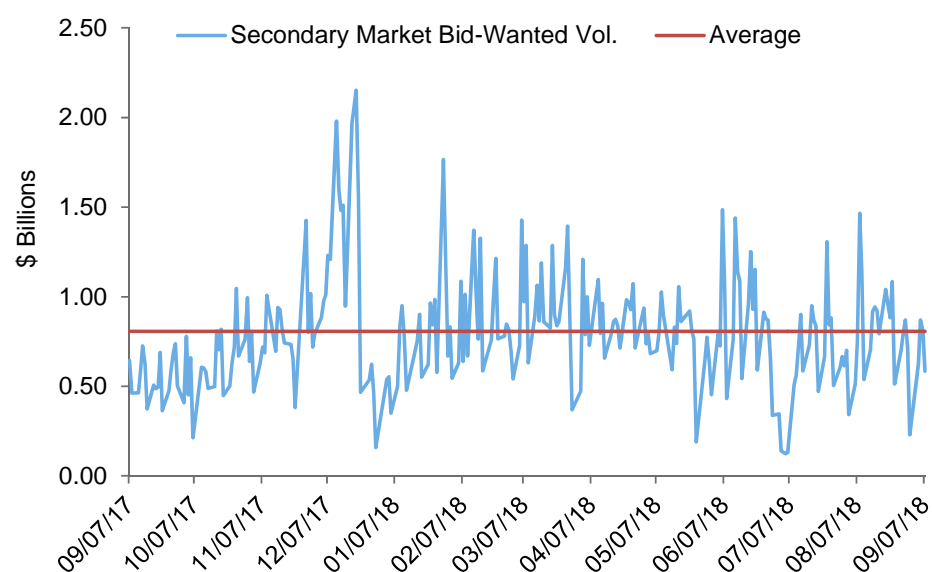


### Summary Statistics (Billions)

Max	\$23.47	Min	\$2.02	Avg.	\$9.64	Curr.	\$10.28
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Source: Bloomberg

## Secondary Market Bid-Wanted Volume



### Summary Statistics (Billions)

Max	\$2.15	Min	\$0.12	Avg.	\$0.81	Curr.	\$0.58
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# Bond Buyer 20 General Obligation Bond Index

## 57 Year Historical Perspective

Bond Buyer 20 GO Index since January 1961



% of Time in Each Range Since 1961

Yield Range		
Less than 3.50%	10.10%	<div></div>
3.50% - 4.00%	10.43%	<div></div>
4.01% - 4.50%	10.80%	<div></div>
4.51% - 5.00%	10.07%	<div></div>
5.01% - 5.50%	14.03%	<div></div>
5.51% - 6.00%	9.77%	<div></div>
6.01% - 6.50%	7.57%	<div></div>
6.51% - 7.00%	6.90%	<div></div>
7.01% - 7.50%	6.23%	<div></div>
7.51% - 8.00%	3.67%	<div></div>
Greater than 8.00%	10.43%	<div></div>
<b>Total</b>	<b>100.00%</b>	

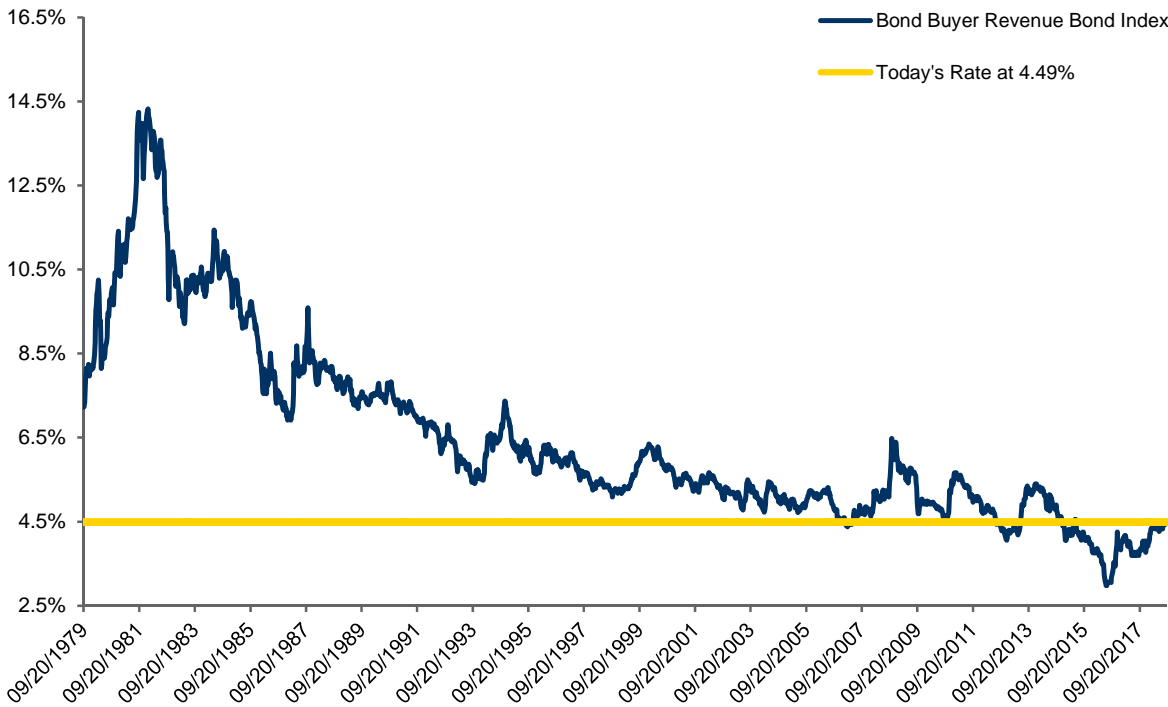
Source: Bloomberg as of September 6, 2018  
Weekly yields and indexes released by the Bond Buyer. Updated every Thursday at approximately 6:00pm EST. 20 Bond General Obligation Yield with 20 year maturity, rated Aa2 by Moody's Arithmetic Average of 20 bonds' yield to maturity.

Today's 3.98% level is lower than 82.50% of historical rates since January 1961

# Bond Buyer Revenue Bond Index

## 38 Year Historical Perspective

Bond Buyer Revenue Index since September 1979



% of Time in Each Range Since 1979

Yield Range	
Less than 3.50%	1.08%
3.50% - 4.00%	3.49%
4.01% - 4.50%	7.97%
4.51% - 5.00%	12.44%
5.01% - 5.50%	20.07%
5.51% - 6.00%	12.30%
6.01% - 6.50%	8.31%
6.51% - 7.00%	3.49%
7.01% - 7.50%	6.15%
7.51% - 8.00%	4.92%
Greater than 8.00%	19.77%
Total	100.00%

Source: Bloomberg as of September 6, 2018  
Weekly yields and indexes released by the Bond Buyer. Updated every Thursday at approximately 6:00pm EST. 25 Revenue Bond Yield with 30 year maturity, rated A1 by Moody's and A+ by S&P Arithmetic Average of 25 bonds' yield to maturity.

Today's 4.49% level is lower than 87.80% of historical rates since September 1979



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Meeting Date: September 19, 2018  
Staff Contact: Stan Allred, Chief Financial Officer

**TITLE:** R-18-20 – Confirming Approval of the Issuance of Albuquerque Bernalillo County Water Utility Authority (“Water Authority”) Senior Lien Joint Water and Sewer System Revenue Bonds, Series 2018 in one Series in the Principal Amount not to exceed \$83,000,000 (the Bonds”); and Ratifying Action Previously Taken in Connection Therewith

**ACTION:** Recommend Approval

**SUMMARY:**

This legislation is the Confirming Resolution for the proposed Senior Lien Joint Water Revenue Bonds, Series 2018. It was prepared by the Modrall Law Firm as Bond Counsel for this transaction. This resolution establishes certain bond final pricing details; provides for the payment of the cost of issuing the bonds; approves disclosure and other documents relating to the bonds; and ratifies previous action taken in connection with the sale of the bonds.

Pending approval of Ordinance O-18-7, this Resolution authorize the Water Authority issue new money for basic needs improvements as approved by the Board in the decade plan and annual capital budget.. This Confirming Resolution approves the terms, sale price, interest rates, redemption features and other matters with respect to the Bonds.

**FISCAL IMPACT:**

Based upon current market conditions the new money financing will have a 12 year final maturity (July 1, 2030) with annual debt service of approximately \$8.85 million beginning in fiscal year 2020. There will be interest only payment in fiscal year 2019. Gross Revenues, all income and revenues directly or indirectly derived by the Water Authority from the operation and use of the System less operation and maintenance expenses, are pledged as security for these bonds, similar to the Water Authority’s prior debt issuances.

**COMMENTS:**

This confirming resolution is required for any bond issuance under the approved Bond Ordinance and requires Water Authority Board approval.

Current Senior Lien Bond ratings for this issue are as follows: AA+ Standard and Poor’s, Aa2 Moody’s. Fitch has a AA rating on outstanding bond prior to 2016 but the Authority will not be requesting a rating from Fitch for the 2018 Bonds or future debt issuances.

**BILL NO. R-18-20**

SECTION 3. The Confirming Resolution shall be in full force and effect immediately upon adoption.

1           SECTION 4. Pursuant to the general laws of the State, the title and general  
2 summary of the subject matter contained in the Confirming Resolution shall be published  
3 in substantially the following form:

4           **ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY**

5                               **LEGAL NOTICE**

6           Notice is hereby given that the Board of Directors of Albuquerque Bernalillo County  
7 Water Utility Authority did on the 19<sup>th</sup> day of September, 2018, adopt a resolution entitled:

8           **CONFIRMING APPROVAL OF THE ISSUANCE OF ALBUQUERQUE**  
9           **BERNALILLO COUNTY WATER UTILITY AUTHORITY (THE "WATER**  
10           **AUTHORITY") SENIOR LIEN JOINT WATER AND SEWER SYSTEM**  
11           **IMPROVEMENT REVENUE BONDS, SERIES 2018 IN ONE OR MORE**  
12           **SERIES IN THE AGGREGATE PRINCIPAL AMOUNT NOT TO EXCEED**  
13           **\$83,000,000 (THE "BONDS"); AND RATIFYING ACTION PREVIOUSLY**  
14           **TAKEN IN CONNECTION THEREWITH.**

15           The Confirming Resolution authorizes the issuance of the Bonds. Complete  
16 copies of the Confirming Resolution are available for public inspection during normal and  
17 regular business hours at the offices of the Water Authority, One Civic Plaza, NW,  
18 Albuquerque, New Mexico.

19           Dated this 19<sup>th</sup> day of September, 2018.

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Meeting Date: September 19, 2018  
Staff Contact: Stan Allred, Chief Financial Officer

**TITLE: R-18-24 Approving Fiscal Year 2018 Unaudited Fourth Quarter  
Financial Report Year Ending June 30, 2018**

**ACTION: Recommend Approval**

**SUMMARY:**

Submitted to the Board for review and information are the unaudited financial reports for the fiscal year ending June 30, 2018. The reports provide a year-to-date comparison between the approved FY18 budget and unaudited actual revenues and expenses through June 30th. As with any unaudited figures, this information is subject to change.

Fund 21 General Operating Fund

Revenues:

Fourth Quarter year-to-date FY18 rate unaudited revenues are \$10.4 million above the actuals for FY17. This revenue increase includes increased revenue from water revenue of \$3.4 million, and wastewater revenue \$7.0 million. The FY18 rate revenues are up from the FY17 revenues due to an increase in consumption and the FY18 wastewater revenue rate adjustment. Total unaudited revenues, which include rate and other miscellaneous revenue, are \$8.6 million above the FY18 budgeted amount. As of June 30, 2018, the average GCPD was 128.

Fourth Quarter year-to-date FY18 unaudited other revenue, which includes miscellaneous revenue, is \$1.5 million above the actuals for FY17. Approved budget revenues amounts were derived with the expectation of very limited growth in the service area for the next several years coupled with a projected GCPD level of 135.

Expenses:

Fourth Quarter year-to-date FY18 total expenses are \$10.4 million above the actuals for FY17. This increase is mainly due to the increase in the transfer for debt service payments and transfer to capital of \$9.5 million and the remaining \$0.9 million is due to minimal increases in operating expenses. The unaudited expenses at June 30, 2018, are \$6.3 million under the FY18 budgeted amounts.

Ending FY18 working capital or fund balance is \$34.2 million, of which \$7.0 million is held for rate reserves; compared to a beginning balance in FY18 of \$13.7 million. The fund balance trend has reversed as planned.

**FISCAL IMPACT:**

The costs of maintaining the utility are primarily fixed in nature and the revenue requirements for operating, debt service payments, reserves, and debt service coverage must be met. The FY18 financials are currently being audited by the Authority's external Auditors REDW. An entrance conference has taken place and the audit is ongoing and the figures are subject to change.

The Water Authority will continue to control operating expenses to offset any reductions in revenue. The Water Authority also continues to add an additional \$2 million a year to the Rate Reserve. The balance at the end of FY18 is \$9.0 million. This extra reserve was established by ordinance to serve as a buffer in the event of an unexpected revenue shortfall due to significant swings in consumption.

# ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY

BILL NO. R-18-24

**1 RESOLUTION**  
**2 APPROVING FISCAL YEAR 2018 UNAUDITED FOURTH QUARTER FINANCIAL**  
**3 REPORT YEAR ENDING JUNE 30, 2018**

**4** WHEREAS, the Water Authority Board has developed a budget for FY2018; and  
**5** WHEREAS, the unaudited fourth quarter report has been reviewed and approved  
**6** to ensure the accuracy of the beginning balances used for the FY2019 budget; and

**7** WHEREAS, it is hereby certified that the contents in this unaudited report are true  
**8** and correct to the best of our knowledge and that this report depicts all funds for FY2018.

**9** BE IT RESOLVED BY THE WATER AUTHORITY:

**10** The Water Authority Board approves the unaudited fourth quarter report for  
**11** FY2018 and respectfully requests approval from the Local Government Division of the  
**12** Department of Finance and Administration.

[+Bracketed Material+] - New  
[-Bracketed Material-] - Deletion

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# Albuquerque Bernalillo County Water Utility Authority

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To: Stan Allred, Chief Financial Officer  
From: Susan Lander, Fiscal Officer  
Date: September 10, 2018  
Re: FY18 YEAR-END FINANCIAL REPORTS – UNAUDITED

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Attached are the FY18 year-end financial reports for the Water Authority operating and CIP funds. This report includes:

1.	Revenue & Expense Analysis - Fund 21	p. 1
2.	Revenue & Expense Analysis - Fund 21 – June 2018	p. 2
3.	Revenue & Expense Analysis – Fund 21 – 4th Quarter FY18	p. 3
4.	All Funds – Ending Cash Balances	p. 4
5.	Department Summary Budget with Projection - Fund 21	p. 5
6.	Overview - Funds 21 and 31	p. 12
7.	Overview - Plant & Field Operations	p. 13
8.	Precipitation Chart	p. 14
9.	Monthly Water Production	p. 16
10.	CIP Actual and Projected Expenses	p. 17
11.	Debt Service Fund 31	p. 22

NOTE: The FY18 information is UNAUDITED.

If you have any questions about specific program(s) and what assumptions were used, please call me at 289-3036.

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# Albuquerque Bernalillo County Water Utility Authority

## General Fund - 21 - Revenue and Expense Analysis - FY18 Month Ending June 2018 - Unaudited

	FY17 YTD	FY18 YTD	FY18 BUDGET	FY18 PROJECTION	BUDGET VS. PROJECTION
<b>REVENUES</b>					
<b>Rate:</b>					
Water Service	105,182,785	105,695,902	90,578,000	105,696,000	15,118,000
Water Facilities Rehab	34,517,906	37,325,738	32,402,000	37,326,000	4,924,000
Wastewater Service	41,644,324	42,622,130	62,829,000	42,622,000	(20,207,000)
Wastewater Facilities Rehab	27,456,726	33,456,330	25,562,000	33,456,000	7,894,000
Hookups/CIA	387,715	449,807	375,000	450,000	75,000
Water Resources Mgmt.	4,362,949	4,417,899	4,500,000	4,418,000	(82,000)
<b>Total Rate</b>	<b>213,552,405</b>	<b>223,967,806</b>	<b>216,246,000</b>	<b>223,968,000</b>	<b>7,722,000</b>
<b>Other:</b>					
SW Admin Fee	1,401,000	1,480,000	1,480,000	1,480,000	-
DMD Admin Fee	349,000	348,000	348,000	348,000	-
CIP Employees	792,961	942,854	1,014,000	943,000	(71,000)
Interest	86,073	321,807	100,000	322,000	222,000
PNM Pass Thru	(741)	(30)	-	-	-
Miscellaneous	1,757,030	2,826,430	2,077,000	2,826,000	749,000
<b>Total Other</b>	<b>4,385,323</b>	<b>5,919,061</b>	<b>5,019,000</b>	<b>5,919,000</b>	<b>900,000</b>
<b>TOTAL RATE &amp; OTHER</b>	<b>217,937,728</b>	<b>229,886,867</b>	<b>221,265,000</b>	<b>229,887,000</b>	<b>8,622,000</b>
<b>Franchise:</b>					
Franchise Fee City	-	-	-	-	-
Franchise Fee Valley	-	-	-	-	-
Franchise Fee Rio Rancho	-	-	-	-	-
Franchise Fee Los Ranchos	-	-	-	-	-
<b>Total Franchise</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL REVENUES</b>	<b>217,937,728</b>	<b>229,886,867</b>	<b>221,265,000</b>	<b>229,887,000</b>	<b>8,622,000</b>
Beg Wkg Cap Excl Gasb	6,355,930 a)	13,666,579 b)	13,666,579 b)	13,666,579 b)	
<b>TOTAL REVENUES &amp; BWC</b>	<b>224,293,658</b>	<b>243,553,446</b>	<b>234,931,579</b>	<b>243,553,579</b>	
<b>EXPENSES</b>					
Water Authority Administration	2,726,163	3,138,653	2,792,000	3,139,000	(347,000)
Risk	4,239,454	3,613,847	4,523,000	3,614,000	909,000
Legal	459,035	863,483	703,000	863,000	(160,000)
Human Resources	1,313,201	1,471,627	1,551,875	1,472,000	79,875
Finance	3,893,669	3,864,753	4,004,000	3,865,000	139,000
Customer Services	8,587,494	8,678,878	9,112,000	8,679,000	433,000
Information Technology	7,072,446	6,996,812	7,131,000	6,997,000	134,000
Wastewater Plant	10,747,375	10,975,719	11,680,000	10,976,000	704,000
SJC Water Treatment Plant	3,415,003	3,477,591	3,639,000	3,478,000	161,000
Groundwater System	5,985,005	6,284,141	6,427,000	6,284,000	143,000
Wastewater Collection	6,539,779	6,823,750	6,758,000	6,824,000	(66,000)
Water Field Operations	19,134,162	18,152,429	20,085,125	18,152,000	1,933,125
Compliance	4,512,527	4,241,785	5,400,000	4,242,000	1,158,000
Planning & Engineering	2,870,760	2,958,044	3,342,000	2,958,000	384,000
Water Resources	3,586,769	3,630,882	3,920,000	3,631,000	289,000
Power & Chemicals	19,940,014	20,612,342	20,232,028	20,612,000	(379,972)
Taxes	338,267	262,367	656,902	262,000	394,902
Overhead	1,737,054	2,110,495	2,403,070	2,110,000	293,070
San Juan Chama	2,377,966	2,109,275	2,247,000	2,109,000	138,000
Interfund Transfers	91,628,000	101,158,000	101,158,000	101,158,000	-
<b>TOTAL EXPENSES</b>	<b>201,104,144</b>	<b>211,424,873</b>	<b>217,765,000</b>	<b>211,425,000</b>	<b>6,340,000</b>
Year-End Adjustments	1,522,935			2,075,160	
Rate Reserve	8,000,000	7,000,000	7,000,000	7,000,000	
Working Capital Balance	13,666,579	25,128,573	10,166,579	25,128,579	
<b>ENDING Working Capital Balance</b>	<b>13,666,579 a)</b>	<b>25,128,573 b)</b>	<b>10,166,579 b)</b>	<b>34,203,739 b)</b>	

a) audited b) unaudited per CAFR



# Albuquerque Bernalillo County Water Utility Authority

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## General Fund - 21 - Revenue and Expense Analysis- FY18 Month Ending June 30, 2018 - Unaudited

	<b>JUNE 2018</b>
<b>REVENUES</b>	
<b>Rate:</b>	
Water Service	25,531,083
Water Facilities Rehab	3,621,881
Wastewater Service	3,700,773
Wastewater Facilities Rehab	2,887,612
Hookups/CIA	32,387
Water Resources Mgmt.	512,851
<b>Total Rate</b>	<b>36,286,587</b>
<b>Other:</b>	
SW Admin Fee	246,667
DMD Admin Fee	58,000
CIP Employees	82,601
Interest	45,473
PNM Pass Thru	(30)
Miscellaneous	-80,917
<b>Total Other</b>	<b>351,794</b>
<b>TOTAL RATE &amp; OTHER</b>	<b>36,638,381</b>
<b>Franchise:</b>	
Franchise Fee City	-
Franchise Fee Valley	-
Franchise Fee Rio Rancho	-
Franchise Fee Los Ranchos	-
<b>Total Franchise</b>	<b>-</b>
<b>TOTAL REVENUES</b>	<b>36,638,381</b>
<b>EXPENSES</b>	
Water Authority Administration	467,552
Risk	306,032
Legal	208,232
Human Resources	176,045
Finance	439,879
Customer Services	1,029,609
Information Technology	975,720
Wastewater Plant	1,245,973
SJC Water Treatment Plant	433,480
Groundwater System	772,311
Wastewater Collection	840,654
Water Field Operations	2,007,864
Compliance	515,702
Planning & Engineering	321,352
Water Resources	454,550
Power & Chemicals	3,698,585
Taxes	34,178
Overhead	(318,660)
San Juan Chama	343,662
Interfund Transfers	8,159,000
<b>TOTAL EXPENSES</b>	<b>22,111,720</b>



# Albuquerque Bernalillo County Water Utility Authority

## General Fund - 21 - Revenue and Expense Analysis- FY18 Quarter Ending June 30, 2018 - Unaudited

	APR 2018	MAY 2018	JUNE 2018	TOTAL 4TH QTR
<b>REVENUES</b>				
<b>Rate:</b>				
Water Service	8,174,491	9,171,703	25,531,083	42,877,277
Water Facilities Rehab	2,992,183	3,232,398	3,621,881	9,846,462
Wastewater Service	3,718,209	3,791,905	3,700,773	11,210,887
Wastewater Facilities Rehab	2,865,719	2,866,482	2,887,612	8,619,813
Hookups/CIA	49,945	36,920	32,387	119,252
Water Resources Mgmt.	327,478	398,133	512,851	1,238,462
<b>Total Rate</b>	<b>18,128,025</b>	<b>19,497,541</b>	<b>36,286,587</b>	<b>73,912,153</b>
<b>Other:</b>				
SW Admin Fee	123,333	123,333	246,667	493,333
DMD Admin Fee	29,000	29,000	58,000	116,000
CIP Employees	70,676	75,357	82,601	228,634
Interest	37,453	42,274	45,473	125,200
PNM Pass Thru	-	-	(30)	(30)
Miscellaneous	229,240	304,245	(80,917)	452,568
<b>Total Other</b>	<b>489,702</b>	<b>574,209</b>	<b>351,794</b>	<b>1,415,705</b>
<b>TOTAL RATE &amp; OTHER</b>	<b>18,617,727</b>	<b>20,071,750</b>	<b>36,638,381</b>	<b>75,327,858</b>
<b>Franchise:</b>				
Franchise Fee City	-	-	-	-
Franchise Fee Valley	-	-	-	-
Franchise Fee Rio Rancho	-	-	-	-
Franchise Fee Los Ranchos	-	-	-	-
<b>Total Franchise</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL REVENUES</b>	<b>18,617,727</b>	<b>20,071,750</b>	<b>36,638,381</b>	<b>75,327,858</b>
<b>EXPENSES</b>				
Water Authority Administration	150,176	283,627	467,552	901,355
Risk	355,395	182,122	306,032	843,549
Legal	61,932	19,200	208,232	289,364
Human Resources	118,210	107,940	176,045	402,195
Finance	272,618	336,272	439,879	1,048,769
Customer Services	669,886	678,995	1,029,609	2,378,490
Information Technology	690,476	409,469	975,720	2,075,665
Wastewater Plant	799,571	943,252	1,245,973	2,988,796
SJC Water Treatment Plant	262,534	272,404	433,480	968,418
Groundwater System	442,278	503,612	772,311	1,718,201
Wastewater Collection	542,336	574,421	840,654	1,957,411
Water Field Operations	1,231,918	1,396,750	2,007,864	4,636,532
Compliance	331,253	366,913	515,702	1,213,868
Planning & Engineering	221,557	234,658	321,352	777,567
Water Resources	386,066	234,297	454,550	1,074,913
Power & Chemicals	1,091,885	2,083,585	3,698,585	6,874,055
Taxes	16,711	25,423	34,178	76,312
Overhead	100,970	263,969	(318,660)	46,279
San Juan Chama	165,565	-	343,662	509,227
Interfund Transfers	8,159,000	8,159,000	8,159,000	24,477,000
<b>TOTAL EXPENSES</b>	<b>16,070,337</b>	<b>17,075,909</b>	<b>22,111,720</b>	<b>55,257,966</b>



