

ORANGE WATER AND SEWER AUTHORITY  
WORK SESSION OF THE BOARD OF DIRECTORS

JUNE 9, 2016

The Board of Directors of the Orange Water and Sewer Authority (OWASA) held a Work Session on Thursday, June 9, 2016 at 6:00 P.M. in OWASA's Community Room in the Administration Building, 400 Jones Ferry Road, Carrboro.

Board Members present: John A. Young (Chair), Robert Morgan (Vice Chair), Heather Payne (Secretary), Terri Buckner, Jeff Danner, Barbara M. Foushee and David (Dave) Moreau. Board Members Absent: Quinton Harper and Ruchir Vora.

OWASA staff present: Ed Kerwin, Mary Darr, Greg Feller, Stephanie Glasgow, Andrea Orbich, Stephen Winters, Todd Taylor and Robert Epting of Epting and Hackney.

Public present: Margaret Holton, Water, Sewer and Stormwater Manager at the University of North Carolina at Chapel Hill.

MOTIONS

1. BE IT RESOLVED THAT the Orange Water and Sewer Authority Board of Directors adopts the Resolution Adopting the Schedule of Rates, Fees and Charges Applicable to All Customers On and After October 1, 2016. Resolution so titled attached hereto and made a part of these minutes. Motion by Terri Buckner, second by David Moreau and unanimously approved.
2. BE IT RESOLVED THAT the Orange Water and Sewer Authority Board of Directors adopts the Resolution Adopting the Annual Budget for Orange Water and Sewer Authority for the Fiscal Year July 1, 2016 through June 30, 2017. Motion by Robert Morgan, second by David Moreau and unanimously approved.
3. BE IT RESOLVED THAT the Orange Water and Sewer Authority Board of Directors adopts the Resolution Approving the Capital Improvements Program and Budget for Fiscal Years 2017-2021. Motion by Robert Morgan, second by Terri Buckner and unanimously approved.
4. BE IT RESOLVED THAT the Orange Water and Sewer Authority Board of Directors adopts the Capital Project Resolution for Fiscal Year 2017. Motion by Robert Morgan, second by Terri Buckner and unanimously approved.
5. Robert Morgan made a motion to provide 3% pay increase for eligible employees rate Successful and above, \$500 bonus for eligible employees rated Successful and \$1,000 bonus for eligible employees rated Exceptional; second by Heather Payne; the motion failed with a vote of three to four with Jeff Danner, Heather Payne, Dave Moreau and John Young opposed.
6. BE IT RESOLVED THAT the Orange Water and Sewer Authority Board of Directors adopts the Resolution Updating the Schedule of Employee Classification and Authorized

Compensation; Adjusting Affected Employees' Compensation to the Minimum of the Pay Range; and Authorizing Cost of Labor and Merit Pay Increases for Eligible Employees (1.5% Cost of Labor increase for all eligible employees who earn a Successful or Exceptional rating on their October 2016 annual performance review; 1.5% Merit increase for all eligible employees who earn a Successful rating on their October 2016 annual performance review; and 3% Merit increase for all employees who earn an Exceptional rating on their October 2016 annual performance review). Motion by Heather Payne, second by Jeff Danner and approved with a vote of five to two with Terri Buckner and Barbara Foushee opposed.

7. Heather Payne made a motion to approve the update to the Strategic Plan with an additional measure of success to Strategic Initiative 5, Advanced Metering Infrastructure, regarding a customer satisfaction component; second by Robert Morgan and unanimously approved.

8. Robert Morgan made a motion to continue the election of Secretary of the Board of Directors to the June 23, 2016 meeting; second by Terri Buckner and unanimously approved.

### ANNOUNCEMENTS

John Young said any Board Member who knows of a conflict of interest or potential conflict of interest with respect to any item on the agenda tonight is asked to disclose the same. None were disclosed.