# Albuquerque Bernalillo County Water Utility Authority

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**Water Utility Authority**  
**All Funds - Ending Cash Balances**  
Fiscal Year 2018 As of 06/30/2018 - Unaudited

Fund 21 - General Fund - Rate Reserve	7,000,000
Fund 21 - General Fund - Unreserved	34,203,739
<b>Fund 21 - General Fund Total</b>	<b>41,203,739</b>
Fund 28 - CIP Rehab Fund	39,386,938
Fund 29 - CIP Growth Fund	21,088,202
<b>CIP Funds Total</b>	<b>60,475,140</b>
<b>Fund 31 - Debt Service Fund</b>	<b>56,420,483</b>
<b>ALL FUNDS TOTAL</b>	<b>158,099,362</b>



# Albuquerque Bernalillo County Water Utility Authority

## Water Utility Authority Summary Budget with Projections Fiscal Year 2018 As of 06/30/2018 - Unaudited

Fund: 21

Division				Remaining	Budget to
Department	Budget	Actual	Projected	Budget	Actual
					% Expended
<b>Administration</b>					
<b>Executive Director</b>					
Wages & Benefits	697,003	709,587	-	(12,584)	101.81
Wages Overtime	-	2,115	-	(2,115)	0.00
Operating Expenses	741,997	951,675	-	(209,678)	128.26
Total Executive Director	1,439,000	1,663,377	-	(224,377)	115.59
<b>COOs office</b>					
Wages & Benefits	1,058,306	1,030,919	-	27,387	97.41
Wages Overtime	-	7,586	-	(7,586)	0.00
Operating Expenses	294,694	436,771	-	(142,077)	148.21
Total COOs office	1,353,000	1,475,276	-	(122,276)	109.04
<b>Risk</b>					
Wages & Benefits	607,300	484,196	-	123,104	79.73
Wages Overtime	-	-	-	-	0.00
Operating Expenses	3,915,700	3,129,651	-	786,049	79.93
Total Risk	4,523,000	3,613,847	-	909,153	79.90
<b>Legal</b>					
Wages & Benefits	181,700	172,090	-	9,610	94.71
Operating Expenses	521,300	691,393	-	(170,093)	132.63
Total Legal	703,000	863,483	-	(160,483)	122.83
<b>Human Resources</b>					
Wages & Benefits	1,394,716	1,327,558	-	67,158	95.18
Wages Overtime	-	976	-	(976)	0.00
Operating Expenses	157,159	143,093	-	14,066	91.05
Total Human Resources	1,551,875	1,471,627	-	80,248	94.83
Total Administration	9,569,875	9,087,610	-	482,265	94.96
<b>Financial/ Business Services</b>					
<b>Finance</b>					
Wages & Benefits	2,747,779	2,583,031	-	164,748	94.00
Wages Overtime	-	14,217	-	(14,217)	0.00
Operating Expenses	1,256,221	1,267,505	-	(11,284)	100.90
Total Finance	4,004,000	3,864,753	-	139,247	96.52
<b>Customer Services &amp; Billing</b>					
Wages & Benefits	2,774,009	2,586,763	-	187,246	93.25
Wages Overtime	-	2,634	-	(2,634)	0.00
Operating Expenses	1,954,991	1,755,442	-	199,549	89.79
Total Customer Services & Billing	4,729,000	4,344,839	-	384,161	91.88



# Albuquerque Bernalillo County Water Utility Authority

## Water Utility Authority Summary Budget with Projections Fiscal Year 2018 As of 06/30/2018 - Unaudited

Fund: 21

Division				Remaining	Budget to
Department	Budget	Actual	Projected	Budget	Actual
<b>Customer Service Field</b>					
Wages & Benefits	3,531,028	3,488,588	-	42,440	98.80
Wages Overtime	130,265	167,916	-	(37,651)	128.90
Operating Expenses	721,707	677,535	-	44,172	93.88
Total Customer Service Field	4,383,000	4,334,039	-	48,961	98.88
<b>Information Technology</b>					
Wages & Benefits	3,300,475	3,020,580	-	279,895	91.52
Wages Overtime	-	302	-	(302)	0.00
Operating Expenses	3,830,525	3,975,930	-	(145,405)	103.80
Total Information Technology	7,131,000	6,996,812	-	134,188	98.12
Total Financial/Business Services	20,247,000	19,540,443	-	706,557	96.51
<b>Plant</b>					
<b>WW Plant Administration</b>					
Wages & Benefits	270,650	279,012	-	(8,362)	103.09
Wages Overtime	-	197	-	(197)	0.00
Operating Expenses	23,350	11,633	-	11,717	49.82
Total WW Plant Administration	294,000	290,842	-	3,158	98.93
<b>WW Cogen</b>					
Wages & Benefits	293,300	296,476	-	(3,176)	101.08
Wages Overtime	-	12,835	-	(12,835)	0.00
Operating Expenses	751,700	202,478	-	549,222	26.94
Total WW Cogen	1,045,000	511,789	-	533,211	48.98
<b>WW Mechanical</b>					
Wages & Benefits	3,139,775	2,922,121	-	217,654	93.07
Wages Overtime	68,925	78,399	-	(9,474)	113.75
Operating Expenses	1,172,300	955,422	-	216,878	81.50
Total WW Mechanical	4,381,000	3,955,942	-	425,058	90.30
<b>WW Plant Operations</b>					
Wages & Benefits	3,310,854	3,237,073	-	73,781	97.77
Wages Overtime	381,202	346,775	-	34,427	90.97
Operating Expenses	552,944	895,321	-	(342,377)	161.92
Total WW Plant Operations	4,245,000	4,479,169	-	(234,169)	105.52
<b>WW MDC</b>					
Operating Expenses	63,000	84,735	-	(21,735)	134.50
Total WW MDC	63,000	84,735	-	(21,735)	134.50



# Albuquerque Bernalillo County Water Utility Authority

## Water Utility Authority Summary Budget with Projections Fiscal Year 2018 As of 06/30/2018 - Unaudited

Fund: 21

Division				Remaining	Budget to
Department	Budget	Actual	Projected	Budget	Actual
					% Expended
<b>SECOND CHANCE FACILITY</b>					
Operating Expenses	25,000	-	-	25,000	0.00
Total Second Chance Facility	25,000	-	-	25,000	0.00
<b>WW SAF</b>					
Wages & Benefits	1,084,212	1,043,355	-	40,857	96.23
Wages Overtime	-	14,696	-	(14,696)	0.00
Operating Expenses	455,788	566,248	-	(110,460)	124.23
Total WW SAF	1,540,000	1,624,299	-	(84,299)	105.47
<b>WW Warehouse</b>					
Operating Expenses	11,000	8,722	-	2,278	79.29
Total WW Warehouse	11,000	8,722	-	2,278	79.29
<b>San Juan Chama Wtr Trtmt Plant</b>					
Wages & Benefits	2,581,400	2,510,118	-	71,282	97.24
Wages Overtime	160,000	159,144	-	856	99.47
Operating Expenses	827,600	736,106	-	91,494	88.94
Total San Juan Chama Wtr Trtmt Plant	3,569,000	3,405,368	-	163,632	95.42
<b>WA Wells, PS, Boost, Reserv</b>					
Wages & Benefits	2,664,069	2,545,765	-	118,304	95.56
Wages Overtime	100,168	85,250	-	14,918	85.11
Operating Expenses	900,254	870,699	-	29,555	96.72
Total WA Wells, PS, Boost, Reserv	3,664,491	3,501,714	-	162,777	95.56
<b>GW Treatment</b>					
Wages & Benefits	1,273,076	1,163,230	-	109,846	91.37
Wages Overtime	31,972	40,735	-	(8,763)	127.41
Operating Expenses	104,040	201,630	-	(97,590)	193.80
Total GW Treatment	1,409,088	1,405,595	-	3,493	99.75
<b>Control System Operators</b>					
Wages & Benefits	659,407	641,374	-	18,033	97.27
Wages Overtime	62,917	100,572	-	(37,655)	159.85
Operating Expenses	23,097	8,237	-	14,860	35.66
Total Control System Operators	745,421	750,183	-	(4,762)	100.64
<b>SCADA SysCtrl and Data Acquis</b>					
Wages & Benefits	363,880	386,954	-	(23,074)	106.34
Wages Overtime	-	1,387	-	(1,387)	0.00
Operating Expenses	223,120	215,025	-	8,095	96.37
Total SCADA SysCtrl and Data Acquis	587,000	603,366	-	(16,366)	102.79



# Albuquerque Bernalillo County Water Utility Authority

## Water Utility Authority Summary Budget with Projections Fiscal Year 2018 As of 06/30/2018 - Unaudited

Fund: 21

Division				Remaining	Budget to
Department	Budget	Actual	Projected	Budget	Actual
					% Expended
<b>College Arsenic Treatment</b>					
Operating Expenses	70,000	72,223	-	(2,223)	103.18
Total College Arsenic Treatment	70,000	72,223	-	(2,223)	103.18
<b>North Reuse</b>					
Operating Expenses	21,000	23,283	-	(2,283)	110.87
Total North Reuse	21,000	23,283	-	(2,283)	110.87
<b>South Reuse</b>					
Operating Expenses	76,000	20,221	-	55,779	26.61
Total South Reuse	76,000	20,221	-	55,779	26.61
Total Plant	21,746,000	20,737,451	-	1,008,549	95.36
<b>Field</b>					
<b>Gravity</b>					
Wages & Benefits	3,886,367	3,881,031	-	5,336	99.86
Wages Overtime	84,950	46,645	-	38,305	54.91
Operating Expenses	831,683	854,487	-	(22,804)	102.74
Total Gravity	4,803,000	4,782,163	-	20,837	99.57
<b>Lift Station Operations</b>					
Wages & Benefits	1,456,660	1,410,072	-	46,588	96.80
Wages Overtime	90,050	74,327	-	15,723	82.54
Operating Expenses	408,290	557,188	-	(148,898)	136.47
Total Lift Station Operations	1,955,000	2,041,587	-	(86,587)	104.43
<b>Fleet Maintenance</b>					
Wages & Benefits	732,570	686,588	-	45,982	93.72
Wages Overtime	-	36,246	-	(36,246)	0.00
Operating Expenses	2,545,104	2,154,064	-	391,040	84.64
Capital Expenses	618,326	571,384	-	46,942	92.41
Total Fleet Maintenance	3,896,000	3,448,282	-	447,718	88.51
<b>WA Customer Requests</b>					
Wages & Benefits	521,643	504,916	-	16,727	96.79
Wages Overtime	54,468	45,629	-	8,839	83.77
Operating Expenses	22,889	10,014	-	12,875	43.75
Capital Expenses	-	-	-	-	0.00
Total WA Customer Requests	599,000	560,559	-	38,441	93.58





# Albuquerque Bernalillo County Water Utility Authority

## Water Utility Authority Summary Budget with Projections Fiscal Year 2018 As of 06/30/2018 - Unaudited

Fund: 21

Division				Remaining	Budget to
Department	Budget	Actual	Projected	Budget	Actual
					% Expended
<b>WA Distribution Lines</b>					
Wages & Benefits	6,777,122	6,455,558	-	321,564	95.26
Wages Overtime	568,475	532,581	-	35,894	93.69
Operating Expenses	6,442,528	5,659,041	-	783,487	87.84
Capital Expenses	-	8,274	-	(8,274)	0.00
Total WA Distribution Lines	13,788,125	12,655,454	-	1,132,671	91.79
<b>WA Field Administration</b>					
Wages & Benefits	1,550,255	1,336,580	-	213,675	86.22
Wages Overtime	53,244	29,694	-	23,550	55.77
Operating Expenses	198,501	121,860	-	76,641	61.39
Capital Expenses	-	-	-	-	0.00
Total WA Field Administration	1,802,000	1,488,134	-	313,866	82.58
Total Field	26,843,125	24,976,179	-	1,866,946	93.04
<b>Compliance</b>					
<b>Laboratory</b>					
Wages & Benefits	1,890,336	1,623,361	-	266,975	85.88
Wages Overtime	5,000	8,558	-	(3,558)	171.16
Operating Expenses	457,664	251,099	-	206,565	54.87
Capital Expenses	-	5,639	-	(5,639)	0.00
Total Laboratory	2,353,000	1,888,657	-	464,343	80.27
<b>NPDES</b>					
Wages & Benefits	1,517,735	990,843	-	526,892	65.28
Wages Overtime	4,670	13,163	-	(8,493)	281.86
Operating Expenses	146,595	96,937	-	49,658	66.13
Total NPDES	1,669,000	1,100,943	-	568,057	65.96
<b>Water Quality</b>					
Wages & Benefits	902,980	832,272	-	70,708	92.17
Wages Overtime	1,377	60	-	1,317	4.36
Operating Expenses	473,643	419,853	-	53,790	88.64
Capital Expenses	-	-	-	-	0.00
Total Water Quality	1,378,000	1,252,185	-	125,815	90.87
Total Compliance	5,400,000	4,241,785	-	1,158,215	78.55
<b>General Government</b>					
<b>General Government</b>					
Wages & Benefits	85,000	51,593	-	33,407	60.70
Operating Expenses	13,101,000	12,697,277	-	403,723	96.92
Financial & Budgetary Expenses	-	-	-	-	0.00



# Albuquerque Bernalillo County Water Utility Authority

## Water Utility Authority Summary Budget with Projections Fiscal Year 2018 As of 06/30/2018 - Unaudited

Fund: 21

Division				Remaining	Budget to
Department	Budget	Actual	Projected	Budget	Actual
Transfers	101,158,000	101,158,000	-	-	100.00
Total General Government	114,344,000	113,906,870	-	437,130	99.62
<b>Early Retirement</b>					
Wages & Benefits	400,000	375,407	-	24,593	93.85
Total Early Retirement	400,000	375,407	-	24,593	93.85
<b>SJCWTP Chemicals</b>					
Operating Expenses	4,746,000	4,969,812	-	(223,812)	104.72
Total SJCWTP Chemicals	4,746,000	4,969,812	-	(223,812)	104.72
<b>GW Chemicals</b>					
Operating Expenses	262,000	92,916	-	169,084	35.46
Total GW Chemicals	262,000	92,916	-	169,084	35.46
<b>WW Treatment Chemicals</b>					
Operating Expenses	875,000	371,810	-	503,190	42.49
Total WW Treatment Chemicals	875,000	371,810	-	503,190	42.49
<b>Collection Chemicals</b>					
Operating Expenses	2,808,000	3,488,460	-	(680,460)	124.23
Total Collection Chemicals	2,808,000	3,488,460	-	(680,460)	124.23
<b>CIP Funded Positions</b>					
Wages & Benefits	1,013,979	874,087	-	139,892	86.20
Wages Overtime	-	32	-	(32)	0.00
Operating Expenses	1,021	63,810	-	(62,789)	6249.76
Total CIP Funded Positions	1,015,000	937,929	-	77,071	92.41
<b>San Juan-Chama</b>					
Operating Expenses	2,247,000	2,109,275	-	137,725	93.87
Total San Juan-Chama	2,247,000	2,109,275	-	137,725	93.87
Total General Government	126,697,000	126,252,479	-	444,521	99.65
<b>Planning &amp; Engineering</b>					
<b>Central Engineering</b>					
Wages & Benefits	2,284,590	2,006,164	-	278,426	87.81
Wages Overtime	-	8	-	(8)	0.00
Operating Expenses	60,410	71,195	-	(10,785)	117.85
Total Central Engineering	2,345,000	2,077,367	-	267,633	88.59



# Albuquerque Bernalillo County Water Utility Authority

## Water Utility Authority Summary Budget with Projections Fiscal Year 2018 As of 06/30/2018 - 1st Close

Fund: 21

Division				Remaining	Budget to
Department	Budget	Actual	Projected	Budget	Actual
% Expended					
<b>One Stop Shop Enterprise</b>					
Wages & Benefits	422,747	344,214	-	78,533	81.42
Operating Expenses	12,253	58,460	-	(46,207)	477.11
Total One Stop Shop Enterprise	435,000	402,674	-	32,326	92.57
<b>Maps &amp; Records</b>					
Wages & Benefits	452,048	399,226	-	52,822	88.31
Wages Overtime	-	-	-	-	0.00
Operating Expenses	109,952	78,777	-	31,175	71.65
Total Maps & Records	562,000	478,003	-	83,997	85.05
Total Planning & Engineering	3,342,000	2,958,044	-	383,956	88.51
<b>Water Resources</b>					
<b>Water Resources Planning</b>					
Wages & Benefits	542,283	540,659	-	1,624	99.70
Wages Overtime	-	1,552	-	(1,552)	0.00
Operating Expenses	1,348,717	1,134,761	-	213,956	84.14
Total Water Resources Planning	1,891,000	1,676,972	-	214,028	88.68
<b>Water Conservation</b>					
Wages & Benefits	465,330	432,798	-	32,532	93.01
Wages Overtime	-	(102)	-	102	0.00
Operating Expenses	1,281,670	1,356,512	-	(74,842)	105.84
Capital Expenses	-	-	-	-	100.00
Total Water Conservation	1,747,000	1,789,208	-	(42,208)	102.42
<b>Groundwater Protection</b>					
Wages & Benefits	182,627	79,917	-	102,710	43.76
Wages Overtime	-	1,337	-	(1,337)	0.00
Operating Expenses	51,373	83,448	-	(32,075)	162.44
Total Groundwater Protection	234,000	164,702	-	69,298	70.39
<b>Arsenic Removal</b>					
Operating Expenses	48,000	-	-	48,000	0.00
Total Arsenic Removal	48,000	-	-	48,000	0.00
Total Water Resources	3,920,000	3,630,882	-	289,118	92.62
Grand Total	217,765,000	211,424,873	-	6,340,127	97.09



# Albuquerque Bernalillo County Water Utility Authority

## OVERVIEW

As of June 2018 - Unaudited

					Variance
Fund 21	FY17 YTD	FY18 YTD	FY18 Budgeted	FY18 Projected	Budget-Projected
<b>Revenues:</b>					
Water	140,088,406	143,471,447	123,355,000	143,472,000	20,117,000
Water Resources Management	4,362,949	4,417,899	4,500,000	4,418,000	(82,000)
Wastewater	69,101,050	76,078,460	88,391,000	76,078,000	(12,313,000)
Interest Earnings	86,073	321,807	100,000	322,000	222,000
Other	4,299,250	5,597,254	4,919,000	5,597,000	678,000
<b>Total</b>	<b>217,937,728</b>	<b>229,886,867</b>	<b>221,265,000</b>	<b>229,887,000</b>	<b>8,622,000</b>
<b>Fund 21</b>					
<b>Expenses:</b>					
Salaries (less overtime)	52,479,344	53,254,145	57,017,211	53,254,000	3,763,211
Overtime	1,820,189	1,825,466	1,797,683	1,826,000	(28,317)
Operating Expenses (less power/chemicals)	34,459,976	33,978,534	36,938,752	33,979,000	2,959,752
Power	11,860,363	11,689,346	11,544,028	11,689,000	(144,972)
Chemicals	8,088,524	8,934,087	8,691,000	8,934,000	(243,000)
Other	92,395,748	101,743,295	101,776,326	101,743,000	33,326
<b>Total</b>	<b>201,104,144</b>	<b>211,424,873</b>	<b>217,765,000</b>	<b>211,425,000</b>	<b>6,340,000</b>
<b>Fund 31:</b>					
<b>Revenues:</b>					
Utility Expansion Charges	8,545,978	10,397,749	8,000,000	10,398,000	2,398,000
<b>Total</b>	<b>8,545,978</b>	<b>10,397,749</b>	<b>8,000,000</b>	<b>10,398,000</b>	<b>2,398,000</b>
<b>Expenses:</b>					
Principal	48,070,991	42,885,467	42,886,000	42,886,000	-
Interest/Fiscal Agent Fees	27,675,796	27,303,311	28,107,000	27,303,000	804,000
<b>Total</b>	<b>75,746,787</b>	<b>70,188,778</b>	<b>70,993,000</b>	<b>70,189,000</b>	<b>804,000</b>



# Albuquerque Bernalillo County Water Utility Authority

## OVERVIEW - PLANT & FIELD OPERATIONS

As of June 2018 - Unaudited

### PLANT DIVISION

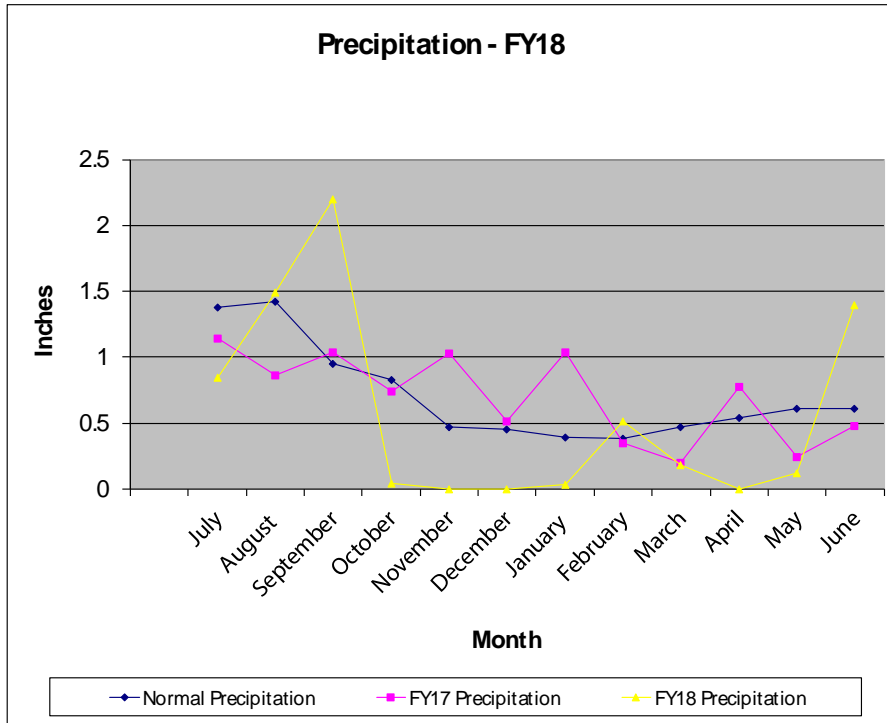
					Variance
FUND 21	FY17 YTD	FY18 YTD	FY18 Budgeted	FY18 Projected	Budget-Projected
<b>Expenses:</b>					
Salaries (less overtime)	14,405,871	15,025,524	15,640,623	15,026,000	614,623
Overtime	770,758	839,993	805,184	840,000	(34,816)
Operating Expenses	4,963,259	4,871,934	5,300,193	4,872,000	428,193
Other	7,495	-	-	-	-
<b>Total</b>	<b><u>20,147,383</u></b>	<b><u>20,737,451</u></b>	<b><u>21,746,000</u></b>	<b><u>20,738,000</u></b>	<b><u>1,008,000</u></b>

### FIELD DIVISION

					Variance
FUND 21	FY17 YTD	FY18 YTD	FY18 Budgeted	FY18 Projected	Budget-Projected
<b>Expenses:</b>					
Salaries (less overtime)	14,207,710	14,274,749	14,924,617	14,275,000	649,617
Overtime	873,569	765,124	851,187	765,000	86,187
Operating Expenses	9,908,805	9,356,648	10,448,995	9,356,000	1,092,995
Other	683,857	579,658	618,326	580,000	38,326
<b>Total</b>	<b><u>25,673,941</u></b>	<b><u>24,976,179</u></b>	<b><u>26,843,125</u></b>	<b><u>24,976,000</u></b>	<b><u>1,867,125</u></b>



# Albuquerque Bernalillo County Water Utility Authority



## ALBUQUERQUE AREA PRECIPITATION

<u>Month</u>	<u>Normal</u> <u>Precipitation</u>	<u>FY17</u> <u>Precipitation</u>	<u>FY18</u> <u>Precipitation</u>
July	1.38	1.14	0.85
August	1.42	0.86	1.49
September	0.95	1.04	2.20
October	0.83	0.74	0.04
November	0.47	1.03	0.00
December	0.45	0.51	0.00
January	0.39	1.04	0.03
February	0.38	0.35	0.51
March	0.47	0.20	0.18
April	0.54	0.78	0.00
May	0.61	0.24	0.12
June	0.61	0.48	1.40
<b>Totals YTD</b>	<b>8.50</b>	<b>8.41</b>	<b>6.82</b>
<b>Totals FY</b>	<b>8.50</b>	<b>8.41</b>	<b>6.82</b>



# Albuquerque Bernalillo County Water Utility Authority

## ALBUQUERQUE AREA PRECIPITATION Calendar Year

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug</u>	<u>Sept</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Annual</u>
<u>Normal</u>	0.41	0.40	0.52	0.40	0.46	0.51	1.39	1.51	0.85	0.86	0.38	0.52	8.21
1985	0.49	0.54	0.70	1.69	1.12	0.53	1.16	0.49	1.53	2.15	0.19	0.16	10.75
1986	0.22	1.01	0.17	0.33	1.11	2.57	1.51	2.26	0.53	1.54	1.29	0.44	12.98
1987	0.66	0.61	0.07	1.00	0.58	0.13	0.91	2.98	0.20	0.44	0.42	0.34	8.34
1988	0.15	0.07	0.85	1.42	0.62	1.25	2.26	3.29	2.63	0.32	0.22	0.03	13.11
1989	0.57	0.35	0.48	T	0.02	0.02	1.51	0.48	0.31	0.97	T	0.28	4.99
1990	0.21	0.49	0.41	1.71	0.45	0.27	2.36	1.79	0.96	0.15	0.86	0.59	10.25
1991	0.60	0.06	0.14	T	1.14	0.65	2.63	1.26	1.43	0.26	1.93	1.49	11.59
1992	0.60	0.20	0.63	0.22	1.81	0.67	2.01	2.17	0.79	0.70	1.12	1.16	12.08
1993	0.94	1.82	0.22	T	0.20	0.44	0.23	3.05	0.49	0.64	0.97	0.03	9.03
<u>Normal</u>	0.44	0.46	0.54	0.52	0.50	0.59	1.37	1.64	1.00	0.89	0.43	0.50	8.88
1994	0.02	0.26	0.59	0.07	1.87	0.28	0.61	2.70	1.21	1.54	1.38	0.62	11.15
1995	0.55	0.39	0.16	0.69	0.08	0.20	0.35	0.74	2.32	T	0.03	0.17	5.68
1996	0.17	0.19	0.02	T	0.02	2.86	1.03	1.54	1.46	1.52	0.95	T	9.76
1997	0.55	0.12	0.11	1.65	0.42	1.03	2.04	1.96	2.43	0.32	0.73	1.00	12.36
1998	0.14	0.66	2.34	0.64	T	0.17	2.37	0.88	0.15	1.80	0.46	0.22	9.83
1999	0.12	T	1.10	0.59	0.54	0.60	1.47	3.04	0.54	0.26	T	0.03	8.29
2000	0.30	0.30	1.27	T	0.07	0.72	0.83	0.57	0.37	2.66	0.91	0.24	8.24
2001	0.28	0.27	0.27	0.51	0.38	0.26	1.37	1.59	0.51	0.14	0.68	0.24	6.50
2002	0.34	0.07	T	0.39	0.02	0.18	0.88	1.59	1.53	0.54	0.49	0.36	6.39
2003	T	1.02	1.45	T	0.09	0.20	0.41	0.71	0.29	1.58	0.49	0.11	6.35
<u>Normal</u>	0.39	0.38	0.47	0.54	0.61	0.61	1.38	1.42	0.95	0.83	0.47	0.45	8.50
2004	0.10	1.17	0.67	3.00	T	0.61	2.25	0.23	0.97	1.13	1.37	0.30	11.80
2005	1.38	1.78	1.12	1.17	0.40	0.09	1.03	0.49	2.83	1.03	T	0.10	11.42
2006	0.04	T	0.14	0.13	T	1.14	3.55	3.74	1.10	1.70	0.02	1.50	13.06
2007	0.18	0.70	0.64	1.06	2.00	0.66	1.63	1.05	0.73	0.17	0.25	1.14	10.21
2008	0.39	0.41	T	0.11	0.18	0.50	3.38	1.04	0.08	1.38	0.23	0.65	8.35
2009	T	T	0.31	0.34	0.36	0.80	0.80	0.94	1.42	1.51	0.04	0.15	6.67
2010	0.64	0.17	0.40	0.58	0.04	0.76	2.19	0.95	1.88	0.26	0.02	1.07	8.96
2011	0.07	0.04	T	0.03	0.05	T	0.39	0.93	0.40	1.48	0.13	1.20	4.72
2012	0.40	0.26	0.20	0.81	0.19	0.42	0.89	1.62	0.44	T	0.11	0.12	5.46
2013	0.11	0.24	0.17	0.08	0.08	0.02	2.77	0.42	3.97	0.16	0.90	0.40	9.32
2014	0.00	0.18	0.22	0.01	0.60	0.11	3.49	1.45	0.73	0.63	0.25	1.14	8.81
2015	0.70	0.61	0.11	0.36	1.86	0.56	3.28	0.32	1.19	0.94	0.58	0.98	11.49
2016	0.37	0.05	T	0.66	0.11	0.17	1.14	0.86	1.04	0.74	1.03	0.51	6.68
2017	1.04	0.35	0.20	0.78	0.24	0.48	0.85	1.49	2.2	0.04	0.00	0.00	7.67
2018	0.03	0.51	0.18	T	0.12	1.40							2.24



**Monthly Water Production**  
**(in 000's)**

	<b>FY12</b>	<b>FY13</b>	<b>FY14</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>
Jul	4,204	3,950	3,346	3,546	3,279	3,965	3,905
Aug	3,789	3,879	3,395	3,249	3,527	3,369	3,316
Sep	3,082	3,250	2,676	3,028	3,042	2,882	3,064
Oct	2,493	2,788	2,479	2,554	2,377	2,523	2,398
Nov	1,904	1,964	1,772	1,875	1,745	1,873	1,980
Dec	1,780	1,775	1,661	1,702	1,637	1,684	1,749
Jan	1,734	1,788	1,715	1,648	1,669	1,635	1,681
Feb	1,627	1,632	1,655	1,536	1,652	1,520	1,561
Mar	2,157	2,201	2,137	2,040	2,168	2,175	2,054
Apr	2,653	2,722	2,605	2,594	2,399	2,508	2,584
May	3,436	3,344	3,096	2,635	2,925	2,983	3,257
Jun	4,105	3,929	3,673	3,438	3,610	3,663	3,511
<i>Avg</i>	<i>2,747</i>	<i>2,769</i>	<i>2,517</i>	<i>2,487</i>	<i>2,503</i>	<i>2,565</i>	<i>2,588</i>
<b>Total</b>	<b>32,964</b>	<b>33,222</b>	<b>30,209</b>	<b>29,845</b>	<b>30,030</b>	<b>30,780</b>	<b>31,060</b>





# Albuquerque Bernalillo County Water Utility Authority

## CIP Expense Summary by Decade Category and Line Fiscal Year 2018 As of June 30, 2018 - Unaudited

Funding Type: 01 Basic Program Rehab

Decade Line	Current Budget	Activity Balance	Encumbrances	Balance	% of Budget
<b>01 Sanitary Swr Pipeline Renewal</b>					
0100 Operating to CIP01	0.00	0.00	0.00	0.00	0.00
0101 Interceptor Rehab (Planned)	2,253,844.00	2,877,864.83	1,245,894.64	(1,869,915.47)	182.97
0102 Interceptor Rehab (Emergency)	2,445,691.00	4,008,232.67	1,058,623.42	(2,621,165.09)	207.17
0103 Sm Diameter SwrLn (Planned)	1,249,908.00	1,398,085.19	87,194.55	(235,371.74)	118.83
0104 Sm Diameter SwrLn (Emergency)	753,844.00	2,064,617.52	344,344.22	(1,655,117.74)	319.56
0105 Sewer Line CCTV Inspections	347,864.00	420,590.86	179,176.84	(251,903.70)	172.41
0106 SwrLn Deficiency (San Diego)	0.00	0.00	0.00	0.00	0.00
0107 Accelerated SwrLn Rehab	18,053.00	12,419.75	5,737.92	(104.67)	100.58
0108 Collection Sys Stor Yard Wall	150,000.00	0.00	0.00	150,000.00	0.00
0109 ByPass Pump Equip Stor Bldg	45,000.00	0.00	0.00	45,000.00	0.00
0110 Collection SysFlow Monitoring	50,000.00	0.00	0.00	50,000.00	0.00
Total Sanitary Sewr Pipeline Renewal	7,314,204.00	10,781,810.82	2,920,971.59	(6,388,578.41)	187.34
<b>02 Drinking Wtr Pipeline Renewal</b>					
0201 Sm Diameter WtrLn (Planned)	2,136,236.00	1,653,878.78	313,186.41	169,170.81	92.08
0202 Sm Diameter WtrLn (Emergency)	284,886.00	184,210.86	93,806.91	6,868.23	97.59
0203 Lg Diameter Wtr Ln (Planned)	1,790,612.00	1,828,093.58	83,226.64	(120,708.22)	106.74
0204 Lg Diameter WtrLn (Emergency)	324,921.00	148,719.55	33,679.90	142,521.55	56.14
0205 Wtr Mtr, Mtr Bx & ServLn Rehab	1,921,890.00	2,228,293.71	106,903.57	(413,307.28)	121.51
0206 Lg Water Valve Replacement	300,066.00	56,386.49	9,706.85	233,972.66	22.03
0207 Pressure Reducing Valve Repl	196,672.00	53,886.99	0.00	142,785.01	27.40
0208 AM Plan, Lg Diameter WtrLn	34,348.00	78,737.37	25,166.11	(69,555.48)	302.50
0209 WtrLn Deficiency (San Diego)	235,852.00	0.00	0.00	235,852.00	0.00
0210 Accelerated WtrLn Rehab	1,315,040.00	1,111,343.10	916,690.63	(712,993.73)	154.22
0211 Universe Transmission Line	0.00	0.00	0.00	0.00	0.00
0212 CrossTrunk Transfer Line	200,000.00	88,350.59	148,077.96	(36,428.55)	118.21
0213 TransLn Corrosion Prot Imprv	100,000.00	0.00	0.00	100,000.00	0.00
Total Drinking Wtr Pipeline Renewal	8,840,523.00	7,431,901.02	1,730,444.98	(321,823.00)	103.64
<b>03 Southsd Wtr Reclam Plant Renwl</b>					
0301 Preliminary Treatment Facility	310,260.00	683,624.65	196,511.43	(569,876.08)	283.68
0302 Solids Deatering Facility	15,395,535.00	16,067,714.14	581,113.78	(1,253,292.92)	108.14
0303 AB Blower Capacity Imprv	26,128.00	27,824.27	21,562.14	(23,258.41)	189.02
0304 Aer Digester Renewal & Imprv	3,128,119.00	2,109,811.46	1,827,815.73	(809,508.19)	125.88
0305 Primary Clarifier Imprv	7,905,848.00	3,367,755.18	12,244,126.59	(7,706,033.77)	197.47
0306 Aeration Basin Renewal Phase 2	182,124.00	169,111.56	55,849.13	(42,836.69)	123.52
0307 Secondary Sludge Thickng Imprv	1,939,770.00	1,608,042.16	357,493.15	(25,765.31)	101.33
0308 Cogeneration Improvements	391,434.00	391,433.85	76,537.55	(76,537.40)	119.55
0309 SWRP Renewal Contingency	698,905.00	464,901.29	207,035.26	26,968.45	96.14
0310 ABB Service Contract	160,000.00	145,351.92	0.00	14,648.08	90.84
0311 Plant Wd Elec Instr & Qntrls	1,960,815.00	2,483,722.48	653,487.62	(1,176,395.10)	160.00
0312 RASand Sldg Wthdrl PumpsImpr	41,372.00	373,754.19	201,535.12	(533,917.31)	1390.53
0313 Plant Wd Non-Potable Wtr Impr	0.00	11,192.46	0.00	(11,192.46)	0.00
0314 Warehouse Facility Replacement	0.00	0.00	0.00	0.00	0.00
0315 Maintenance Facility Replace	0.00	0.00	0.00	0.00	0.00
0316 Plant Landscaping	131,945.00	128,574.59	67,020.78	(63,650.37)	148.24
0318 Storm Water Drainage Improvmts	262,236.00	262,236.10	0.00	(0.10)	100.00
0319 Sludge Drying Beds Demolition	0.00	0.00	0.00	0.00	0.00
0320 Plant Equalization Basins	0.00	0.00	0.00	0.00	0.00
0322 RAMP Report Update	0.00	0.00	0.00	0.00	0.00
0323 Program Mgmt Assistance	0.00	0.00	0.00	0.00	0.00
0324 High Efficiency Blwr Upgrades	0.00	0.00	0.00	0.00	0.00



# Albuquerque Bernalillo County Water Utility Authority

## CIP Expense Summary by Decade Category and Line Fiscal Year 2018 As of June 30, 2018 - Unaudited

Funding Type: 01 Basic Program Rehab

Decade Line	Current Budget	Activity Balance	Encumbrances	Balance	% of Budget
0325 New Digester Capacity	811,507.00	485,317.32	332,157.14	(5,967.46)	100.74
0326 Digester Cleaning Program	11,007.00	0.00	0.00	11,007.00	0.00
0327 Chem Storage & Feed Systems	204,590.00	214,090.16	-	(9,500.16)	104.64
0328 Pre Screens UV Disinfct Facil	4,866,143.00	5,102,236.48	115,304.94	(351,398.42)	107.22
0329 AsBuilt Drawings	128,932.00	100,566.98	85,272.18	(56,907.16)	0.00
0330 FOG Receiving Station	0.00	0.00	0.00	0.00	0.00
0331 Rotating Drum Thickeners	350,000.00	0.00	0.00	350,000.00	0.00
0332 Advanced Treatment Imprvmnts	0.00	0.00	0.00	0.00	0.00
0333 Effluent Smp/Station Imprvmnts	0.00	0.00	0.00	0.00	0.00
0334 Operator Lab Renewal	0.00	0.00	0.00	0.00	0.00
Total Southsd Wtr Reclam Plant Renwl	38,906,670.00	34,197,261.24	17,022,822.54	(12,313,413.78)	131.65
<b>04 Soil Amendment Facility Renwl</b>					
0401 Upgrade of Soil Amendment Fac	507,440.00	500,866.09	0.00	6,573.91	98.70
Total Soil Amendment Facility Renewal	507,440.00	500,866.09	0.00	6,573.91	98.70
<b>05 Lift Stat and Vac Stat Renwl</b>					
0501 Lift Station Renewal (Planned)	486,306.00	560,684.74	134,093.32	(208,472.06)	142.87
0502 Lift Station 20 Rehab	35,609.00	358,965.60	718,465.89	(1,041,822.49)	3025.73
0503 Lift Station 24 Rehab	972,233.00	252,856.40	141,721.66	577,654.94	40.58
0504 Vacuum St Renewal (Planned)	1,370,900.00	1,173,689.41	122,265.81	74,944.78	94.53
0505 Lift Station PLC Replacement	21,688.00	0.00	0.02	21,687.98	0.00
0506 AM Plan LftSt & VacSt	0.00	0.00	0.00	0.00	0.00
0507 Arc Flash Study & Transf Test	0.00	0.00	0.00	0.00	0.00
0508 CABQ Lft St Reimbursement	0.00	0.00	0.00	-	0.00
0509 Lift St Renewal (Emergency)	150,000.00	0.00	0.00	150,000.00	0.00
0510 Vacuum St Renewal (Emergency)	165,000.00	72,337.11	17,386.94	75,275.95	54.38
0511 Station Telemetry Upgrades	0.00	0.00	0.00	0.00	0.00
Total Lift Stat and Vac Stat Renwl	3,201,736.00	2,418,533.26	1,133,933.64	(350,730.90)	110.95
<b>06 Odor Ctrl Facilities Renewal</b>					
0601 Collection Sys OdrCtrl Renewal	894,645.00	407,707.12	61,420.39	425,517.49	52.44
0602 AM Plan for Odor Control	141,999.00	159,169.63	286,554.77	(303,725.40)	313.89
0603 ES Collect Odor Cntrl Demo Study	50,000.00	0.00	0.00	50,000.00	0.00
Total Odor Ctrl Facilities Renewal	1,086,644.00	566,876.75	347,975.16	171,792.09	84.19
<b>07 Groundwater Prod and Distrib</b>					
0701 NaClO Gentr Sys Rehab/Repl	103,613.00	164,133.73	46,285.95	(106,806.68)	203.08
0702 Booster Pump Station Rehab	701,513.00	760,956.00	144,398.05	(203,841.05)	129.06
0703 Well Rehab & Replacement	445,801.00	1,262,346.90	120,869.62	(937,415.52)	310.28
0706 Ridgrst Well N5 Elm Dir Inj	0.00	0.00	0.00	0.00	0.00
0708 Kiva Reservoir N1 Rehab	0.00	0.00	0.00	0.00	0.00
0710 Gas Engine Conversions	767,848.00	875,734.69	130,726.62	(238,613.31)	131.08
0711 College Reservoir Rehab	0.00	0.00	0.00	0.00	0.00
0712 Love Reservoir N1 Rehab	278,858.00	324,741.68	0.00	(45,883.68)	116.45
0714 Franciscan Reservoir Rehab	100,000.00	0.00	0.00	100,000.00	0.00
0715 Charles Wells Reservoir Rehab	253,853.00	101,997.66	92,374.75	59,480.59	76.57
0717 Reservoir Clean & Inspection	87,312.00	31,366.35	0.00	55,945.65	35.92
0719 Reserv After 1980 Rehab	116,468.00	140,477.22	47,344.98	(71,354.20)	161.27
0721 PS & Reservoir Abandonment/Dec	50,000.00	0.00	0.00	50,000.00	0.00
0722 Corrales Well N2 Collctr Pipe	0.00	0.00	0.00	0.00	0.00
0724 Corrales Trunk Well N9 Imprv	482.00	0.00	0.00	482.00	0.00
0725 Corrales Trunk Gas Engine Impr	94,237.00	0.00	0.00	94,237.00	0.00
0726 Booster Pump Surge Tnk Removal	0.00	0.00	0.00	0.00	0.00



# Albuquerque Bernalillo County Water Utility Authority

## CIP Expense Summary by Decade Category and Line Fiscal Year 2018 As of June 30, 2018 - Unaudited

Funding Type: 01 Basic Program Rehab

Decade Line	Current Budget	Activity Balance	Encumbrances	Balance	% of Budget
0727 Burton Reservoir N2 Renewal	23,341.00	23,341.20	0.00	(0.20)	100.00
0730 AM Plan for Reservoirs	50,000.00	38,720.13	122,705.84	(111,425.97)	322.85
0731 AM Plan for Wells	76,080.00	81,627.71	342.14	(5,889.85)	107.74
0732 Valve Exercise Equip & Replmt	100,000.00	0.00	0.00	100,000.00	0.00
0735 Arc Flash Study Groundwtr Syst	0.00	0.00	0.00	0.00	0.00
0736 Corrales W2 Arsenic Treatment	408,539.00	0.00	8,539.02	399,999.98	2.09
0740 Corrales Trunk Arsenic Med Rep	150,000.00	136,877.50	0.00	13,122.50	91.25
0741 Reservoir Mixing Improvements	0.00	0.00	0.00	0.00	0.00
0742 Alameda Truck Well Collector	0.00	0.00	0.00	0.00	0.00
0743 San Jose Resevr and Pmp St Demo	166,667.00	0.00	0.00	166,667.00	0.00
0744 Corrales W9 Improvements	0.00	0.00	0.00	0.00	0.00
Total Groundwater Prod and Distrib	3,974,612.00	3,942,320.77	713,586.97	(681,295.74)	117.14
<b>08 Water Treatment</b>					
0801 Wtr Treatment Plant Rehab	42,358.00	110,085.00	174,278.27	(242,005.27)	671.33
0802 Chemical Solids Systems Imprv	92,029.00	8,579.04	8,579.04	74,870.92	18.64
0803 Grit Removal Basin Improvement	504,678.00	425,068.46	0.00	79,609.54	84.23
0804 Dissolved Ozone Monitor Imprv	60,917.00	25,240.10	36,978.06	(1,301.16)	102.14
0805 Diversion Bar Screen Imprv	138,255.00	126,070.91	56,641.52	(44,457.43)	132.16
0806 Vehicle Parking Improvements	0.00	0.00	0.00	0.00	0.00
0807 Settling Basin Edge Protection	75,000.00	0.00	0.00	75,000.00	0.00
0808 Water System SCADA Rehab	60,942.00	33,242.42	4,710.00	22,989.58	62.28
0810 Universal Power Supply Replace	0.00	0.00	0.00	0.00	0.00
0811 College Arsenic Facility Rehab	17,886.00	24,561.96	0.00	(6,675.96)	137.33
0812 Corrales Trunk Arsenic Imprv	0.00	0.00	0.00	0.00	0.00
0813 Corrales Well N2 Arsenic Treat	60,916.00	4,276.97	0.00	56,639.03	7.02
0815 Corrales Well N5 Arsenic Treat	0.00	0.00	0.00	0.00	0.00
0817 Corrales Trk Arsnic Media Repla	3,551.00	0.00	3,550.65	0.35	99.99
0818 Raw Water Pump Station Rehab	133,116.00	123,289.00	26,820.17	(16,993.17)	112.77
0819 SJCWTP Site Security Improv	0.00	0.00	0.00	0.00	0.00
0820 Relocate MDC/BCIP Arsnic Treat	0.00	0.00	0.00	0.00	0.00
0821 Caustic Soda Feed Sysat SJCWTP	0.00	0.00	0.00	0.00	0.00
0824 College Arsenic Rem Demo Fac	0.00	0.00	0.00	0.00	0.00
0825 PreSediment Solids Hdle Imprv	0.00	0.00	0.00	0.00	0.00
0826 Lime Sys Expansion at SJCWTP	375,902.00	198,822.55	278,971.74	(101,892.29)	0.00
Total Water Treatment	1,565,550.00	1,079,236.41	590,529.45	(104,215.86)	106.66
<b>09 Reuse Line and Plant Renewal</b>					
0901 Reuse Line Rehab	167,682.00	0.00	0.00	167,682.00	0.00
0902 Reuse Plant Rehab	95,946.00	168,610.94	5,119.61	(77,784.55)	181.07
Total Reuse Line and Plant Renewal	263,628.00	168,610.94	5,119.61	89,897.45	65.90
<b>10 Compliance</b>					
1001 Water Quality Laboratory	778,755.00	498,149.94	72,253.24	208,351.82	73.25
1002 NPDES Program	82,000.00	11,002.76	32,931.51	38,065.73	0.00
1003 Water Quality Program	35,000.00	4,493.19	0.00	30,506.81	12.84
Total Compliance	895,755.00	513,645.89	105,184.75	276,924.36	69.08
<b>11 Shared Renewal</b>					
1101 Transfer Station 70 Rehab	6,226.00	6,225.54	0.00	0.46	99.99
1102 Valve Assessment Program Study	0.00	0.00	0.00	0.00	0.00
1103 CIP Funded Position Transfer	1,014,000.00	942,853.96	0.00	71,146.04	92.98
1104 UT Wide AM Plan Update	400,000.00	37,183.00	7,769.41	355,047.59	11.24