Dave Moreau said that the Natural Resources and Technical Services (NRTS) Committee met on June 8, 2016 to discuss a petition the Board received on April 28, 2016 regarding OWASA's disinfection methods, and the potential impact of use of chloramines for secondary disinfection on customers' private plumbing from Mr. Art Belden. Mr. Moreau reported the following NRTS Committee's recommendations:

- After extensive research into the limited options available for disinfection and the potential adverse effects of each, it was concluded that chloramines remain OWASA's best option as its secondary disinfectant due to the significant reductions in disinfectant byproducts they provide.
- OWASA acknowledges that while dezincification impacts do not appear to be caused by OWASA's water chemistry, some customers' plumbing equipment may be experiencing dezincification, and remedying the impacts of dezincification may be expensive for customers.
- Staff will inform and engage customers and other stakeholders such as plumbers, realtors, and home and plumbing inspectors about the safety of OWASA water and use of chloramines.
- While it is appreciated that the petitioner brought this issue to the Board, the NRTS Committee and staff does not believe hiring an independent party as suggested by the petitioner is necessary because current studies are available and show no connection between the use of chloramines and dezincification. Staff will continue to monitor research in this area.

Finally, Mr. Moreau said that the NRTS Committee recommends that staff present the information from the June 8, 2016 NRTS Committee meeting at the Board's August 25, 2016 meeting and ask staff to provide the petitioner and other interested stakeholders notice that the Board will discuss this issue at that meeting. The Board agreed.

ITEM ONE: APPROVAL OF THE SCHEDULE OF RATES, FEES AND CHARGES; ANNUAL BUDGET; AND FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM (CIP)

The Board approved the annual budget for July 2016 through June 2017, the 5-year capital program and rates to be effective in October 2016. For the fifth year in a row, monthly rates will not increase.

Terri Buckner made a motion to approve the Resolution Adopting the Schedule of Rates, Fees and Charges Applicable to All Customers On and After October 1, 2016; second by Robert Morgan and unanimously approved. Please see Motion 1 above.

Robert Morgan made a motion to approve the Resolution Adopting the Annual Budget for Orange Water and Sewer Authority for the Fiscal Year July 1, 2016 through June 30, 2017; second by David Moreau and unanimously approved. Please see Motion 2 above.

Robert Morgan made a motion to approve the Resolution Approving the Capital Improvements Program and Budget for Fiscal Years 2017-2021; second by Terri Buckner and unanimously approved. Please see Motion 3 above.

Robert Morgan made a motion to approve the Capital Project Resolution for Fiscal Year 2017; second by Terri Buckner and unanimously approved. Please see Motion 4 above.

ITEM TWO: REVIEW INFORMATION AND OPTIONS FOR EMPLOYEE MERIT/COST OF LABOR PAY INCREASES FOR FISCAL YEAR 2017

The Board discussed several options for employee merit/cost of labor pay increases for Fiscal Year 2017 prior to approving a 3% pay increase (1.5% merit increase, 1.5% cost of labor) effective October 31, 2016 for employees whose performance is rated as Successful, and a 4.5% increase (3% merit increase, 1.5% cost of labor adjustment) for employees whose performance is rated as Exceptional.

Robert Morgan made a motion to provide 3% pay increase for eligible employees rate Successful and above, \$500 bonus for eligible employees rated Successful and \$1,000 bonus for eligible employees rated Exceptional; second by Heather Payne; the motion failed with a vote of three to four with Jeff Danner, Heather Payne, Dave Moreau and John Young opposed. Please see Motion 5 above.

Heather Payne made a motion to approve the Resolution Updating the Schedule of Employee Classification and Authorized Compensation; Adjusting Affected Employees' Compensation to the Minimum of the Pay Range; and Authorizing Cost of Labor and Merit Pay Increases for

Eligible Employees (1.5% Cost of Labor increase for all eligible employees who earn a Successful or Exceptional rating on their October 2016 annual performance review; 1.5% Merit increase for all eligible employees who earn a Successful rating on their October 2016 annual performance review; 3% Merit increase for all employees who earn an Exceptional rating on their October 2016 annual performance review); second by Jeff Danner and the motion passed with a vote of five to two with Terri Buckner and Barbara Foushee opposed. Please see Motion 6 above.

ITEM THREE: DISCUSS STAFF PROPOSED UPDATE TO STRATEGIC PLAN

John Young suggested that Strategic Initiative 5, Advanced Metering Infrastructure include a measure of success with a customer satisfaction component.

Heather Payne made a motion to approve the update to the Strategic Plan with an additional measure of success to Strategic Initiative 5, Advanced Metering Infrastructure, regarding a customer satisfaction component; second by Robert Morgan and unanimously approved. Please see Motion 7 above.