# Albuquerque Bernalillo County Water Utility Authority

## CIP Expense Summary by Decade Category and Line Fiscal Year 2018 As of June 30, 2018 - Unaudited

**Funding Type:** 01 Basic Program Rehab

Decade Line	Current Budget	Activity Balance	Encumbrances	Balance	% of Budget
1105 Security Improvements	9,491.00	7,923.29	1,568.07	(0.36)	100.00
1106 Safety Group Equipment	34,566.00	9,253.16	5,570.00	19,742.84	42.88
1107 Leak Detection Equipment	5,000.00	0.00	0.00	5,000.00	0.00
Total Shared Renewal	1,469,283.00	1,003,438.95	14,907.48	450,936.57	69.31
<b>12 Franchise Fee Compliance Costs</b>					
1201 Franchise Fee Compl (Wtr&Swr)	2,120,578.00	3,221,641.25	4,047,049.67	(5,148,112.92)	342.77
1202 Mnhole/VlvBx DMD Street Rehab	609,941.00	773,908.96	591,189.38	(755,157.34)	223.81
Total Franchise Fee Compliance Costs	2,730,519.00	3,995,550.21	4,638,239.05	(5,903,270.26)	316.20
<b>13 Vehicles and Heavy Equipment</b>					
1301 Vehide Replacement	3,005,727.00	2,284,162.43	832,162.65	(110,598.08)	103.68
1303 Field Heavy Equipment	994,273.00	912,364.00	81,909.00	0.00	100.00
Total Vehidesand Heavy Equipment	4,000,000.00	3,196,526.43	914,071.65	(110,598.08)	102.76
	74,756,564.00	69,796,578.78	30,137,786.87	(25,177,801.65)	133.68

**Funding Type:** 03 Spec Proj w/Dedicated Rev Strm

### 94 Special Projects

9418 Magnesium Hydro Project	63,084.00	27,016.68	10,267.76	25,799.56	59.10
Total Special Projects	63,084.00	27,016.68	10,267.76	25,799.56	59.10
	63,084.00	27,016.68	10,267.76	25,799.56	59.10

**Funding Type:** 04 Spec Proj w/o Dedicate Rev Str

### 94 Special Projects

9401 Steel Water Line Replacement	1,000,000.00	1,000,000.00	0.00	0.00	100.00
9403 Automated Meter Infrsastructure	4,103,745.00	1,079,458.64	2,294,727.42	729,558.94	82.22
9419 Yucca and Central Odor Contrl	1,058,813.00	1,058,813.25	0.00	(0.25)	100.00
9420 Fluoride CIP Equipment	250,000.00	31,857.52	1,420.07	216,722.41	13.31
9421 Valle Del Oro Project	3,000,000.00	1,966,462.12	410,706.04	622,831.84	79.24
9422 Los Padillas Wtr Pipeline Pro	1,700,000.00	740,934.18	1,003,065.72	(43,999.90)	102.59
Total Special Projects	11,112,558.00	5,877,525.71	3,709,919.25	1,525,113.04	86.28
	11,112,558.00	5,877,525.71	3,709,919.25	1,525,113.04	86.28

**Funding Type:** 02 Basic Program Growth

### 20 Drinking Wtr Plant Fac Growth

2001 Aquifer Storage and Recovery	9,121,675.00	3,520,752.30	5,905,570.21	(304,647.51)	103.34
Total Drinking Wtr Plant Fac Growth	9,121,675.00	3,520,752.30	5,905,570.21	(304,647.51)	103.34

### 24 Land Acquisition

2401 Land & Easement Acquisition	37,365.00	28,225.26	27,324.07	(18,184.33)	148.67
Total Land Acquisition	37,365.00	28,225.26	27,324.07	(18,184.33)	148.67

### 26 Water Rights and Storage

2601 Water Rightsand Storage	18,856.00	18,988.92	0.00	(132.92)	100.70
Total Water Rightsand Storage	18,856.00	18,988.92	0.00	(132.92)	100.70



# Albuquerque Bernalillo County Water Utility Authority

## CIP Expense Summary by Decade Category and Line Fiscal Year 2018 As of June 30, 2018 - Unaudited

Funding Type: 02 Basic Program Growth

Decade Line	Current Budget	Activity Balance	Encumbrances	Balance	% of Budget
<b>27 Development Agreements</b>					
2701 Development Agreements	1,050,018.00	330,578.39	6,036,728.39	(5,317,288.78)	606.40
Total Development Agreements	1,050,018.00	330,578.39	6,036,728.39	(5,317,288.78)	606.40
<b>28 MIS/ GIS</b>					
2801 MIS/ GIS	4,408,851.00	3,377,516.53	1,601,374.13	(570,039.66)	112.93
Total MIS/ GIS	4,408,851.00	3,377,516.53	1,601,374.13	(570,039.66)	112.93
<b>30 Utility Risk Reduction</b>					
3101 Integrated Master Plan	664,094.00	205,275.73	418,465.88	40,352.39	93.92
Total Master Plan and Asset Managemt	664,094.00	205,275.73	418,465.88	40,352.39	93.92
<b>32 Miscellaneous Growth</b>					
3201 Pino Yards Replacement	0.00	0.00	0.00	0.00	0.00
3203 Low Income W/S Connections	3,995.00	3,994.19	0.00	0.81	99.98
Total Miscellaneous Growth	3,995.00	3,994.19	0.00	0.81	99.98
	15,304,854.00	7,485,331.32	13,989,462.68	(6,169,940.00)	140.31

Funding Type: 03 Spec Proj w/Dedicated Rev Strm

### 94 Special Projects

9405 Water Rights Enhancement	77,511.00	24,000.00	44,618.13	8,892.87	88.53
9406 San Juan Chama Drinkng Wtr Prj	0.00	0.00	0.00	0.00	0.00
9407 Southside Reuse Project	0.00	0.00	0.00	0.00	0.00
9408 San Juan Chama Mitigation	670,547.00	327,576.23	197,370.71	145,600.06	78.29
9413 NMFA Grant/Loan	1,000,000.00	0.00	0.00	1,000,000.00	0.00
9416 Corrales 2 to 3 Projects	1,589,801.00	23,320.66	0.00	1,566,480.34	1.47
9417 NMED Grant SAP 14 1600 STB	18,466.00	18,465.93	0.00	0.07	100.00
9423 Admin Building Project	7,437,453.00	186,396.84	0.00	7,251,056.16	2.51
9424 NMFA Grant/Loan AMI Project	1,010,000.00	422,690.81	0.00	587,309.19	41.85
Total Special Projects	11,803,778.00	1,002,450.47	241,988.84	10,559,338.69	10.54
	11,803,778.00	1,002,450.47	241,988.84	10,559,338.69	10.54

Funding Type: 04 Spec Proj w/o Dedicate Rev Str

### 94 Special Projects

9404 Renewable Energy Projects	89,191.00	113,885.35	0.00	(24,694.35)	127.69
9409 SunGard ERP Project	102,594.00	1,839.69	102,593.30	(1,838.99)	101.79
9415 Issuance Costs	0.00	0.00	0.00	0.00	0.00
Total Special Projects	191,785.00	115,725.04	102,593.30	(26,533.34)	113.83
	191,785.00	115,725.04	102,593.30	(26,533.34)	113.83



# Albuquerque Bernalillo County Water Utility Authority

## DEBT SERVICE FUND - 31 Month Ending June 2018 - Unaudited

	Current Month	FY18 YTD	FY18 Budget	FY18 Projection
<b>Sources:</b>				
Utility Expansion Charges	724,495.45	10,397,748.95	8,000,000.00	8,000,000.00
Transfer from Fund 621	5,909,000.00	70,908,000.00	70,908,000.00	70,908,000.00
Total Sources	6,633,495.45	81,305,748.95	78,908,000.00	78,908,000.00
Beginning Unrestricted Balance	52,465,967.00 *	52,465,967.00 *	52,465,967.00 *	52,465,967.00 *
<b>Total Sources &amp; Beginning Balance</b>	<b>59,099,462.45</b>	<b>133,771,715.95</b>	<b>131,373,967.00</b>	<b>131,373,967.00</b>

### Expenses/Appropriations:

Bonds Series 2009A-1 Basic	Principal	0	5,165,000	5,165,000.00	5,165,000.00
\$51.415	Interest	290,663	447,142	630,175.00	630,175.00
Bonds Series 2009A-1 NMU	Principal	0	1,735,000	1,735,000.00	1,735,000.00
\$58.620	Interest	0	229,875	229,875.00	229,875.00
Bonds Series 2009A-1 SJC	Principal	0	195,000	195,000.00	195,000.00
\$6.730	Interest	0	25,875	25,875.00	25,875.00
Bonds Series 2009A-1 SWRP	Principal	0	565,000	565,000.00	565,000.00
\$19.225	Interest	0	74,625	74,625.00	74,625.00
Bonds Series 2013A Basic	Principal	0	3,735,000	3,735,000.00	3,735,000.00
\$62.95	Interest	1,187,815	2,505,687	2,600,125.00	2,600,125.00
Bonds Series 2013B	Principal	0	4,720,000	4,720,000.00	4,720,000.00
\$55.265	Interest	763,890	1,672,291	1,792,250.00	1,792,250.00
Bonds Series 2014A	Principal	0	7,910,000	7,910,000.00	7,910,000.00
\$97.27	Interest	1,972,251	4,204,371	4,403,912.50	4,403,912.50
Bonds Series 2014B	Principal	0	10,695,000	10,695,000.00	10,695,000.00
\$87.005	Interest	1,472,326	3,208,272	3,424,975.00	3,424,975.00
Bonds Series 2015	Principal	0	3,210,000	3,210,000.00	3,210,000.00
	Interest	4,491,541	9,292,695	9,472,547.50	9,472,547.50
Bonds Series 2017	Principal	0	0	0.00	0.00
	Interest	1,387,951	3,763,549	3,553,661.46	3,553,661.46
NMFA Loan No. 04 1727-AD	Principal	0	503,185	503,185.00	503,185.00
\$10.40	Interest	22,639	146,130	147,784.04	147,784.04
NMFA Loan No. 07 2316-ADW	Principal	0	47,732	47,732.00	47,732.00
\$1M	Interest	3,435	7,208	7,444.72	7,444.72
NMFA Loan No. 15 Basic	Principal	3,280,000	3,280,000	3,280,000.00	3,280,000.00
\$37.740	Interest	681,532	1,101,412	1,116,250.00	1,116,250.00
NMFA Loan No. 15 Reuse	Principal	309,725	309,725	309,725.42	309,725.42
\$10.660	Interest	212,292	424,583	424,583.36	424,583.36
NMFA Loan No. 15 SJC	Principal	145,275	145,275	145,274.58	145,274.58
\$5.000	Interest	99,574	199,148	199,147.88	199,147.88
NMFA Loan 3544-WTB	Principal	0	669,550	669,550.00	669,550.00
	Interest	0	447	3,896.41	3,896.41
Rounding	Principal	0	0	533.00	533.00
	Interest	0	0	(127.87)	(127.87)
<b>Total Principal &amp; Interest</b>		<b>16,320,909.73</b>	<b>70,188,778.09</b>	<b>70,993,000.00</b>	<b>70,993,000.00</b>

### Other Expenses:

Transfer to Capital	500,000.00	6,000,000.00	6,000,000.00	6,000,000.00
Refund Escrow	-	-	-	-
Total Other Expenses	500,000.00	6,000,000.00	6,000,000.00	6,000,000.00

<b>Total Expenses/Appropriations</b>	<b>16,820,909.73</b>	<b>76,188,778.09</b>	<b>76,993,000.00</b>	<b>76,993,000.00</b>
Year-End Adjustments		(1,162,454.63)		
<b>ENDING UNRESTRICTED BALANCE</b>	<b>42,278,552.72</b>	<b>56,420,483.23</b>	<b>54,380,967.00</b>	<b>54,380,967.00</b>

\*audited

Total Principal	3,735,000.00	-	42,885,467.00	42,886,000.00	42,886,000.00
Total Interest	12,585,909.73	-	27,303,311.09	28,107,000.00	28,107,000.00
	16,320,909.73	-	70,188,778.09	70,993,000.00	70,993,000.00



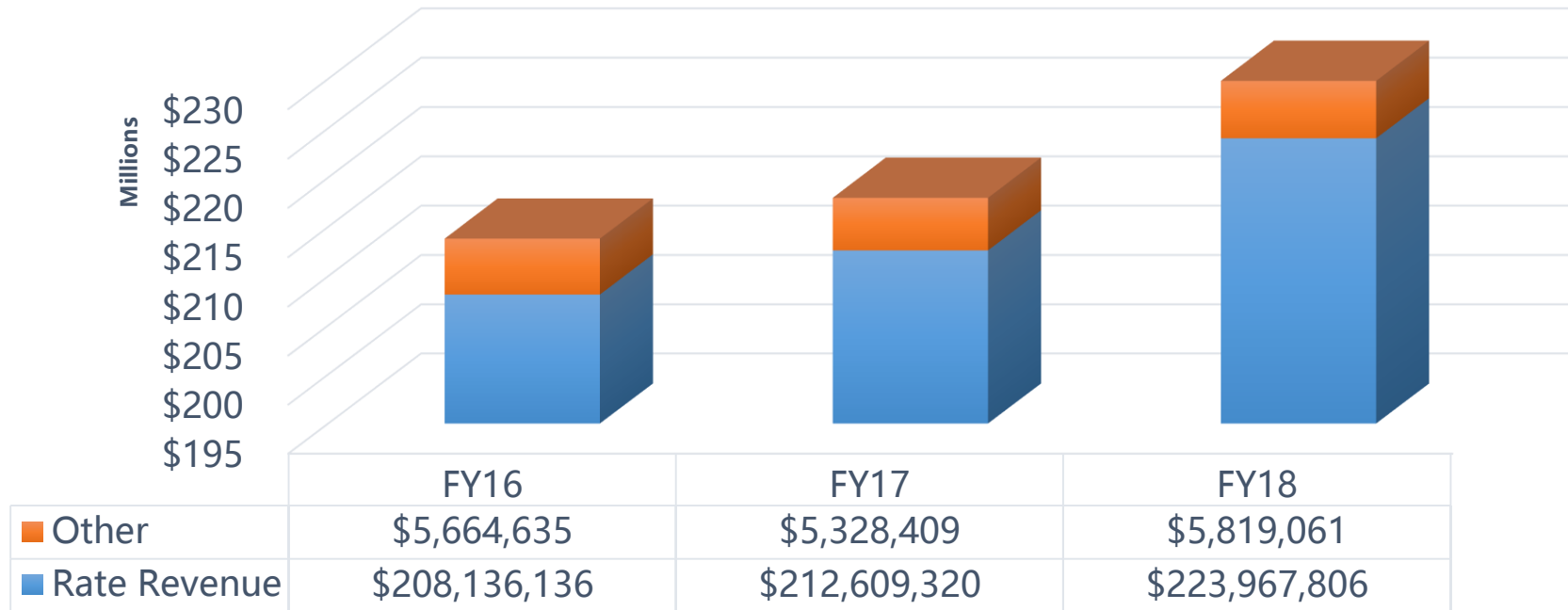
# Fiscal Year 2018

## 4th Quarter Dashboard



Albuquerque Bernalillo County  
Water Utility Authority

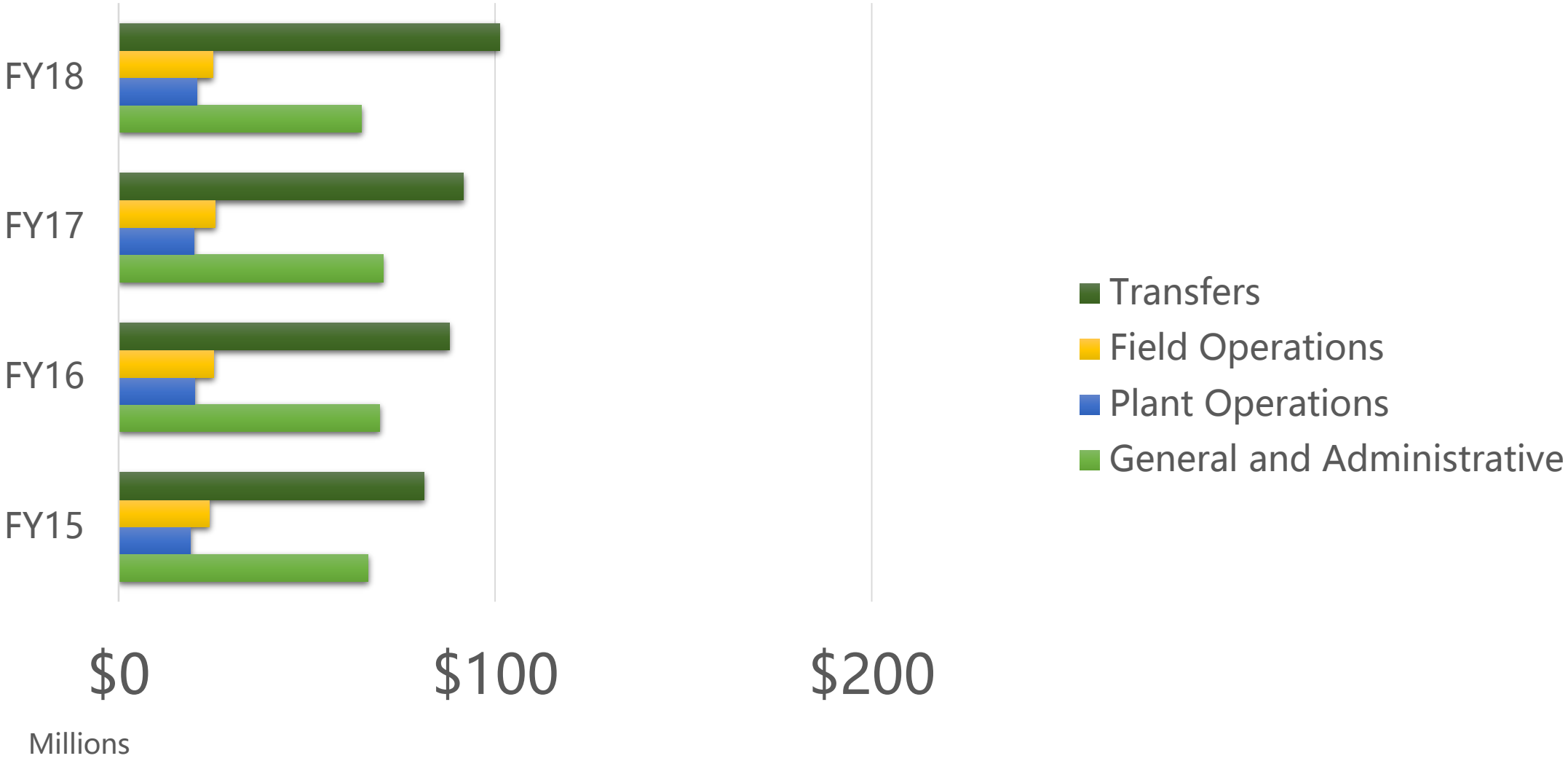
## Year-To-Date (YTD) Operating Revenue



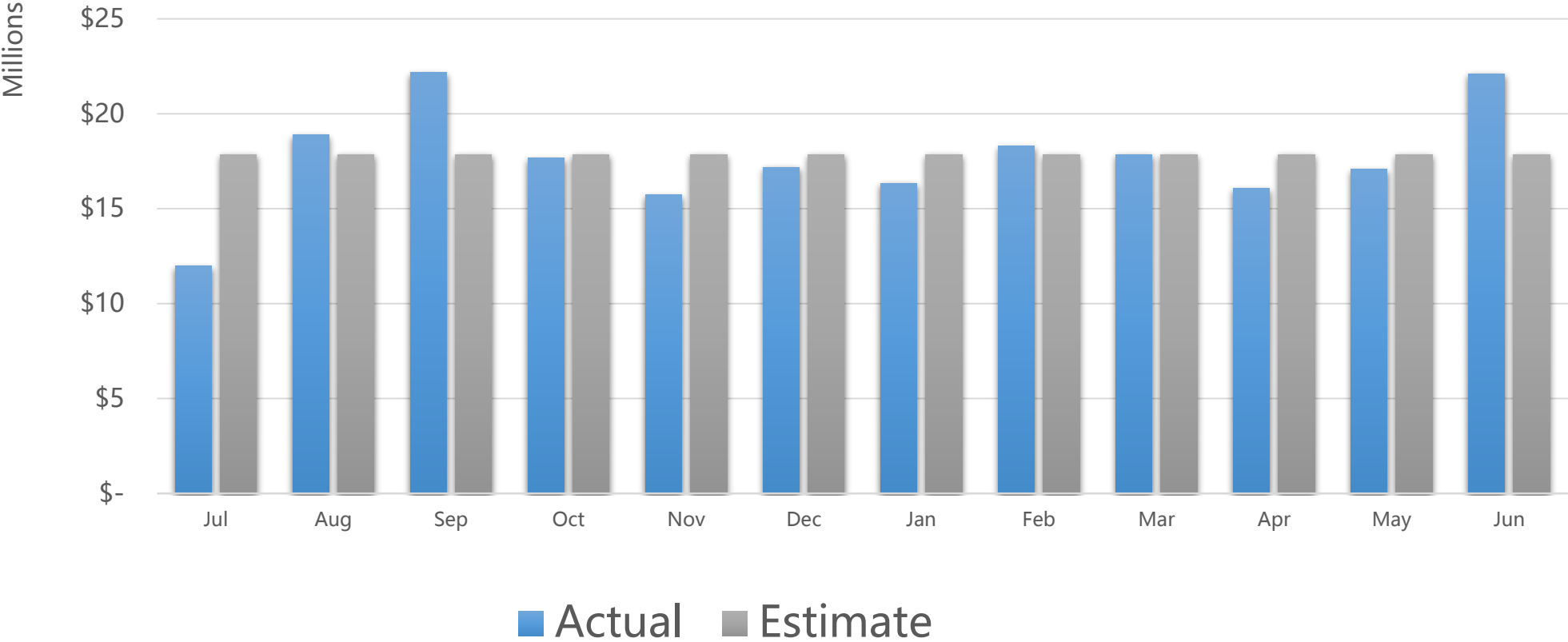
Albuquerque Bernalillo County  
Water Utility Authority



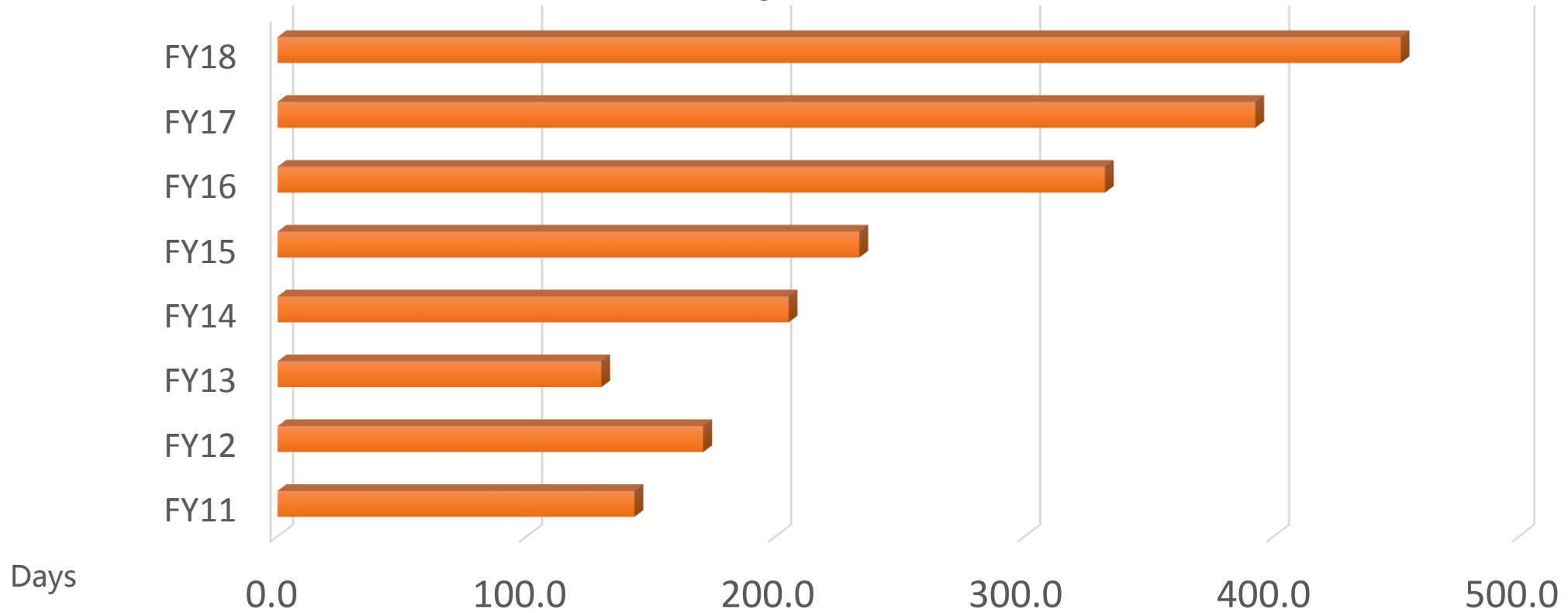
Year-To-Date (YTD) Operating Expenses



# Operating Expenditures by Month Compared to Estimate

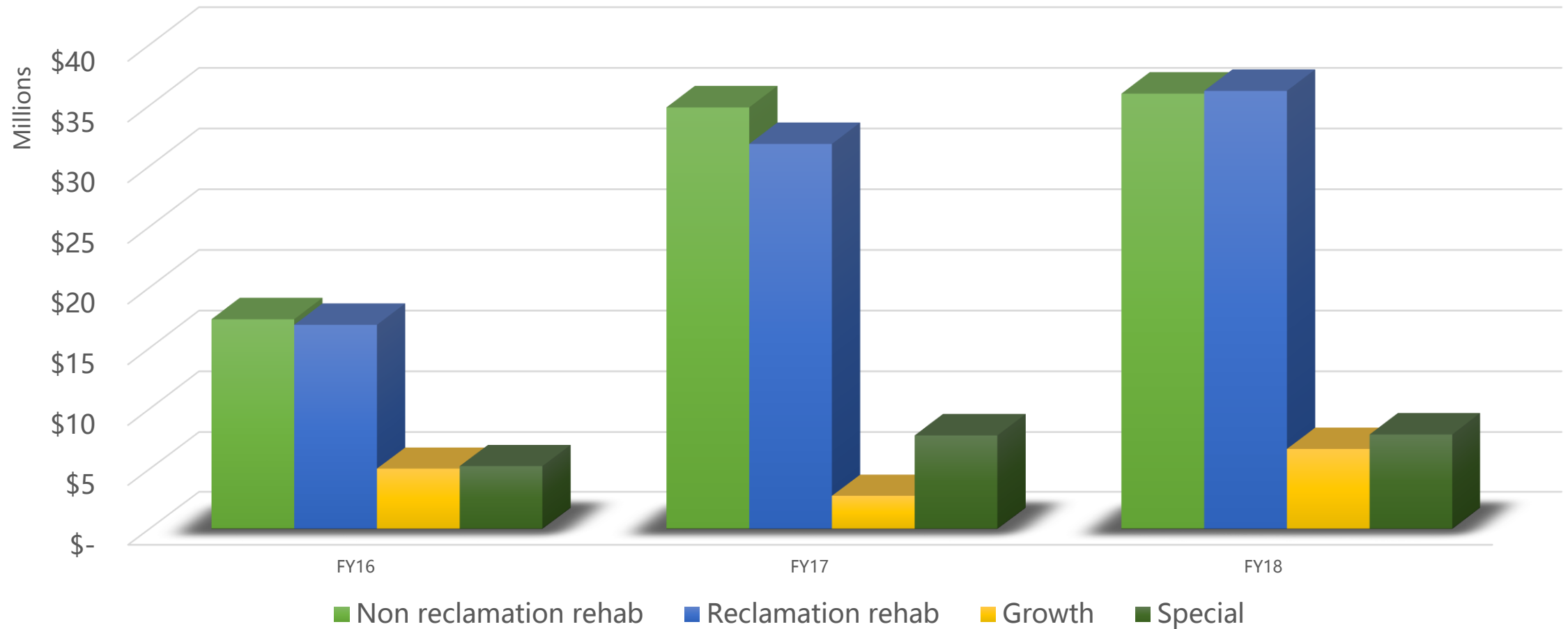


## Days Cash on Hand



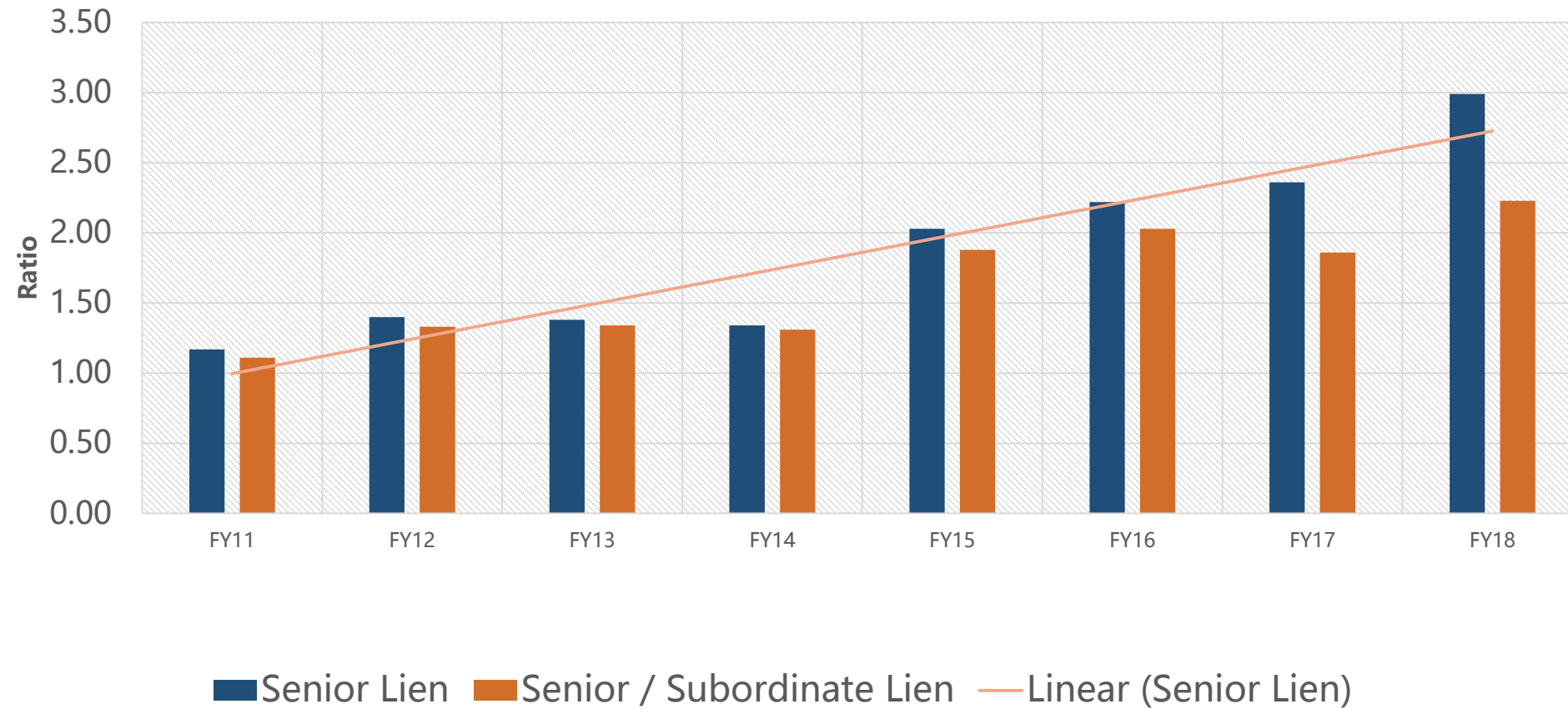
Albuquerque Bernalillo County  
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## YTD Decade Plan Expenditures by Category for 4th Quarter



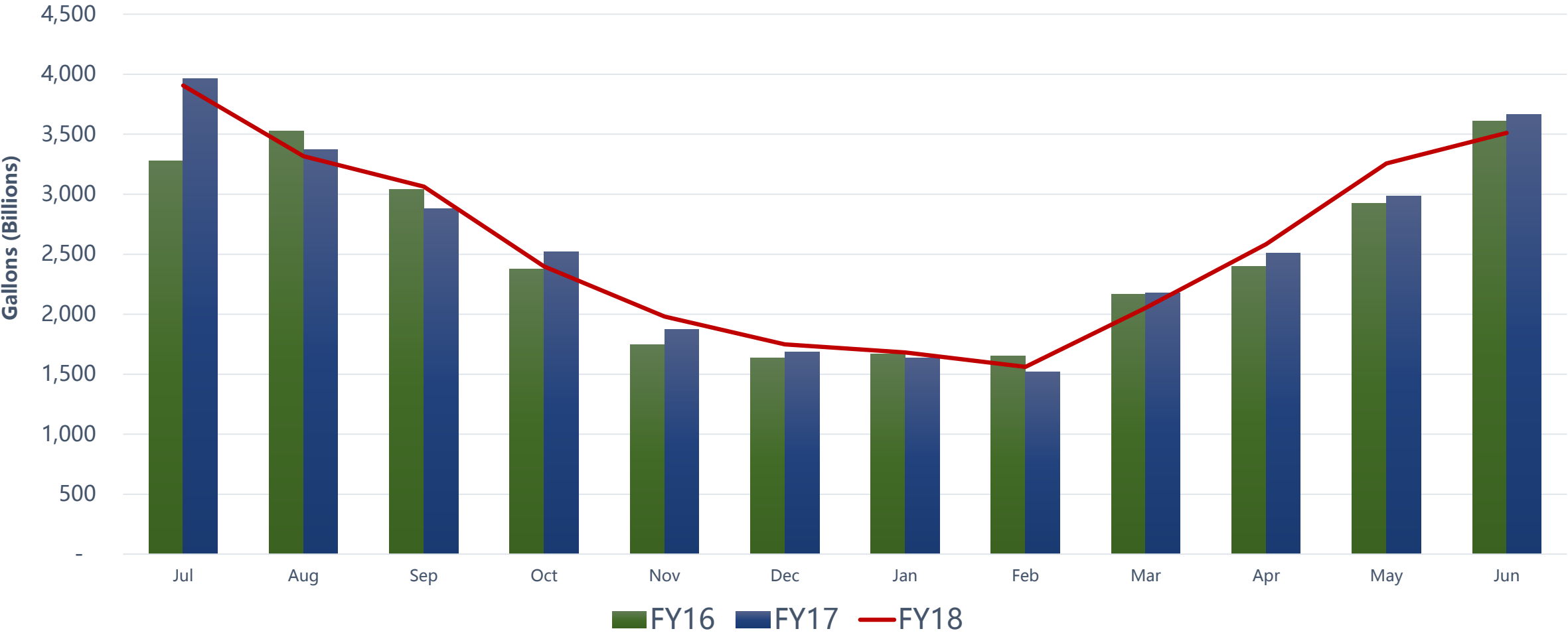
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## Debt Coverage Ratio

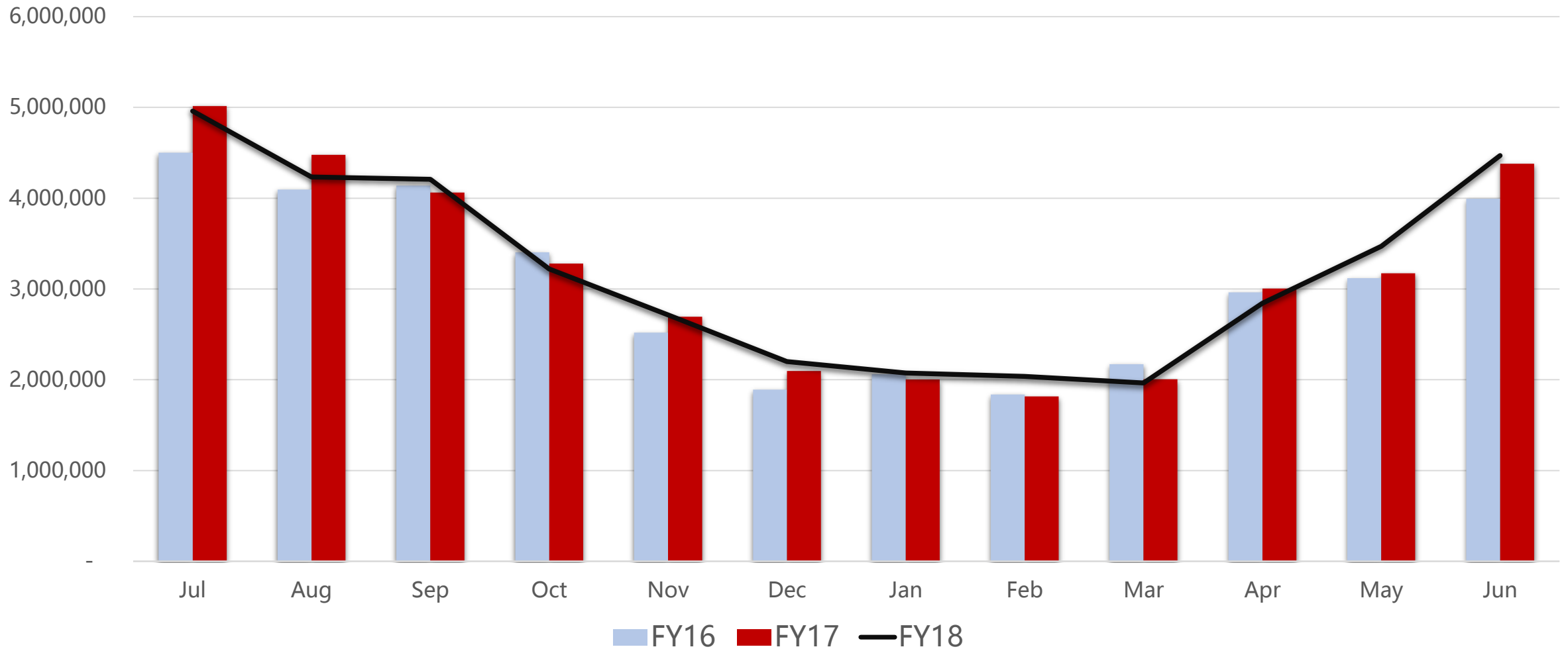


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# Water Use Production



# Water Consumption

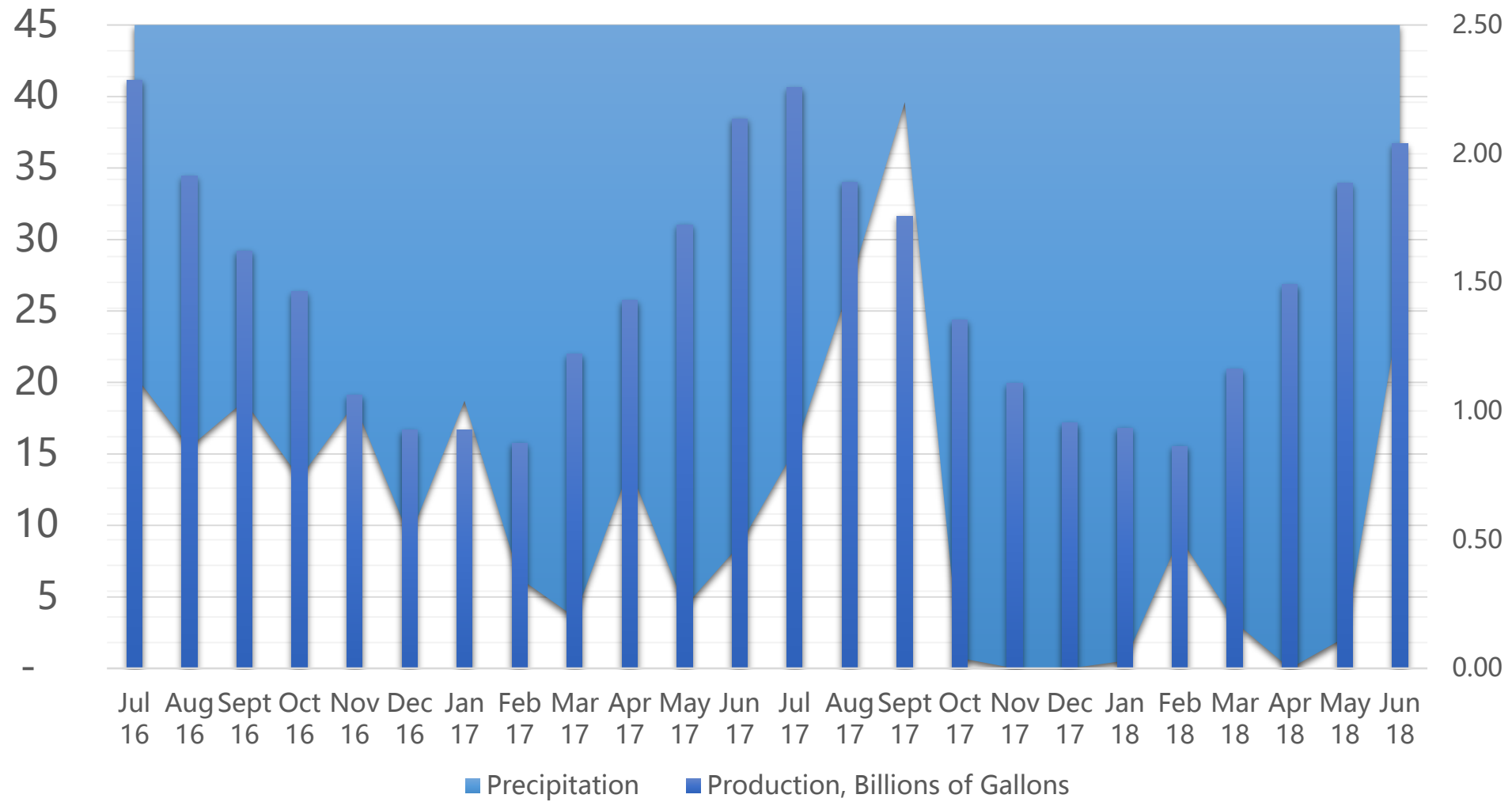


Albuquerque Bernalillo County  
Water Utility Authority

x 100000000

## Production vs Area Precipitation 2016-2018

Rainfall Inches



Albuquerque Bernalillo County  
Water Utility Authority



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Meeting Date: September 19, 2018  
Staff Contact: Frank Roth, Senior Policy Manager

**TITLE: C-18-31 – FY2018 Fourth Quarter Performance Indicator Report**

**ACTION: Receipt be Noted**

**SUMMARY:**

The Fourth Quarter Performance Report provides a snapshot of utility performance. The Scorecard Indicators are categorized by Level of Service areas. The Scorecard Indicators are developed through benchmarking and performance assessments to identify performance gaps and to establish targets to address the gaps. The Scorecard Indicators Targets are linked to performance benchmarking, the Goals and Objectives, Customer Opinion Survey responses, and Effective Utility Management. The purpose of this report is to provide a one page snapshot of the utility's performance so that stakeholders can easily gauge how the utility is performing in these Level of Service areas which is consistent with feedback received through the Customer Conversation forums.

The report identifies the fiscal year-to-date performance compared to the established target. A status of each indicator is provided in three categories: target achieved, work in progress, or target not met. Below is a summary status of the 22 Scorecard Indicators.

Summary Status

On Target / Target Achieved	Work in Progress / Below Target	Target Not Met
19 of 22	3 of 22	0 of 22

**FISCAL IMPACT:**

None

## Quarterly Performance Indicators FY18 4th Quarter Scorecard

Level of Service Area	Indicator	FY18 4Q Actual	FY18 Target	Status
Regulatory	Number of Permit Excursions	0	<= 5	▲
	Reported Overflows	34	< 40	▲
	Sewer Use/Wastewater Control Ordinance Compliance	89% Permitted Industrial Users 86% Food Service Est. 96% Dental Offices	87% Permitted Industrial Users 87% Food Service Est. 87% Dental Office	■
Reliability	Facility Planned Maintenance Ratios	59% ground water 58% surface water 33% water reclamation	66% ground water 55% surface water 30% water reclamation	■
	Leak Detection Leaks Located / GPY Water Loss Reduction	876 miles surveyed 4,261 miles monitored 78 leaks found 68 MGY water loss reduced	650 miles surveyed 2,200 miles monitored > 80 leaks found 105 MGY water loss reduced	■
	Miles of Small Diameter Sewer Line Cleaned	549	Btw. 400 to 600 miles	▲
	Miles of Sewer Line Televised	36	Btw. 20 to 30 miles	▲
	Injury Time	2,220 hours	< 2,700 hours	▲
Quality	Water Quality Complaints Rate (per 1,000 customers)	2	< 3	▲
	% of Biosolids to Compost	59%	> 30%	▲
	Renewable Energy	21% Bio Gas 6% Solar	20% Bio Gas 5% Solar	▲
	Water Consumption	10.3 BGY GW 21.1 BGY SW	< 18 BGY GW > 16 BGY SW	▲
Customer Service	Wait Time (minutes)	0:29 minutes	< 2 minutes	▲
	Contact Time (minutes)	3:48 minutes	< 4 minutes	▲
	Abandoned Call Ratio	2%	<8%	▲
	First Call Resolution	98%	> 90%	▲
	Bill Exception Rate (per 10,000 Bills)	8	<= 8	▲
Finance	Rehabilitation Spending	\$75 million	\$56 million	▲
	Pipe Infrastructure Emergency vs. Planned Spending	57% Planned 43% Emergency	50% Planned 50% Emergency	▲
	Cash Reserves (Days)	463 days	Btw. 90-179 days	▲
	Revenue to Expenditures	103%	> 100%	▲
	Expenditures to Budget	94%	< 100%	▲

### Performance Key

▲  
On Target/Target Achieved

■  
Work in Progress / Below Target

▼  
Target Not Met

---

Meeting Date: September 19, 2018

Staff Contact: Kristopher Cadena, Principal Engineer, Utility Development

**TITLE: C-18-32 – Approving Service Connection Agreement for Water and Sewer Service with Kidz Academy Preschool LLC at 10751 Fineland Dr. NW**

**ACTION: Recommend Approval**

**SUMMARY:**

Kidz Academy Preschool LLC. desires to connect to existing water and wastewater infrastructure located at 10751 Fineland Dr. NW. The undeveloped property is located on the southwest corner of Crown Rd. and Fineland Dr. The property is currently undeveloped land that is proposed to construct a day care center to be named “Kidz Academy”. The development is located outside of the Water Authority’s Adopted Service Area, but within the City of Albuquerque. No additional infrastructure requirements are needed to provide water and wastewater service to this property other than a service agreement approved by the Water Authority Board.

As a condition of service, the owner will be required to:

- Comply with the ordinances, resolutions, plans, and regulations of the Water Authority
- Obtain concurrent water and wastewater service
- Pay the Utility Expansion Charge (UEC) at the rates that are imposed at the time of a service connection
- Pay the Water Supply Charge

**FISCAL IMPACT:**

None

**SERVICE CONNECTION  
AGREEMENT**

**Kidz Academy  
Preschool LLC  
2643 Violeta  
Circle SE  
Albuquerque, NM  
87124**

**Albuquerque Bernalillo County Water Utility Authority**, a New Mexico political subdivision ("Water Authority") and Kidz Academy Preschool LLC, whose address is 2643 Violeta Circle SE Rio Rancho, NM 87124, agree as follows:

**1. Recitals**

- A. Kidz Academy Preschool LLC ("Owner") is the owner of 10751 Fineland Dr. NW Albuquerque, NM 87114 (Legal Description: PARCEL A-1 BULK LAND PLAT PARCELS A-1, B-1, D-1, E-1 AND F-1 FINELAND DEVELOPMENT CONT 4.3314 AC) ("Property"), more particularly described and as shown in the Serviceability Statement for the Property. The Serviceability Letter for the Property reflecting request for service referred to in this Agreement is attached hereto as **Exhibit A** and incorporated herein by reference.
- B. The property is located outside the Water Authority's Adopted Service Area within the region previously serviced by New Mexico Utilities, Inc.
- C. Owner desires to connect to existing water and waste water infrastructure with a 4" sewer service line, 1.5" domestic water line, and a 6" fire line.
- D. Water service to the Property will be taken from the existing 8" distribution main along Crown Rd. Wastewater service to the Property will tie into the existing 8" collector line along the west property border. Installation of services shall be performed under the standard tapping permit or mini-work order process.
- E. All developments located outside of the Water Authority's service area will be assessed a Water Resource Charge (WRC) as provided in the Water Authority's Water and Sewer Rate Ordinance for the development of new water resources, rights and supplies necessary to serve the development.