ITEM FOUR: REVIEW BOARD WORK SCHEDULE

Provide a suggested schedule for the development of a long-term plan for sustainable management of OWASA's forest lands (Strategic Initiative 6) after consideration of the Mountains to Sea Trail in Orange County.

Provide an update on the monitoring and evaluation of Jordan Lake water quality.

Provide status and schedule information for each pending key staff action item for review at Board Work Sessions.

ITEM FIVE: REPORT OF THE NOMINATING COMMITTEE AND ELECTION OF OFFICERS

Dave Moreau said that the Nominating Committee met on May 23, 2016 and recommends the nominations of following Board Members for the election of officers. For the office of Chair of the Board, the Nominating Committee has nominated John Young; for the office of Vice Chair, the Nominating Committee has nominated Terri Buckner or Jeff Danner; for the office of Secretary, the Board has nominated Barbara Foushee or Heather Payne.

Mr. Moreau conducted the election.

Mr. Moreau asked if there were any other nominations for the office of Chair. There were none. A motion to close the nominations and elect John Young as Chair was made by Robert Morgan and passed unanimously.

Mr. Moreau asked if there were any further nominations for Vice Chair. There were none. Jeff Danner was then elected by majority ballot.

Mr. Moreau asked if there were any further nominations for the office of Secretary. There were none. Neither of the candidates received five votes on the succeeding ballot, and the Board agreed to continue the election for Secretary to the next meeting.

Robert Morgan made a motion continue the election of Secretary of the Board of Directors to the June 23, 2016 meeting; second by Terri Buckner and unanimously approved. See Motion 8 above.

The Board agreed to have a discussion on how the Board reviews and nominates officers in January 2017 prior to next election of officers.

ITEM SIX: EXECUTIVE DIRECTOR WILL SUMMARIZE THE KEY STAFF ACTION ITEMS FROM THE WORK SESSION

Ed Kerwin summarized the key action items for staff as follows:

- Provide status and schedule information for each pending key staff action items for review at Board Work Sessions.
- Provide update on monitoring and the evaluation of Jordan Lake water quality.
- Provide a suggested schedule for the development of a long-term plan for sustainable management of OWASA's forest lands (Strategic Initiative 6) after consideration of the Mountains to Sea Trail in Orange County.

ITEM SEVEN: DISCUSS THE RESULTS OF THE 2016 BOARD SELF-ASSESSMENT

The Board discussed the results of 2016 Board Self-Assessment in OWASA's Board Room. No action was taken.

The meeting was adjourned at 9:12 P.M.

Respectfully submitted by:



Andrea Orbich  
Executive Assistant/Clerk to the Board

Attachments

**RESOLUTION ADOPTING THE SCHEDULE OF RATES, FEES, AND CHARGES  
APPLICABLE TO ALL CUSTOMERS ON AND AFTER OCTOBER 1, 2016**

**WHEREAS**, Orange Water and Sewer Authority has an adopted *Schedule of Rates, Fees, and Charges* as permitted under North Carolina General Statute 162A-9 and Section 7.04 of OWASA's Amended and Restated Bond Order (Bond Order); and

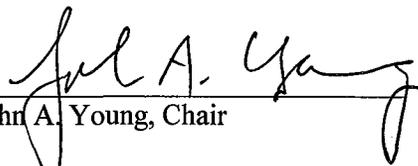
**WHEREAS**, General Statute 162A-6(9) and Section 7.04 of OWASA's Bond Order empower and direct the Authority to fix and revise from time to time and to collect rates, fees and other charges for the use of or for the services and facilities furnished by any system operated by the Authority; and

**WHEREAS**, during the preparation of the Fiscal Year (FY) 2017 budget, and after hearing citizen comments in the May 26, 2016 public hearings it held concerning the FY 2017 budget, the Board of Directors determined that it is not necessary to increase the rates OWASA's charges for monthly water, sewer, and reclaimed services in order to provide sufficient revenues to fund ongoing operations, debt service and the Capital Improvements Program. Certain other fees have been adjusted based on changes in the costs of providing the services.