**2. Service**

- A. Owner shall comply with the Water Authority's Water and Sewer System Expansion Ordinance, as amended from time to time. Connection for water service shall require concurrent sewer service connection to the Water

Authority's wastewater system.

- B.** Owner shall pay Utility Expansion Charges ("UECs") at the rates that are imposed at the time of a service connection, as provided in the Water Authority's Water and Sewer Rate Ordinance, as amended from time to time.
  - C.** Owner shall pay all outstanding Pro Rata assessments in full at the time of service application.
  - D.** Pursuant to Water Authority Resolution No. R-05-13, Owner agrees that it shall incorporate water conservation guidelines that shall achieve water usage of seventy-five (75) gallons per capita per day.
- 3. Termination.** If construction of the Connection to the waterline and sanitary sewer modifications by Owner has not been completed and accepted by the Water Authority within seven (7) years of the effective date of this Agreement, this Agreement shall automatically terminate, and the Water Authority and Owner shall have no further rights, obligations, or liabilities with respect to this Agreement, unless otherwise agreed in writing.
- 4. Indemnification.** Owner will indemnify and hold harmless the Water Authority and its officials, agents, and employees from any claims, actions, suits, or other proceedings arising from the acts or omissions of Owner, its agents, representatives, contractors, or subcontractors, or arising from the failure of Owner, its agents, representatives, contractors, or subcontractors to perform any act or duty required of Owner herein. The indemnification by Owner will not extend to the negligent acts of the Water Authority.
- 5. Representations and Warranties of Owner.** Owner represents and warrants that:
  - A.** Owner is validly existing under the laws of the State of New Mexico.
  - B.** Owner has all the requisite power and authority to enter into this Agreement and bind Owner under the terms of the Agreement; and
  - C.** The undersigned officer of Owner is fully authorized to execute this Agreement on behalf of Owner.
- 6. Notices.** Any notice to be given under this Agreement will be in writing and will be deemed to have been given when deposited in the United States Mail postage prepaid addressed:

If to the Water Authority:  
Mark S. Sanchez  
Executive Director  
Albuquerque Bernalillo County  
Water Utility Authority  
One Civic Plaza, Room 5012  
Albuquerque, New Mexico 87102

If to Owner:

Keith Griego  
Kidz Academy Preschool LLC  
2643 Violeta Circle SE  
Rio Rancho, NM 87124

- 7. Assignment.** This Agreement will not be assigned without the prior written consent of the Water Authority and Owner.
- 8. Miscellaneous.** This Agreement will be governed by and interpreted in accordance with the laws of the State of New Mexico. The headings used in this Agreement are for convenience only and shall be disregarded in interpreting the substantive provisions of the Agreement. This Agreement binds and benefits the Water Authority and their successors, assigns, and transferees and The Owner and their successors, assigns and transferees. Time is of the essence of each term of this Agreement. If any provision of this Agreement is determined by a court of competent jurisdiction to be void, invalid, illegal, or unenforceable, that portion will be severed from this Agreement and the remaining parts will remain in full force as though the invalid, illegal, or unenforceable portion had never been a part of this Agreement.
- 9. Integration; Interpretation.** This Agreement contains or expressly incorporates by reference the entire agreement of the parties with respect to the matters contemplated by this Agreement and supersedes all prior negotiations. This Agreement may only be modified in writing executed by both parties.
- 10. Approval.** This Agreement is subject to the approval of the Board of Directors of the Water Authority and will not become effective until approved by the Water Authority.
- 11. Effective Date.** The effective date of this Agreement is the date last entered below.

In Witness Whereof, the parties hereto have executed this Agreement on the dates entered below.

**Albuquerque Bernalillo County  
Water Utility Authority**

**Owner**

By: \_\_\_\_\_  
Mark S. Sanchez  
Executive Director

By: \_\_\_\_\_  
Keith Griego  
Owner

Date: \_\_\_\_\_

Date: \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

This instrument was acknowledged before me on this \_\_\_\_ day of \_\_\_\_\_, by \_\_\_\_\_ [name] \_\_\_\_\_, [title] of \_\_\_\_\_, [company name], a \_\_\_\_\_ [type of entity], on behalf of said company.

—

\_\_\_\_\_  
Notary Public

My Commission Expires:

\_\_\_\_\_

STATE OF NEW MEXICO )  
 ) ss.  
COUNTY OF BERNALILLO )

This instrument was acknowledged before me on this \_\_\_\_ day of \_\_\_\_\_, by Mark S. Sanchez, Executive Director of the Albuquerque Bernalillo County Water Utility Authority, a political subdivision of the State of New Mexico, on behalf of said political subdivision.

—

\_\_\_\_\_  
Notary Public

My Commission Expires:

\_\_\_\_\_



## Exhibit A

April 9, 2018

**Chair**

Trudy E. Jones  
City of Albuquerque  
Councilor, District 8

**Vice Chair**

Debbie O'Malley  
County of Bernalillo  
Commissioner, District 1

Pat Davis  
City of Albuquerque  
Councilor, District 6

Timothy M. Keller  
City of Albuquerque  
Mayor

Klarissa J. Peña  
City of Albuquerque  
Councilor, District 3

Steven Michael Quezada  
County of Bernalillo  
Commissioner, District 2

Lonnie Talbert  
County of Bernalillo  
Commissioner, District 4

*Ex-Officio Member*  
Pablo R. Rael  
Village of Los Ranchos  
Board Trustee

*Executive Director*  
Mark S. Sanchez

*Website*  
[www.abcwua.org](http://www.abcwua.org)

David Soule  
Rio Grande Engineering of New Mexico LLC  
PO Box 93924  
Albuquerque, New Mexico 87122

**RE: Water and Sanitary Sewer Serviceability Letter #180113  
Kidz Academy  
10751 Fineland Dr. NW**

Dear Mr. Soule:

**Project Description:** The subject site is located on the southwest corner of Crown Rd. and Fineland Dr. within the City of Albuquerque. The property consists of approximately one acre and is currently zoned SU-1 for commercial use. The property lies within the Pressure Zone 3W in the Corrales trunk. The request for information indicates plans to construct a day care center to be named "Kidz Academy".

**Service Connection Agreement:** As this development is outside the Water Authority's Adopted Service Area, a Service Connection Agreement must be executed between the owner and the Water Authority. The developer shall coordinate with the Utility Development Section of the Water Authority in order to execute this Service Connection Agreement.

**Existing Conditions:** Water infrastructure in the area consists of the following:

- Eight inch PVC distribution main (project #26-7772.82-09) along Crown Rd.
- Ten inch PVC distribution main (project #26-7772.85-15) along Fineland Dr.

Sanitary sewer infrastructure in the area consists of the following:

- Eight inch PVC collector line (project #26-7772.83-12) along the west property border.
- Eight inch PVC collector line (project #26-7772.82-09) along Crown Rd.
- Eight inch PVC collector line stub (project #26-7089.81-04) at the intersection of Crown Rd. and Fineland Dr.

**Water Service:** New metered water service to the property can be provided via routine connection to the existing infrastructure mentioned above. Existing metered service and fire lines that will not be utilized are to be removed by shutting the valve near the distribution main and capping the line near the valve. For fire lines, the valve access shall be grouted and collar removed. Service is also contingent upon compliance with the Fire Marshal's instantaneous fire flow requirements. Please note that an existing eight inch fire line stub exists which is connected to the existing ten inch water line along Fineland Dr. for the proposed development. This infrastructure will need to be abandoned in the manner described prior to service if it is not utilized for the site. Water service will not be sold without adequate fire protection. Water service will only be sold in conjunction with sanitary sewer service.



**Sanitary Sewer Service** can be provided via routine connection to the existing infrastructure mentioned. All food service establishments must install a grease trap upstream of the domestic private sewer connection prior to discharge into the public sanitary sewer lines.

**Fire Protection:** From the request for availability the instantaneous fire flow requirements for the project are 1,750 gallons-per-minute with one required fire hydrant. As modeled using InfoWater™ computer software, the fire flow can be met. As indicated on the Fire Marshal approved Fire One Plan the analysis was taken from the proposed hydrant along Crown Rd. A second fire hydrant located along Fineland Dr. was approved on the Fire One Plan. Any changes to the proposed connection points shall be coordinated through Utility Development. All new required hydrants as well as their exact locations must be determined through the City of Albuquerque Fire Marshal's Office and verified through the Utility Development Office prior to sale of service. Engineer is responsible for determining pressure losses and sizing of the private water line(s) downstream of the public water line to serve the proposed fire hydrants and/or fire suppression system.

**Cross Connection Prevention:** Per the Cross Connection Ordinance, all new non-residential premises must have a reduced pressure principle backflow prevention assembly approved by the Water Authority and installed at each domestic service connection at a location accessible to the Water Authority. All new fire line services to fire protection systems shall be equipped with a reduced pressure principle backflow prevention assembly approved by the Water Authority and Fire Marshal having jurisdiction at each service connection. A double check valve assembly approved by the Water Authority and Fire Marshal having jurisdiction may be installed instead of a reduced pressure backflow prevention assembly provided the fire protection system contains ANSI/NSF Standard 60 or 61 water piping throughout the entire fire protection system, the fire sprinkler drain discharges into atmosphere, and there are no reservoirs, fire department connections, connections from auxiliary water supplies, antifreeze nor other additives. The Water Authority requests that all backflow (containment) devices be located above ground just outside the easement or roadway right-of-way. Contact Cross Connection at 289-3439 for more information.

**Easements:** Exclusive public water and sanitary sewer easements are required for all public lines that are to be constructed outside of any dedicated rights-of-way. A minimum width easement of 20 feet is required for a single utility and 25 feet for water and sewer both within the same easement. Easements for standard sized water meters need to be five feet by five feet and include the length of the water service if located on private property. For larger meters that require a meter vault, a 35 feet by 35 feet easement is required. Actual easement widths may vary depending on the depth of the lines to be installed. Acceptable easements must be documented prior to approval of service.

**Pro Rata:** Pro Rata is not owed and the property can utilize the services available upon completion of the requirements of this statement to connect to water and sanitary sewer.

**Design and Construction** of all required improvements will be at the developer / property owner's expense. Improvements must be coordinated through the Water

Authority mini work order process. Construction must be by a licensed, bonded, public utility contractor.

**Costs and Fees:** In addition to installation and construction costs, any new metered water services will be subject to both water and sanitary sewer Utility Expansion Charges (UEC) payable at the time of service application. All charges and rates collected will be based on the ordinances and policies in effect at the time service is actually requested and authorized.

**Water Use:** All new commercial developments shall be subject to the requirements for water usage and water conservation requirements as defined by the Water Authority, particularly the Water Waste Ordinance. Where available, outdoor water usage shall utilize reclaimed water.

**Closure:** This serviceability letter does not provide a commitment from the Water Authority to provide services to the development. It only provides details of infrastructure that is available and potential precursors for the proposed development. For service to be provided, a Board approved service connection agreement must be supplemented by this serviceability letter. The serviceability letter will remain in effect for a period of one year from the date of issue and applies only to the development identified herein. Its validity is, in part, contingent upon the continuing accuracy of the information supplied by the developer. Changes in the proposed development may require reevaluation of availability and should be brought to the attention of the Utility Development Section of the Water Authority as soon as possible.

Please feel free to contact Mr. Kristopher Cadena in our Utility Development Section at (505) 289-3301 or email at [kcadena@abcwua.org](mailto:kcadena@abcwua.org) if you have questions regarding the information presented herein or need additional information.

Sincerely,



Mark S. Sanchez  
Executive Director

Enclosures: Infrastructure Maps (2)  
f/ Serviceability Letter 180113



180113



**Legend**

**Pipe**

**SUBTYPE**

-  Distribution Main
-  Hydrant Leg
-  In Zone Transmission
-  Hydrant
-  Valve

0 360 720 Feet



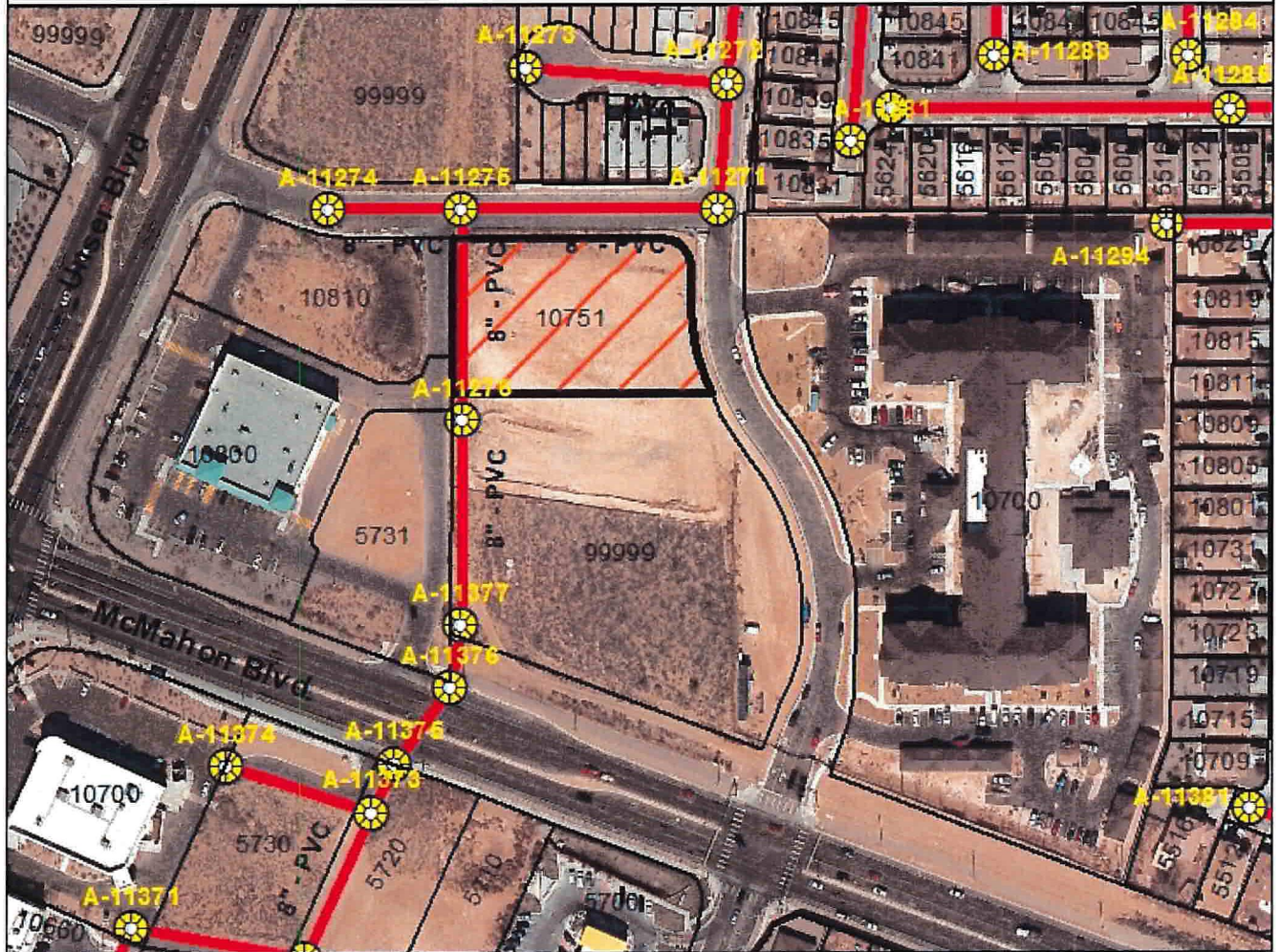
○ -- Fire Flow Analysis Points



**Water Utility  
Authority**



180113



### Legend

## Sewer Pipe

█ <all other values>

## SUBTYPE

COLLECTOR

**FORCE MAIN**

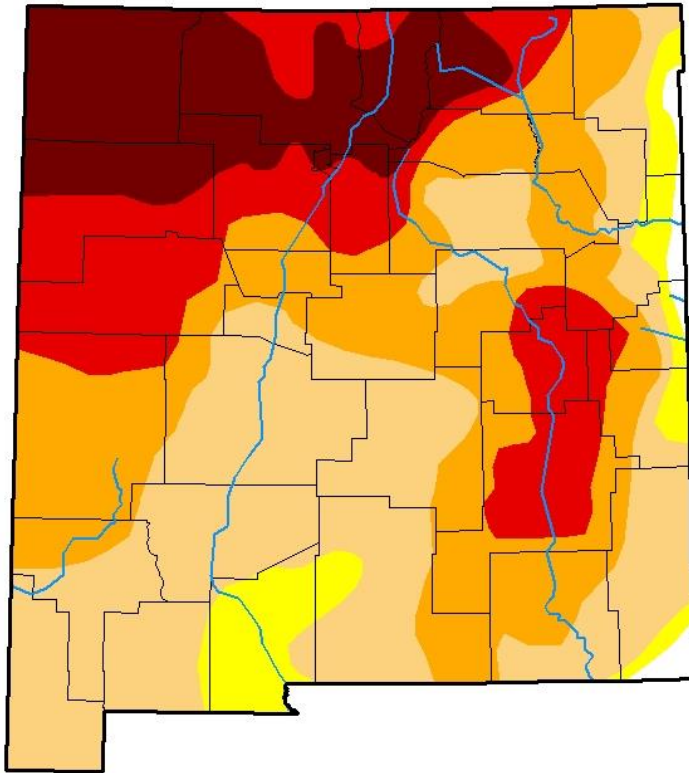
**INTERCEPT**

 Sewer Manhole

**Water Utility  
Authority**

# NM Drought

## U.S. Drought Monitor New Mexico



**September 11, 2018**

(Released Thursday, Sep. 13, 2018)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	1.04	98.96	93.27	59.48	31.84	14.54
<b>Last Week</b> 09-04-2018	0.81	99.19	93.96	60.10	34.07	14.54
<b>3 Months Ago</b> 06-12-2018	0.10	99.90	98.65	92.39	62.97	18.17
<b>Start of Calendar Year</b> 01-02-2018	7.01	92.99	45.97	4.76	0.00	0.00
<b>Start of Water Year</b> 09-26-2017	85.16	14.84	0.00	0.00	0.00	0.00
<b>One Year Ago</b> 09-12-2017	100.00	0.00	0.00	0.00	0.00	0.00

### Intensity:

D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought
D2 Severe Drought	

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

### Author:

David Miskus  
NOAA/NWS/NCEP/CPC



<http://droughtmonitor.unl.edu/>

## Water Use January 1 – September 9

23.000  
21.000  
19.000  
17.000  
15.000  
13.000  
11.000  
9.000  
7.000  
5.000  
3.000

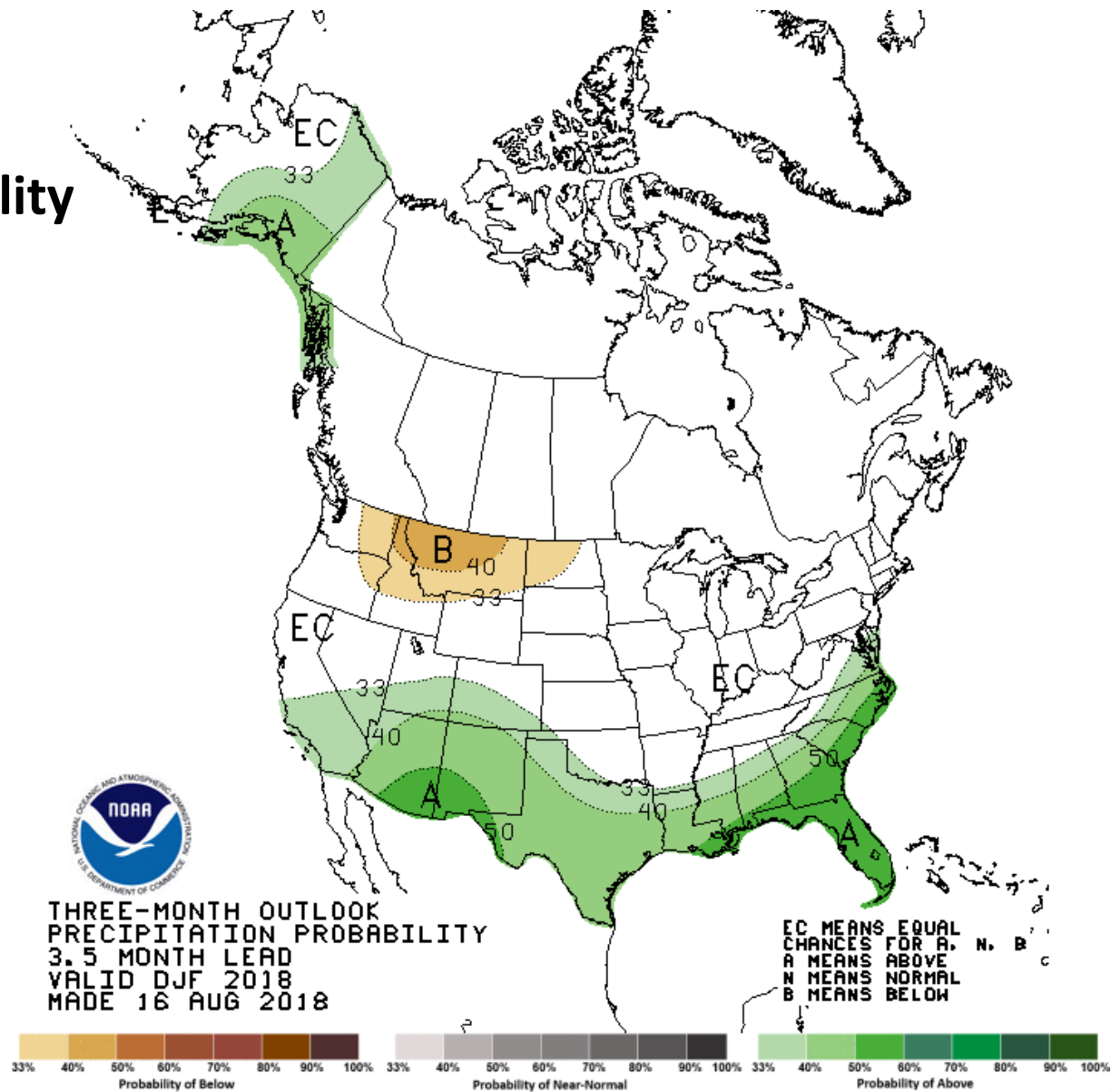
386 million gallons less used  
in 2018 compared to 2017. That's  
about 1.5 GPCD

2018 Rainfall through Sept 9 = 5.91"  
2017 Rainfall through Sept 9 = 5.45"

■ 2017 ■ 2018



# Current Winter Precipitation Probability Dec, Jan and Feb



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Meeting Date: September 19, 2018  
Staff Contact: Diane Agnew, Water Quality Hydrologist

**TITLE: Groundwater Source Water Assessment Update**

**ACTION: Information Only**

**SUMMARY:**

As part of the 2018 update to the Water Quality Protection Policy and Action Plan (WQPPAP), source water assessments were completed for both surface water and groundwater to determine each source's susceptibility to contamination.

The purpose of the Groundwater Source Water Assessment is to assess the threat from all potential contaminants to Water Authority supply wells. Eighty-three Water Authority wells were evaluated in the study. Each well was assigned a Source Water Protection Area that extends half a mile from the wellhead.

A well's susceptibility to contamination is based on two criteria: vulnerability and sensitivity. Vulnerability is an assessment of potential risks nearby that may jeopardize water quality for each water supply well. Sensitivity is an evaluation of a well's infrastructure and considers mitigation measures available that could prevent or minimize impact to a water supply well if a contamination event were to occur.

Potential sources of contamination are defined as any possible sites or events that could, under any circumstance and time frame, lead to contamination of a water system's sources. In response to increased interest in the potential for oil and gas activities within Bernalillo and Sandoval Counties, Water Authority staff evaluated the geologic resources, existing permits in the study area, and potential impacts of oil and gas activities. Gas wells identified within the study area are abandoned and no new permits were identified. There are no immediate concerns or risks to Water Authority sources from oil and gas exploration or production in or near the service area.

The assessment concluded that many of the programs being voluntarily implemented by the Water Authority are aligned with the recommended actions to protect water supply wells. Key recommendations from the assessment included continuing collaboration and coordination with local and state agencies as well as continuing public outreach and education, both of which the Water Authority has been leading efforts.

**FISCAL IMPACT:**

None

# Protecting Our Waters

A Groundwater Source Water Assessment  
Source Water Protection Plan

AWWA 2018 Exemplary Source Water Protection Award Winner



Albuquerque Bernalillo County  
Water Utility Authority



# Planning to Protect



What are the threats to our source waters?



What protection measures can reduce/eliminate threats?



What agencies/entities are involved?



Source Water Protection Plan



Albuquerque Bernalillo County  
Water Utility Authority

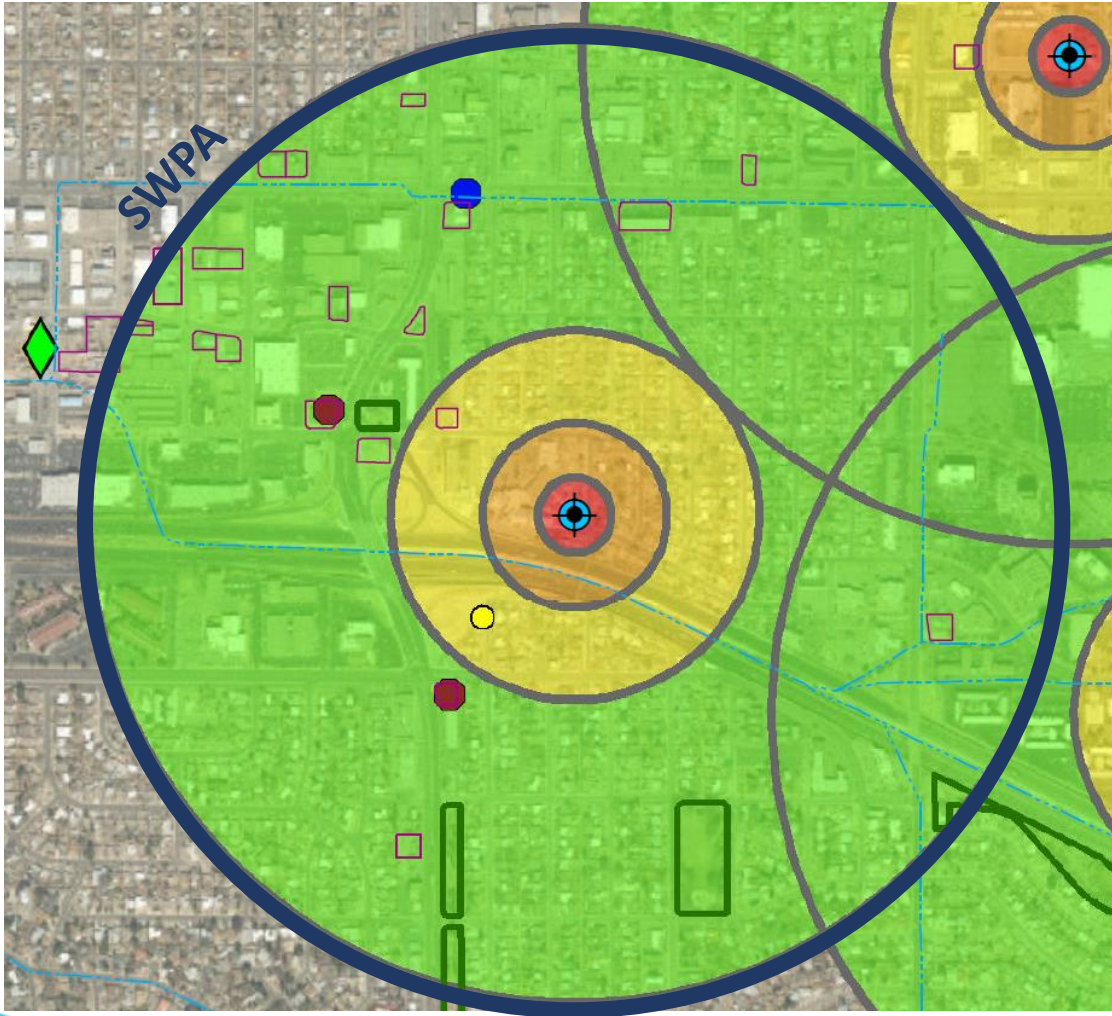
# Source Water Assessment

1. Delineate Source Water Protection Areas (SWPAs)
2. Conduct an inventory of potential sources of contamination (PSOCs)
3. Determine susceptibility of water supply to contamination

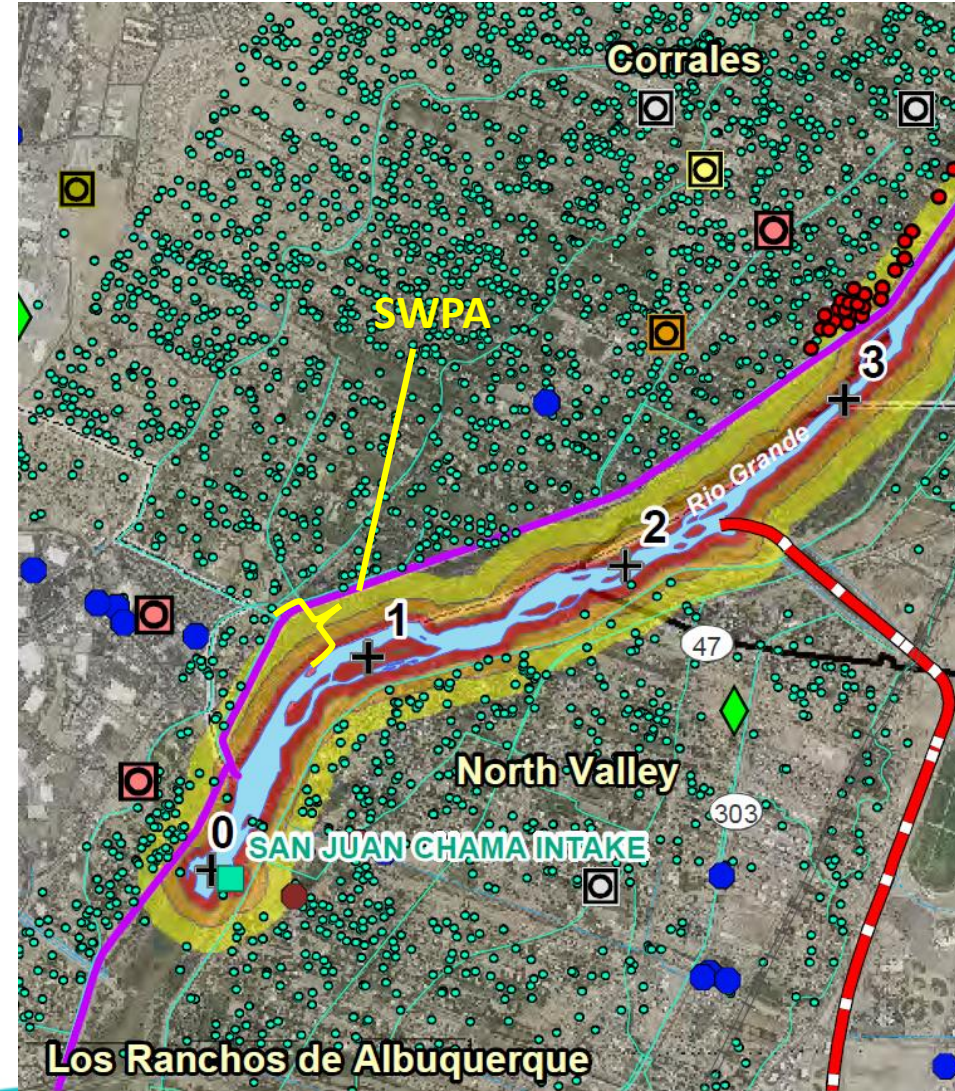




## Groundwater SWPA



## Surface Water SWPA

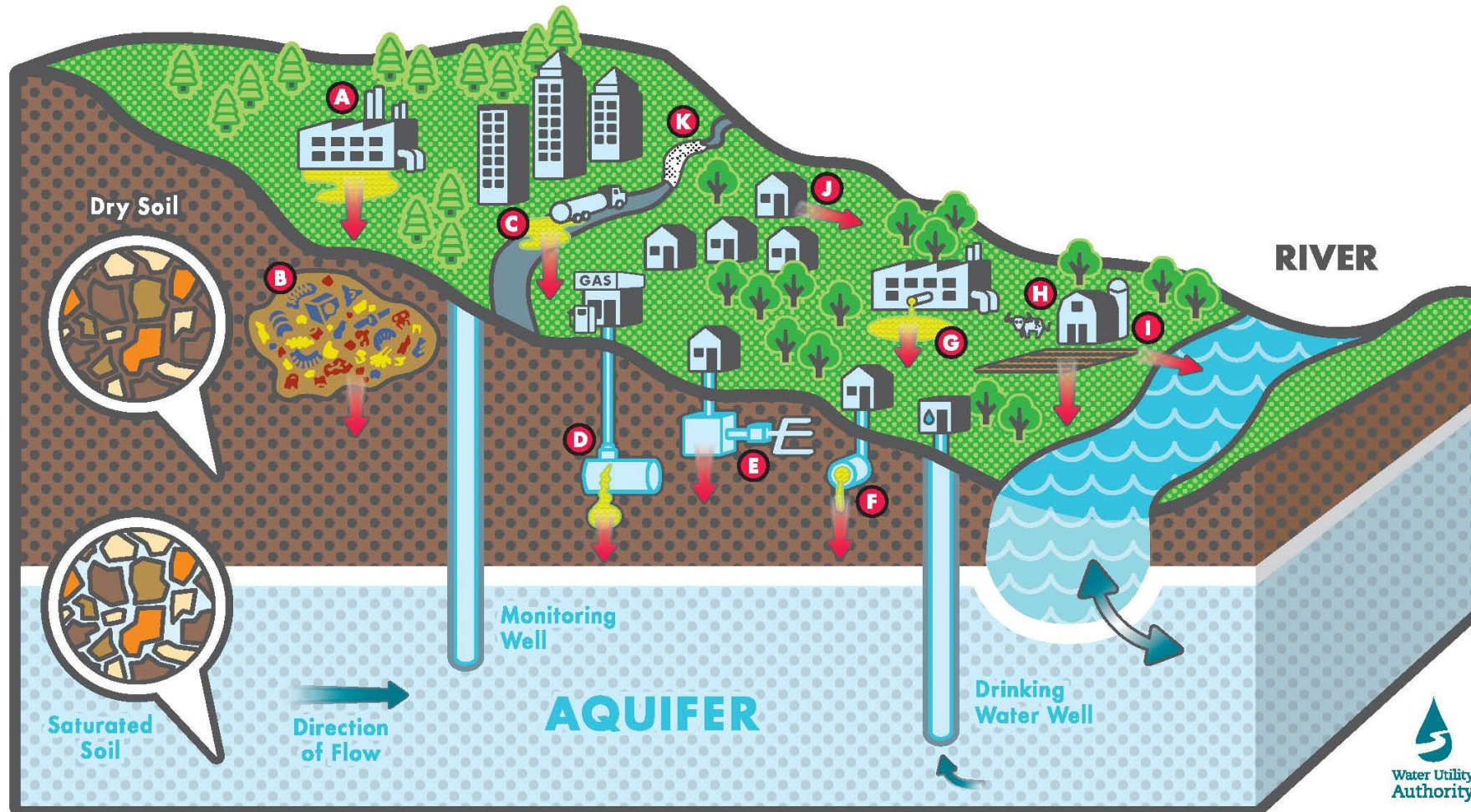


Albuquerque Bernalillo County  
Water Utility Authority



# POTENTIAL SOURCES OF GROUNDWATER CONTAMINATION

- |   |                                      |                                       |
|---|--------------------------------------|---------------------------------------|
| <b>A</b> Commercial and Industrial Leaks and Spills | <b>E</b> Septic Tank and Drain Field | <b>I</b> Agricultural Runoff          |
| <b>B</b> Legacy Landfill                            | <b>F</b> Leaking Sewer               | <b>J</b> Urban Runoff                 |
| <b>C</b> Accidental Spills                          | <b>G</b> Industrial Waste Lagoon     | <b>K</b> Road Salt/De-icing Compounds |
| <b>D</b> Leaking Underground Storage Tank           | <b>H</b> Pesticides and Fertilizers  |                                       |



# Protecting the Groundwater Resource

- Susceptibility accounts for:
  - Well infrastructure
  - Hydrogeology
  - PSOC type risk, occurrence, and proximity to source
- 83 individual wells were analyzed
- Susceptibility ranged from Low to High
- Identified 6 Priority Groundwater Contamination Sites
- Susceptibility scores → protection measures





# Protection Measures and Activities

- We're on the right track!
- Coordination and collaboration with City, County, and State
- Public education and outreach key



Our path to  
**CLEAN  
WATER**







AWWA 2018 Exemplary Source Water Protection Award Winner

Questions?



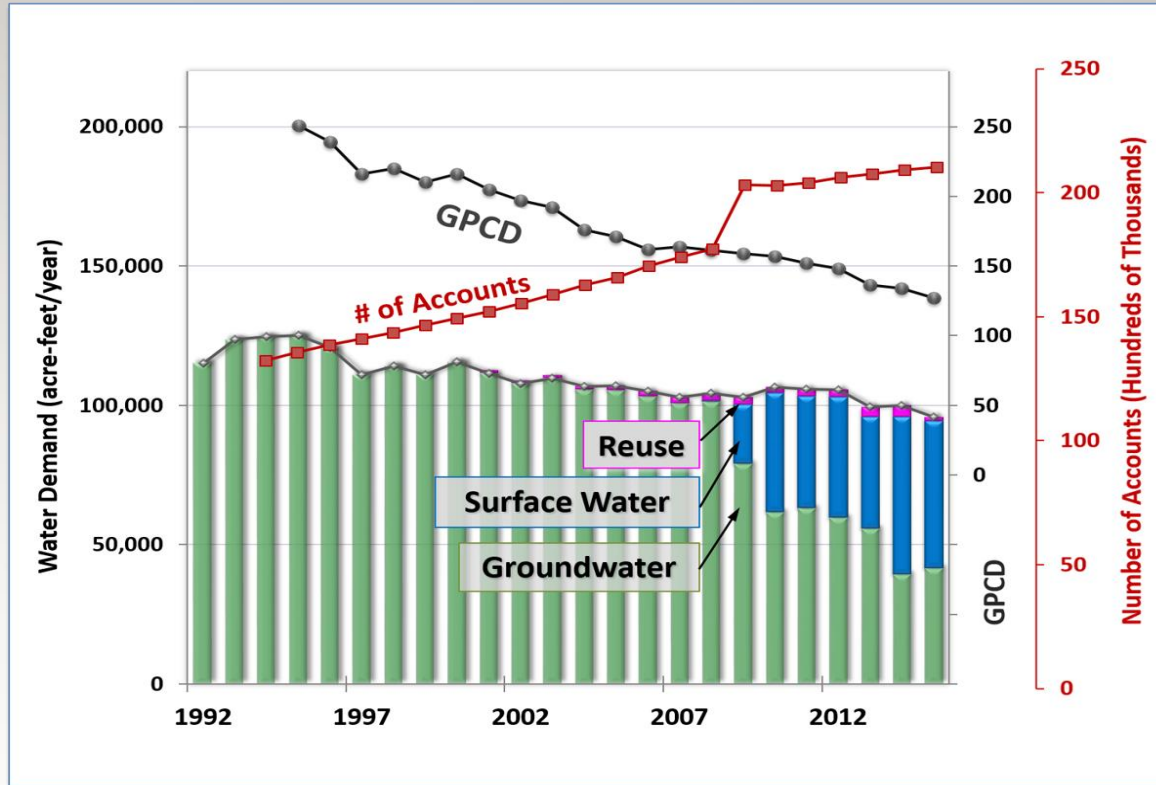


# Water 2120: Securing Our Water Future

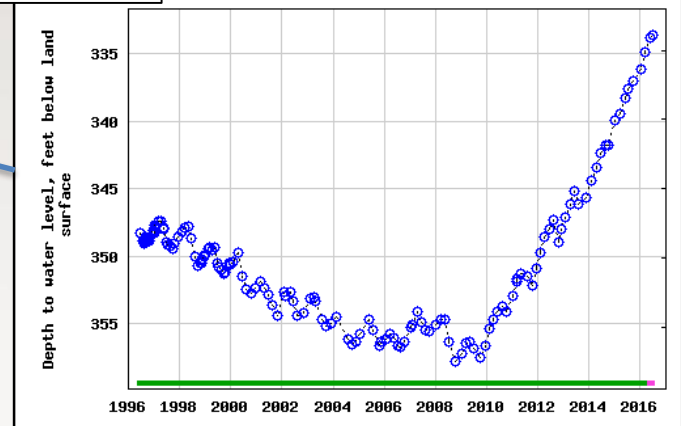
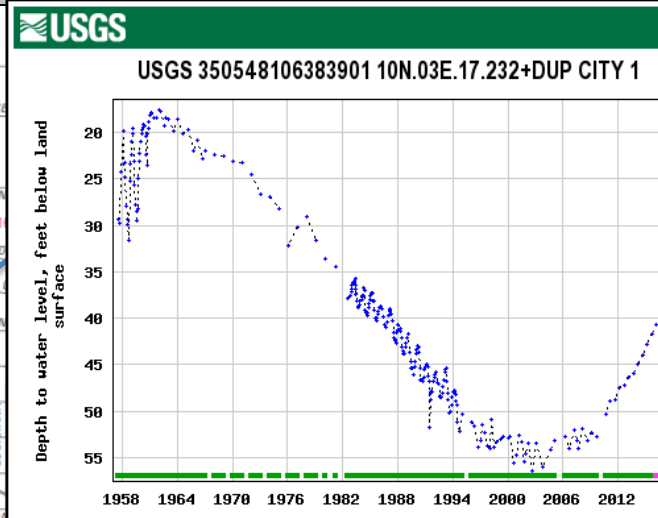
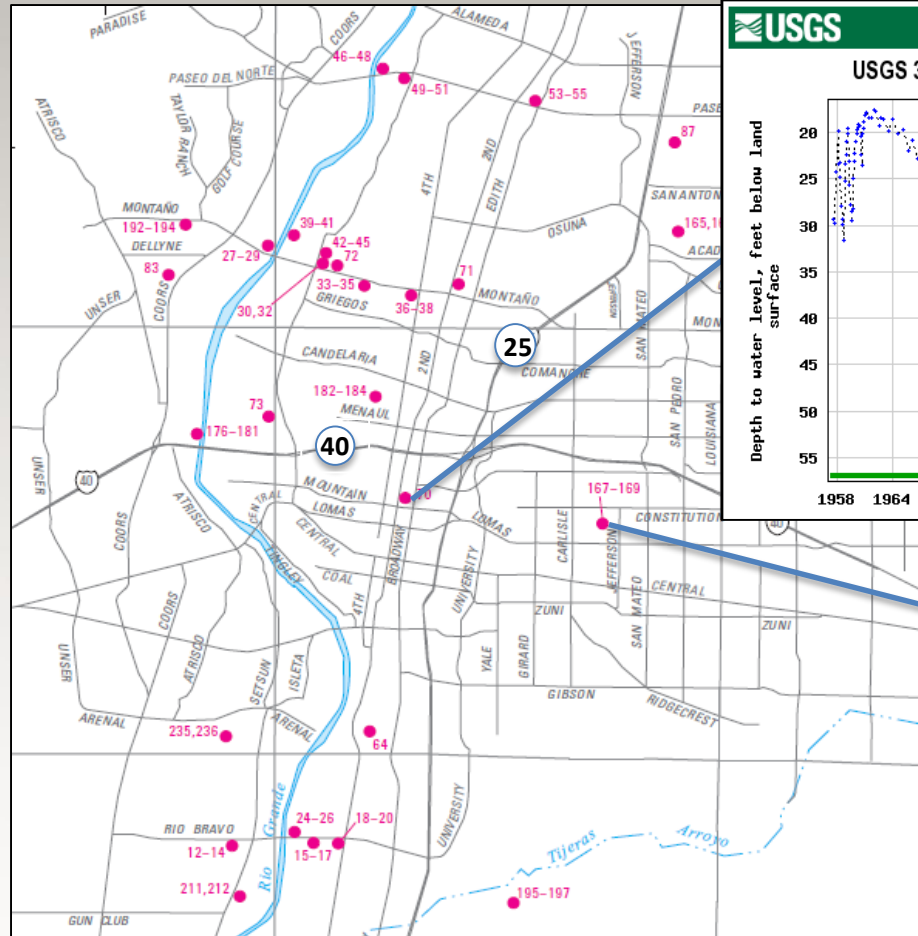
**WATER AUTHORITY BOARD MEETING  
SEPTEMBER 19, 2018**



# Water Usage has Decreased Even with Growth





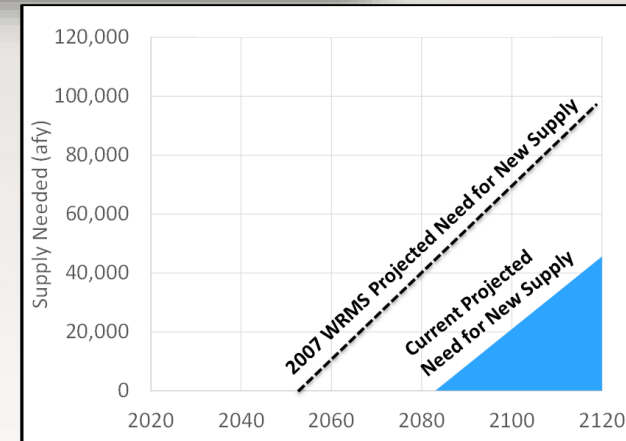
# The Aquifer Continues to Rise



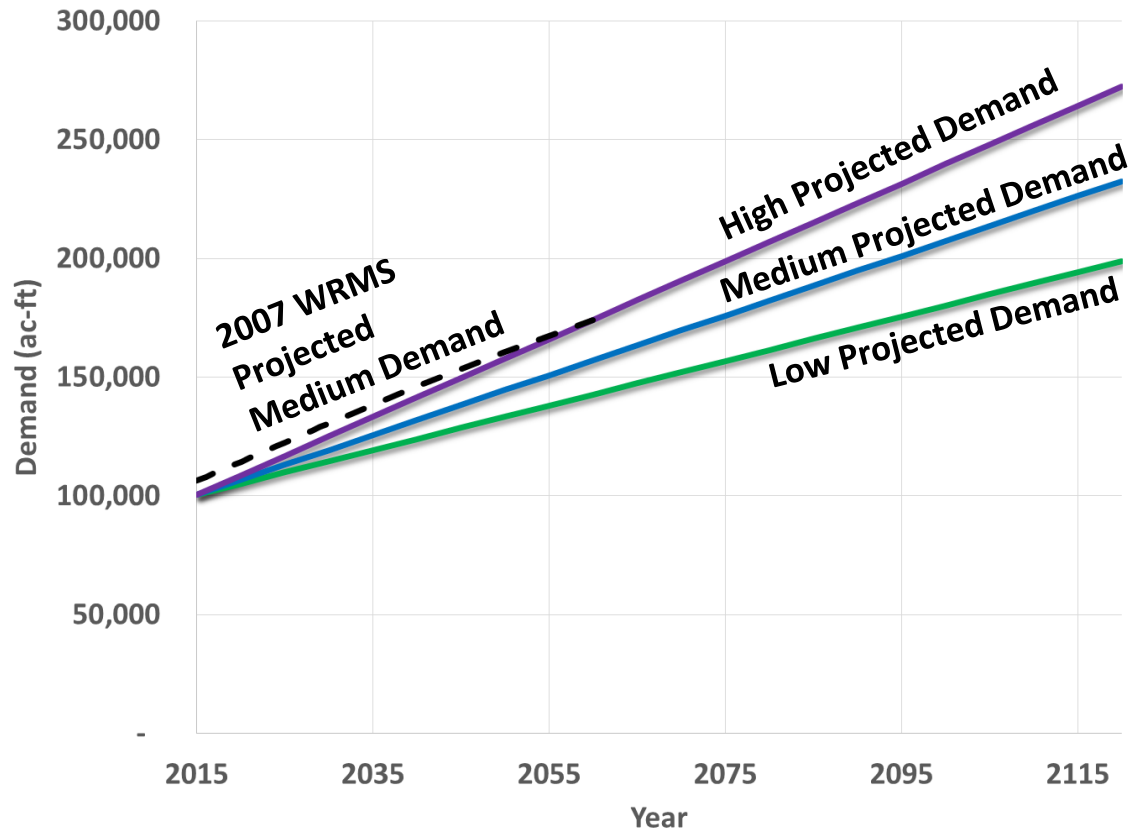
# How was the Plan Developed?