**NOW, THEREFORE, BE IT RESOLVED:**

1. That the attached *Schedule of Rates, Fees, and Charges* is hereby adopted by the Board of Directors of Orange Water and Sewer Authority.
2. That the rates shown on the attached schedule shall become effective for all service billings rendered on and after October 1, 2016.
3. That the Executive Director is authorized in his discretion to make findings and determinations as necessary in the application of the *Schedule of Rates Fees and Charges*, and otherwise as necessary to resolve customer inquiries or appeals arising thereunder, subject to the customer's right of appeal to the Board of Directors.
4. That the Executive Director is hereby directed to give proper notice as required by the Sale and Purchase Agreements and to take the necessary steps to implement the *Schedule of Rates, Fees, and Charges*.

Adopted this 9th day of June 2016.

  
\_\_\_\_\_  
John A. Young, Chair

ATTEST:

  
\_\_\_\_\_  
Heather Payne, Secretary

**ORANGE WATER AND SEWER AUTHORITY  
PROPOSED SCHEDULE OF RATES, FEES, AND CHARGES**

APPLICABLE TO ALL BILLINGS AND SERVICES ON AND AFTER OCTOBER 1, 2016

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Background and Authorization

In providing essential public water, sewer and reclaimed water services to Chapel Hill, Carrboro and portions of southern Orange County, Orange Water and Sewer Authority (OWASA) incurs substantial operating and capital expenses. As a community-owned non-profit public utility, OWASA has no authority to levy taxes, nor does it receive tax revenues from local governments for ongoing operations. OWASA finances its water, sewer and reclaimed water operations and extensive capital improvements almost entirely through customer paid fees and charges.

North Carolina G.S. 162A-9 requires that OWASA's "rates, fees and charges shall be fixed and revised so that the revenues of the Authority, together with any other available funds, will be sufficient at all times" to fund operating and maintenance expenses and to pay the principal and interest on all debt issued or assumed by OWASA. OWASA's rates are established under cost-of-service rate-making methodology. OWASA's customers pay for the cost of providing the services and/or facility capacity required to meet customer demand.

The OWASA Board of Directors has determined that the provisions in this Schedule of Rates, Fees, and Charges are necessary to adequately sustain OWASA's near-term and long-range utility operations. Revenues generated by these rate adjustments will provide OWASA with the financial resources necessary to: (1) fund operating costs; (2) adequately maintain existing water, sewer, and reclaimed water facilities; (3) fully comply with increasingly stringent environmental and public health standards; (4) meet debt service requirements; (5) create additional facility capacity to stay abreast of water, reclaimed water and sewer service demand in a growing, dynamic community; and (6) maintain adequate reserves.

The attached Schedule of Rates, Fees, and Charges will replace the schedule adopted on June 11, 2015, which became effective on October 1, 2015.

**ORANGE WATER AND SEWER AUTHORITY  
PROPOSED SCHEDULE OF RATES, FEES, AND CHARGES**

**SECTION I: WATER RATES AND FEES**

**MONTHLY WATER RATES**

Water charges are billed monthly at approximately 30-day intervals. Charges are due upon receipt of the bill, and become delinquent 21 days after the billing date. Monthly water rates consist of two components; a monthly service charge and a commodity (volume) charge.

**Water Service Charge**

This charge recovers costs related to certain direct and indirect customer service efforts, meter and lateral maintenance, and capital costs associated with supplying water to the customer's property. Applicable to all metered water accounts, independent of the quantity of water consumed, the monthly charge is based on meter size as follows:

<b>Meter Size</b>	<b>Monthly Service Charge</b>
5/8"	\$14.70
3/4" Combination Fire and Domestic Service Meter	\$15.20
1"	\$29.53
1" Combination Fire and Domestic Service Meter	\$30.03
1-1/2"	\$63.86
2"	\$96.38
3"	\$198.22
4"	\$323.58
6"	\$704.66
8"	\$1,002.06

**Water Irrigation Service Charge**

This charge is calculated to recover certain direct and indirect customer service, meter and lateral maintenance, and capital costs associated with supplying water for irrigation through irrigation-only meters. Applicable to all metered irrigation water accounts, regardless of the quantity of water consumed, the monthly charge is based on meter size as follows:

<b>Meter Size</b>	<b>Monthly Service Charge</b>
5/8"	\$23.54
1"	\$47.05
1-1/2"	\$87.10
2"	\$133.96
3"	\$265.15
4"	\$407.02
6"	\$800.67
8"	\$1,273.30

Monthly service charges for compound meter arrangements are based on the largest meter in the grouping. In addition to the applicable charge for the primary meter, existing OWASA-owned sub-meters

**ORANGE WATER AND SEWER AUTHORITY  
PROPOSED SCHEDULE OF RATES, FEES, AND CHARGES**

are billed according to the above schedule. OWASA-owned sub-meters are no longer available and no additional sub-meters will be installed. Meter readings and service charges for first and final bills are prorated based on days of service.

(NOTE: In accordance with State law, all new in-ground irrigation systems installed on lots platted and recorded in the office of the register of deeds in the county or counties in which the real property is located after July 1, 2009 and supplied by a public drinking water system are required to have a separate meter to measure the volume of water used through the irrigation system.)

Water Commodity Charge

This charge recovers the direct and indirect costs of water supply and treatment, water distribution, general administration and capital costs not recovered by the monthly service charge. This charge is applicable to all water accounts based on meter readings of water consumed. When a billing period includes a change in commodity rates, the charges are prorated based on the ratio of days in the billing period at the old and new rates. Metered monthly consumption will be billed in thousand gallon increments rounded down to the nearest thousand gallons. Unbilled consumption due to rounding will be carried forward and billed in the month when the next thousand gallon increment is registered by the meter.

When no meter reading is available due to an inoperative, damaged or inaccessible meter, consumption will be estimated based on prior usage at the location.

Individually Metered Residential Accounts Except Irrigation-only Accounts

Individually metered residential accounts will be billed under an increasing block rate structure designed to encourage efficient water use by applying increasing commodity charges (rate per thousand gallons) to incremental increases in water use.

	<b>Volume of Use (Gallons)</b>	<b>Commodity Rate per 1,000 Gallons</b>
Block 1	1,000 to 2,000	\$2.63
Block 2	3,000 to 5,000	\$6.39
Block 3	6,000 to 10,000	\$7.83
Block 4	11,000 to 15,000	\$10.94
Block 5	All use 16,000 and up	\$19.79

Multi-family, Master-metered and Non-residential Accounts Except Irrigation-only Accounts

To achieve demand reduction during peak water use periods, a seasonal conservation rate structure will be applied to all non-residential accounts other than irrigation-only accounts. A reduced water commodity charge is in effect during lower demand months (October through April), and a higher commodity charge is in effect during high demand months (May through September).

Off-peak seasonal rate per 1,000 gallons (October through April)	\$4.16
Peak seasonal rate per 1,000 gallons (May through September)	\$7.91
Equivalent Uniform Water Commodity Charge	\$6.02

**ORANGE WATER AND SEWER AUTHORITY  
PROPOSED SCHEDULE OF RATES, FEES, AND CHARGES**

Irrigation-only Accounts

To promote conservation of water used for irrigation and to achieve greater equity between rates for irrigation-only use and irrigation use through a domestic meter, irrigation-only accounts shall be charged the following year-round commodity rate.

\$8.51 per thousand gallons

WATER COMMODITY SURCHARGES APPLICABLE UNDER WATER SHORTAGE  
DECLARATION STAGES

Conservation Water Commodity Charges Under Mandatory Water Use Restrictions

Water commodity charges will be temporarily increased during periods of declared Water Shortages and mandatory water use restrictions regardless of the time of year. These applicable surcharges are summarized in the following table.

Individually-Metered Residential Accounts						Non-Residential and Irrigation-Only
Block:	Res. Block 1	Res. Block 2	Res. Block 3	Res. Block 4	Res. Block 5	
Use Level: (gallons)	1,000 to 2,000	3,000 to 5,000	6,000 to 10,000	11,000 to 15,000	16,000 and up	
Stage 1	No surcharge	No surcharge	1.25 times normal Block 3 rate	1.5 times normal Block 4 rate	2 times normal Block 5 rate	1.15 times seasonal and irrigation-only rate.
Stage 2	No surcharge	1.25 times normal Block 2 rate	1.5 times normal Block 3 rate	2 times normal Block 4 rate	3 times normal Block 5 rate	1.25 times seasonal and irrigation-only rate.
Stage 3 and Emergency	No surcharge	1.5 times normal Block 2 rate	2 times normal Block 3 rate	3 times normal Block 4 rate	4 times normal Block 5 rate	1.5 times seasonal and irrigation-only rate.

INTERLOCAL WATER TRANSFER CHARGES

The purpose of this charge is to recover costs associated with the provision of supplemental water supply under contractual agreement with other water purveyors. The specific rates to be charged will be negotiated with the other party based upon specific conditions using the cost-of-service rate-making approach and approved by OWASA.

**ORANGE WATER AND SEWER AUTHORITY  
PROPOSED SCHEDULE OF RATES, FEES, AND CHARGES**

**TEMPORARY HYDRANT METER CHARGE**

Subject to availability, a Customer may obtain a temporary hydrant meter from OWASA for a period of up to 60 days. A customer may submit a written request to use the hydrant meter for one additional 60 day period but granting said request will be subject to availability and is at OWASA’s sole discretion. Service from a fire hydrant is subject to interruption when the hydrant is needed for fire protection, compliance with water conservation standards, and other applicable law. For situations where temporary water service is needed for a period longer than 120 days, the user can purchase a metering device of a size, make and model specified by OWASA. A \$300.00 service charge, payable in advance, shall be collected for setting and removing the meter. In addition, a security deposit shall be required in accordance with the following schedule:

Security Deposit  
\$1,000

Monthly billings for temporary hydrant meters consist of two charges: (1) a service charge for that size meter, and (2) the seasonal commodity charge, including surcharges where applicable, based on monthly readings of the meter. When the hydrant meter is returned, the security deposit shall be applied to the final bill plus any damages. The Customer is responsible for paying OWASA for damages that exceed the amount of the Security Deposit. Any credit balance will be refunded within thirty (30) days.

**WATER AVAILABILITY FEE**

Water availability fees are calculated to recover a portion of the capital costs of providing water system facility capacity. The availability fee is applicable to each new connection to a water main, regardless of who may have paid for the installation of the water main to which the connection is to be made. For the purpose of availability fees, customer accounts are divided into three categories: (1) Single-family Residential, (2) Multi-family Residential, Individually- metered; and (3) Non-residential. The Non-residential category includes master-metered multi-family customers and all commercial, University, and other institutional accounts. The use of these categories is justified by distinctive patterns of water and sewer consumption.

<b>Property Description</b>	<b>Fee</b>
5/8” Meter or 3/4" Combination Fire and Domestic Service, Single-family Residential:	
<1300 square feet	\$1,265
1300-1700 square feet	\$1,545
1701-2400 square feet	\$1,956
2401-3100 square feet	\$3,344
3101-3800 square feet	\$4,546
>3800 square feet	\$7,631
1” Meter, Single-Family Residential (all square footages)	\$9,260
5/8” Meter or 3/4" Combination Fire and Domestic Service Meter, Multi-family Residential	\$1,363
1” Meter, Multi-Family Residential (all square footages)	\$9,260

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Property Description	Fee
5/8" Meter or 3/4" Combination Fire and Domestic Service Meter, Non-residential*	\$3,704
1" Meter, Non-residential*	\$9,260
1-1/2" Meter, Non-residential*	\$18,519
2" Meter, Non-residential*	\$29,631
3" Meter, Non-residential*	\$59,262
4" Meter, Non-residential*	\$92,596
6" Meter, Non-residential*	\$185,192
8" Meter, Non-residential*	\$296,308

\* Same fee for Irrigation-Only accounts.

A person or party completing a development or re-development project may be eligible to request and receive a credit on the Water Availability Fees due if their project directly results in the permanent abandonment of previously existing water meters which were connected to residences, buildings or facilities connected to and having a documented demand on the OWASA water system.

If OWASA determines that a credit is due, the amount of the credit shall be based on the current Water Availability Fees that would apply to the size of the water meters that are permanently abandoned as a direct result of the project. However, the credit due shall not exceed the amount of the Water Availability Fees that would otherwise apply to the development or re-development project. Availability Fee credits are not transferrable to any other project or property.