- Demand – How much water do we need?
- Supply – How much water do we have?
- Gaps – Do we need additional supply?
- Filling the Gaps – What will the new supplies be?

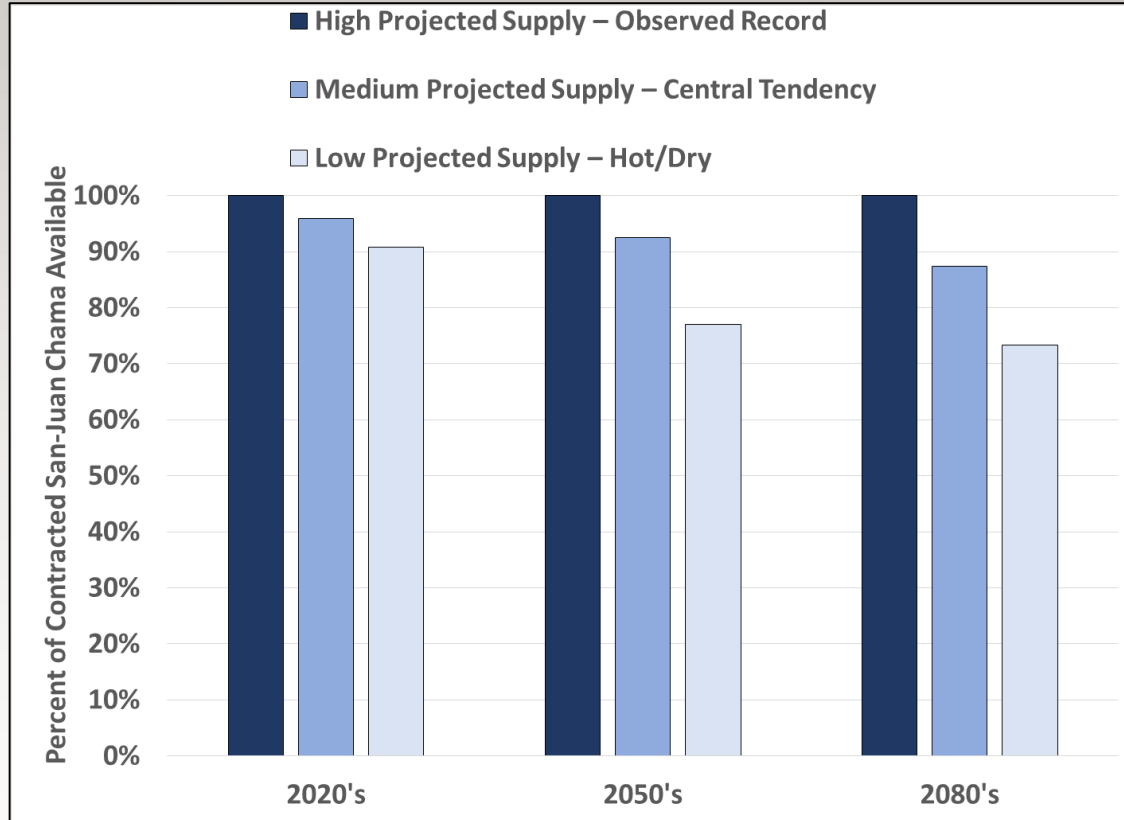
		Supply 		
Demand 	High	High	High	High
	Low	Medium	Medium	High
	Medium	Low	Medium	High
	Low	Low	Medium	High



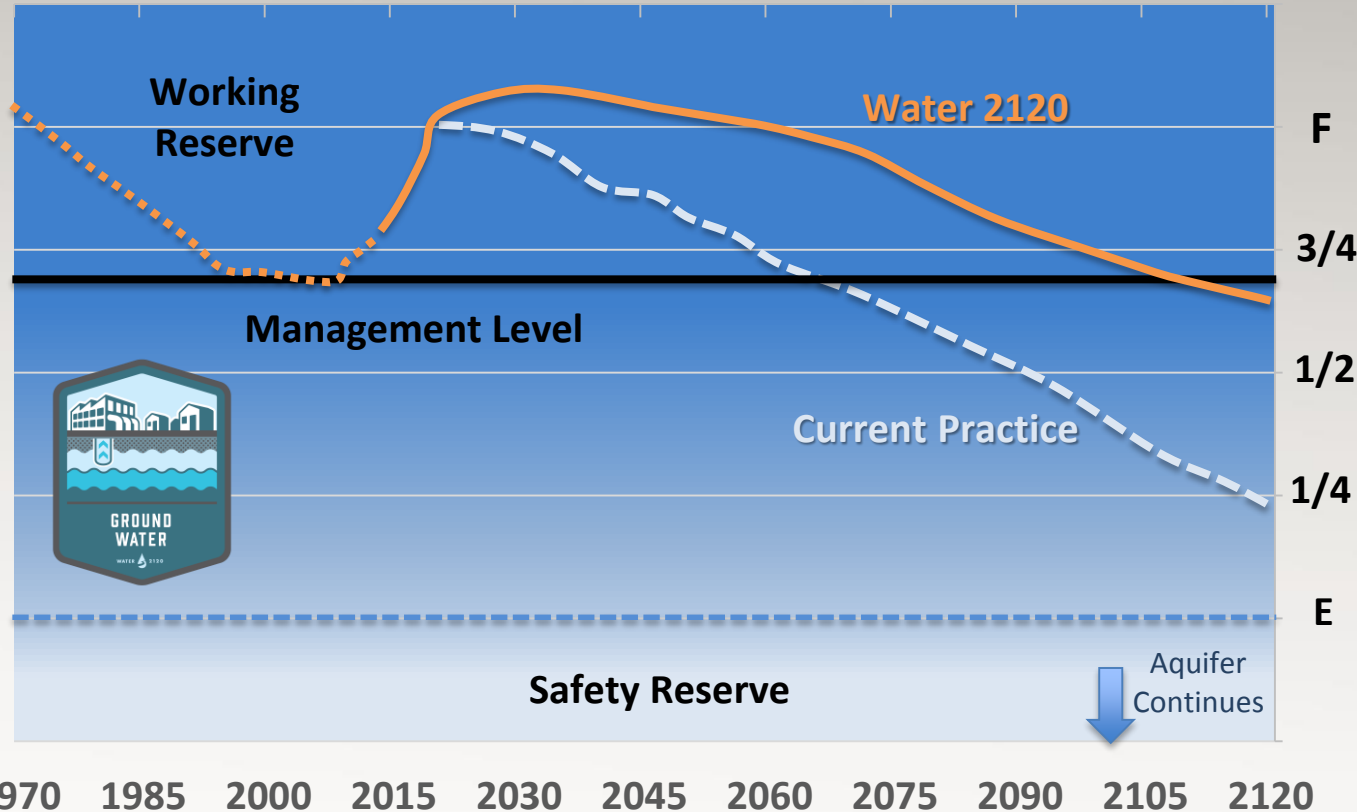
# Range of Projected Demand



# Supply Projections Include Historical and Climate Change



# Groundwater Reserve Management



**Water  
2120**

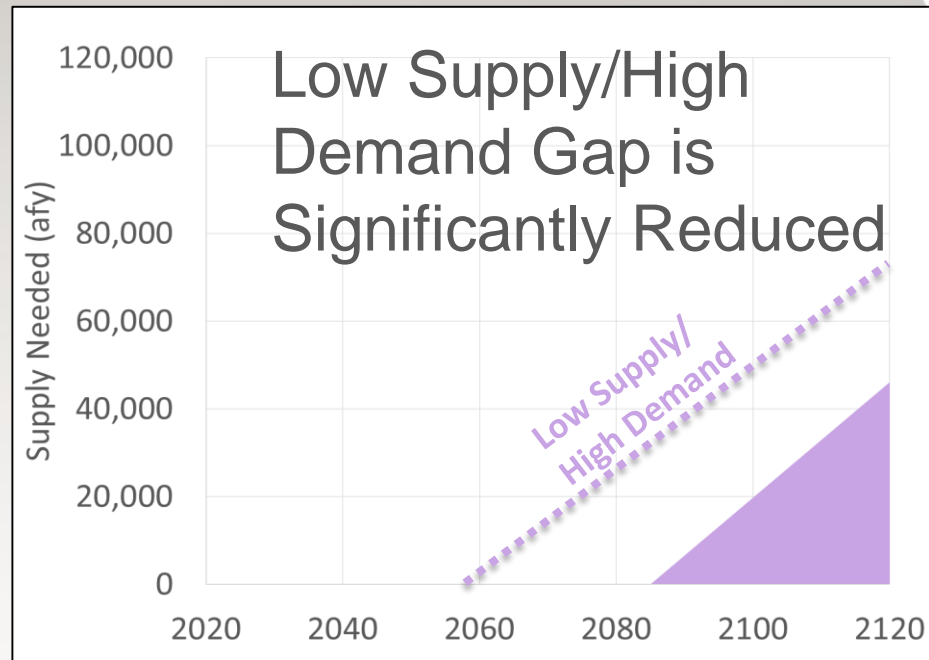
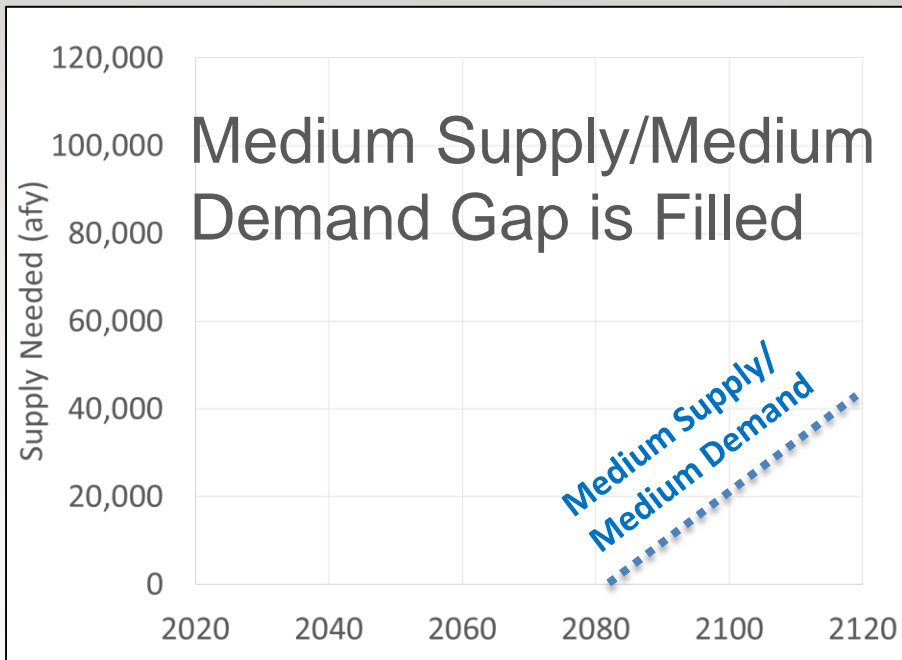
**Current  
Practice**

# Meeting the Demand

## *Portfolio 1*

- Existing supplies (groundwater and surface water)
- Conservation – 110 GPCD in 20 years
- Reuse – includes ASR and/or new storage
- Connect North I-25 Non-potable to Southside Reuse
- Storm water capture
- Indirect potable reuse (IDPR)
- Watershed management

# Supply Gap is Filled by Portfolio 1



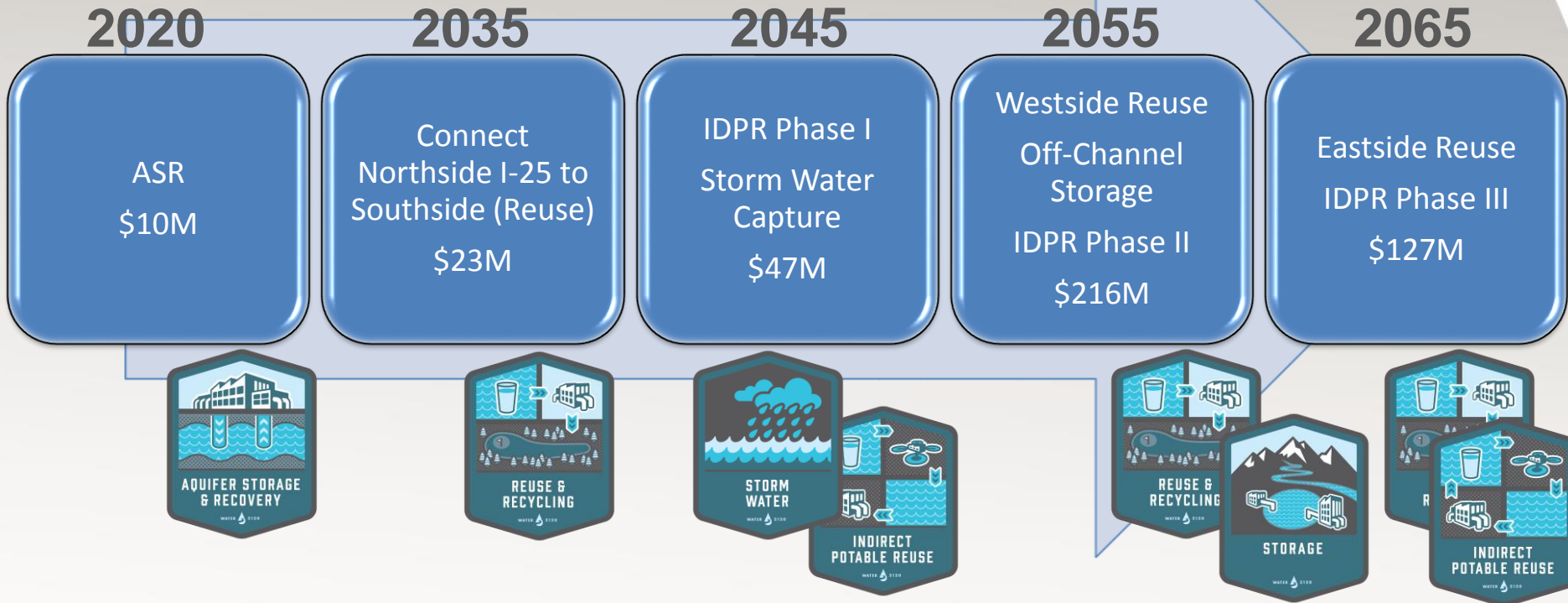


# Key Elements of the Plan

- Based on the same policies implemented in the 1997 and 2007 WRMS
- Uses existing resources
- Implements additional conservation
- No purchase of pre-1907 water rights
- Data-driven and based on the best available science
- Considers climate change
- Adaptive Management Approach provides flexibility for the future
- Extensive two-year public process
- Significant technical documentation
- Significant support from the stakeholder community
- No rate increases needed to implement the Plan
- Implementing the Plan would exceed financial rating agencies' best practices

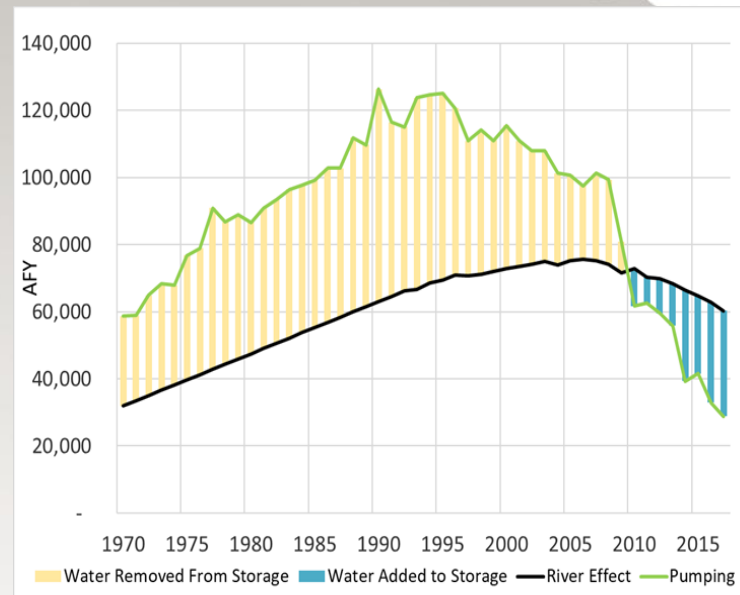


# Projected Timeline of Projects and Estimated Costs



# 2120 Implementation

- Conservation Plan – Complete
  - Board adopted Plan – focus on outdoor uses
- Groundwater Management Plan
  - Aquifer Monitoring Plan
  - Finalizing GW Management Plan
- Reuse and Recycling
  - Bosque Reuse Plant – Phase I construction
  - Tijeras Plant – land obtained from KAFB
  - Grant applications for funding – Winrock Reuse



# 2120 Water Conservation

## Water Conservation Plan Update Highlights – adopted March 21, 2018

- GPCD of 110 by 2037
- Transition from indoor rebates to outdoor rebates
- Transition from residential to commercial conservation
- Education on outdoor efficiency
- Water waste warning and education system
- Partnerships with other government agencies (City, County, APS) to enhance water efficiency

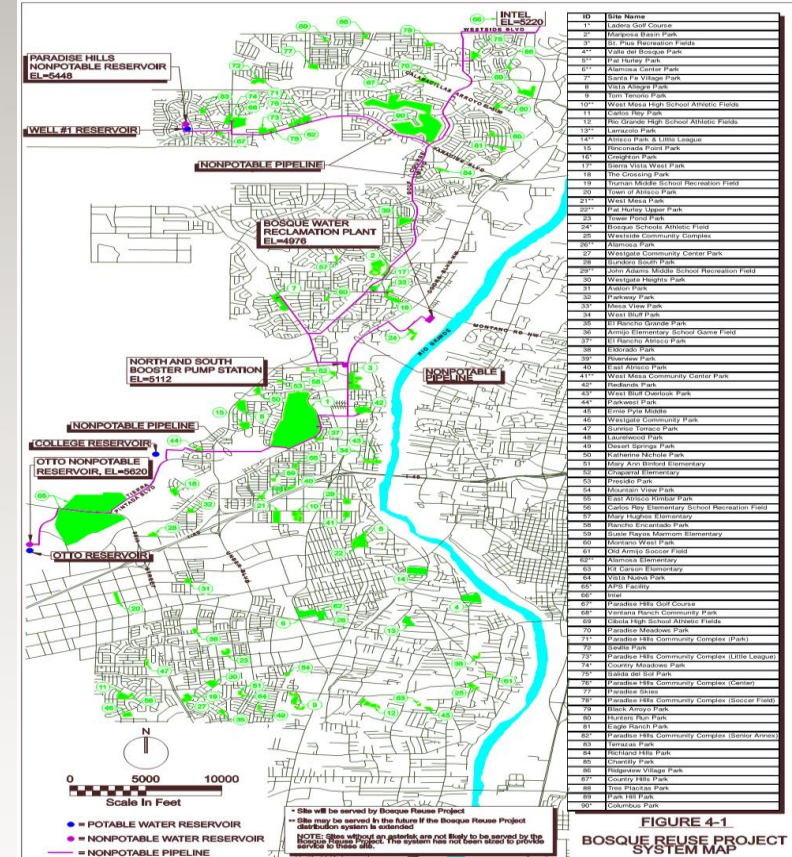


# Water 2120 Westside Reuse Project

Bosque Reuse Plant and Project  
2,000 -7,000 AFY



*Bosque Water Reuse Plant Site  
(North of Bosque School)*





# Bosque Water Reuse Plant Conceptual Layouts



*View Looking to the Northeast*



*View Looking to the Southwest*

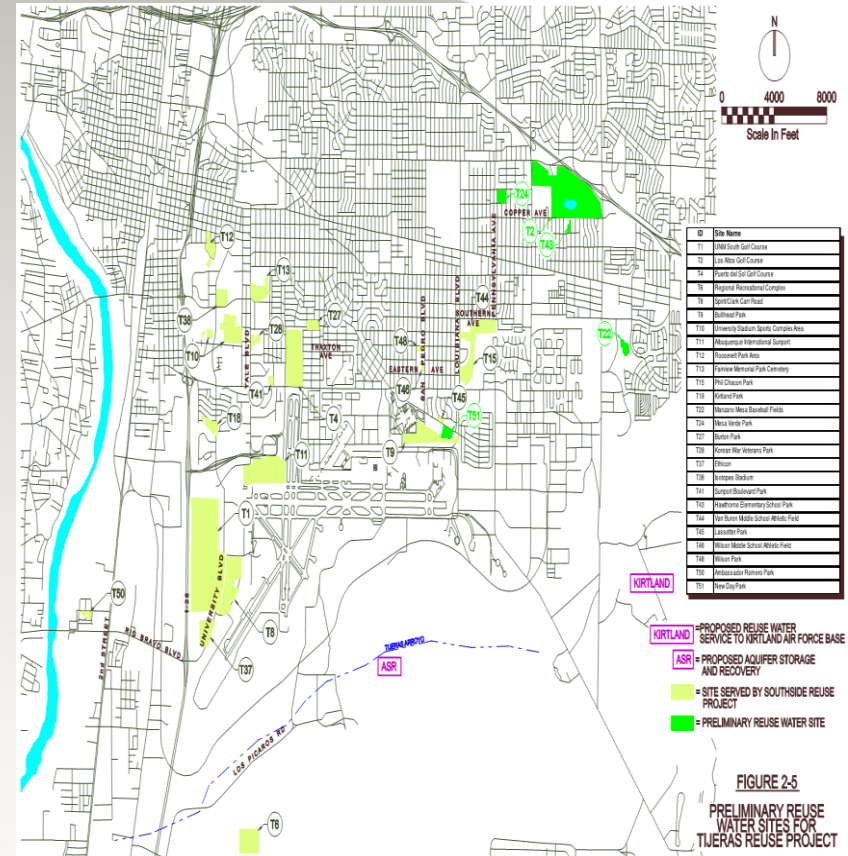
# Water 2120 Eastside Reuse Project

Albuquerque Bernalillo County  
Water Utility Authority

- Tijeras Reuse and ASR Project  
**6,000- 7,000 AFY**



### *Tijeras Reuse Plant Site (KAFB)*



# Direct/Indirect Potable Reuse

- Excess Return Flows used for Reuse and Drinking Water
- Construct new Advanced Water Treatment Facilities – SWRP or Satellite Facilities





# 2120 Implementation

- Storage Update
  - Increase Abiquiu Storage – 35,000 AF (Current Storage 170,900 AF)
  - Long-Term Elephant Butte Storage – 50,000 AF
  - Future potential Storage – ASR or Off-channel
- Finalizing Environmental Plan
  - 2018 Water Operations – 20,000 AF Lease to BOR
  - ESA Collaborative Program
- Adaptive Management
  - Periodically Update WRMS – 5 years or sooner

# Storage

## Increased storage space

- Abiquiu Reservoir  
**Increase 35,000 AF**



Source: USACE (<http://www.spa.usace.army.mil/Missions/Civil-Works/Recreation/Abiquiu-Lake/>)

- Elephant Butte Reservoir  
**50,000 AF for 40-years**



Source: Source: <http://www.sierracountynewmexico.info/wp-content/uploads/2012/05/Elephant-Butte-panoramic.png>

# Questions?