If an existing water meter is removed from service and/or is replaced with a smaller meter, OWASA will not issue any credit or refund to the customer for any previously paid Availability Fees.

**WATER SERVICE AND METER INSTALLATION CHARGE**

This charge is to recover costs of extending service from the OWASA distribution system to individual properties, and includes the installation of a service connection from the water main to the meter and the setting of the meter to serve the customer's premises, subject to satisfactory easement or license being provided by the applicant. Where a suitable OWASA stub-out for service has been made and is available, the "meter-only" charge shall apply. Customer requested meter/water service relocations shall be performed on a time and materials basis. Complete new and/or additional water service installation and meter-only charges are as follows:

Service Description	Fee	
	Existing	Proposed
Complete Water Service Installation, 5/8" meter	\$3,570	<b>No change</b>
Complete Water Service Installation, 3/4" Combination Fire and Domestic Service Meter	\$3,695	<b>\$3,650</b>
Complete Water Service Installation, 1" meter	\$3,805	<b>\$3,790</b>
Meter Only Installation, 5/8" meter	\$280	<b>\$260</b>
Meter Only Installation, 3/4" Combination Fire and Domestic Service Meter	\$400	<b>\$360</b>
Meter Only Installation, 1" Combination Fire and Domestic Service Meter	\$420	<b>\$360</b>

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Service Description	Fee	
	Existing	Proposed
Meter Only Installation, 1" meter	\$355	<b>\$360</b>
Meter Only Installation, 1-1/2" meter	\$600	<b>No change</b>
Meter Only Installation, 1-1/2" Combination Fire And Domestic Service Meter	\$620	<b>\$610</b>
Meter Only Installation, 2" meter	\$790	<b>No change</b>
Meter Only Installation, 2" Combination Fire And Domestic Service Meter	\$715	<b>\$720</b>
Remote Read Box with 5/8" Detector Meter	\$485	<b>\$470</b>

Complete installation costs are determined on a time and materials basis for 1-1/2 inch and 2-inch meters. For 3-inch and larger meters, the applicant shall be responsible for providing a meter box or vault constructed to OWASA standards. All meters, regardless of size, shall be purchased from OWASA at cost plus 10%. A \$140.00 delivery fee for 3-inch and larger meters shall also apply.

A remote read box and 5/8" detector meter shall be required on all private fire protection service connections. The remote read box shall be purchased from OWASA and installed by the applicant. OWASA shall install the 5/8" detector meter at the applicant's expense.

**WATER MAIN TAPPING FEE**

This charge is for making a tap into an OWASA water main. The tap fee shall be paid in advance of OWASA performing the work, with a minimum of 48 hours advance notice given to OWASA.

The applicant shall be responsible for opening the ditch, providing adequate working clearance at the point of tap, adequately shoring the trench sidewalls, dewatering and such other associated activities as may be needed to provide a suitable and safe condition for OWASA personnel to complete the tap. Additionally, the applicant shall be responsible for providing an appropriate size tapping sleeve and tapping valve, and a backhoe or similar device shall be available on-site for lowering the tapping unit into the ditch line. All permits, bonds and paving shall be the responsibility of the applicant. The charge shall be for time and equipment plus an allowance for overhead, but not less than \$340.

The base fee noted above includes one (1) site visit by OWASA to determine if the applicant is ready for OWASA to perform the tap. A re-inspection fee of \$125.00 will be charged for each additional site visit required to determine if the water main is accessible and all required material and safety measures are in place. The tap will not be performed until any applicable reinspection fees are paid in full.

**HYDRAULIC FIRE FLOW TESTING**

This charge is calculated to recover the cost of hydrant 'fire flow' testing of the water distribution system. Test results provide data to developers and engineers to determine available flows and pressures in the systems they are designing for new developments.

\$290 per test

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PROPOSED SCHEDULE OF RATES, FEES, AND CHARGES**

SECTION II: SEWER RATES AND FEES

MONTHLY SEWER RATES

Sewer charges are billed monthly at approximately 30-day intervals. Charges are due upon receipt of the bill, and become delinquent 21 days after the billing date. Monthly sewer rates consist of two components: a monthly service charge and a sewer commodity (volume) charge.

Sewer Service Charge

This charge is calculated to recover the direct and indirect customer service, service and inspection maintenance, and capital costs associated with providing sewer service to the customer's property. Meter readings and service charges for first and final bills are prorated based on days of service. Applicable to all sewer accounts, regardless of whether or not there is a commodity charge, the monthly service charge is based on the size of the meter where sewer usage is measured as follows:

<b>Meter Size</b>	<b>Monthly Service Charge</b>
5/8" or 3/4" Combination Fire and Domestic Service	\$12.00
1"	\$20.61
1-1/2"	\$35.53
2"	\$53.72
3"	\$101.58
4"	\$155.28
6"	\$284.70
8"	\$485.82

The monthly sewer service charge shall apply to any meter(s) used to directly or indirectly measure the volume of wastewater discharged from a customer's premises, regardless of whether the water source to the customer is from OWASA's drinking water and/or reclaimed water system, or a non-OWASA water source including but not limited to harvested rainwater or groundwater.

Sewer Commodity Charge

This charge is calculated to recover the remaining direct and indirect costs of wastewater treatment and collection, maintenance, inspection, customer service and administration and sewer capital costs not recovered by the monthly service charge. When a billing period includes a change in commodity rates, the charges are prorated based on the ratio of days in the billing period at the old and new rates. Metered monthly consumption will be billed in thousand gallon increments rounded down to the nearest thousand gallons. Unbilled consumption due to rounding will be carried forward and billed in the month when the next thousand gallon increment is registered by the meter. This charge is applicable to all accounts receiving sewer service based on the water meter reading, sewer meter reading if applicable, or estimated volume of discharge as determined by OWASA.

The sewer commodity charge is applicable to all customers discharging wastewater into the OWASA sewer system, regardless of whether or not that discharge results from the customer's use of OWASA's drinking water or reclaimed water, or their use of a non-OWASA water source, including but not limited to harvested rainwater or groundwater.

**ORANGE WATER AND SEWER AUTHORITY  
PROPOSED SCHEDULE OF RATES, FEES, AND CHARGES**

\$6.48 per thousand gallons

Individually-metered residential customers will not be charged for monthly sewer use in excess of 15,000 gallons.

**INTERLOCAL WASTEWATER COLLECTION, TREATMENT AND DISPOSAL CHARGES**

The purpose of this charge is to recover costs associated with the provision of wastewater collection, treatment and disposal services under contractual agreements with other wastewater service providers. The specific rates to be charged will be negotiated with the other party based upon specific conditions using the cost-of-service rate-making approach and approved by OWASA.

**MONTHLY RATES FOR SEWER-ONLY ACCOUNTS**

For sewer-only accounts where there is no OWASA meter for directly or indirectly measuring the volume of wastewater discharged by the customer, the monthly sewer service and commodity charges shall be fixed and be the total of:

- (1) a monthly service charge which shall be determined by the water meter size which would be required to supply water service to the property,

plus

- (2) a sewer commodity charge of \$6.48 per 1,000 gallons times the estimated volume of wastewater expected to be discharged by the customer (using national engineering standards as the basis); provided however, that in no case shall the billable quantity be less than 6,000 gallons per month.

For special commercial and industrial customer classifications where the proportion of water consumed to wastewater discharged is extremely large, a metered sewer account may be approved. Metered sewer accounts must also pay the appropriate monthly sewer service charge based on the sewer meter size.

If a customer that has a standard metered water and sewer service (sewer gallons billed are based on the water gallons billed) also discharges wastewater resulting from the use of OWASA reclaimed water, harvested rainwater, groundwater, or sources other than OWASA drinking water, that customer shall be billed a monthly service charge and commodity charges calculated in accordance the *OWASA Rainwater Harvesting Systems Requirements and Charges Policy* for said additional discharge; provided, however, that the minimum threshold for which the charges shall apply is 3,000 gallons per month. For this purpose, such systems serving single-family residential customers are deemed to fall below this threshold, provided there is also a standard metered water and sewer service.

**SEWER AVAILABILITY FEE**

The purpose of this fee is to recover a portion of the capital costs of providing sewer system facility capacity. The availability fee is applicable to each new connection to a sewer main, regardless of who may have paid for the installation of the main to which the connection is to be made. For the purpose of the availability fee, customer accounts are divided into three categories: (1) Single-family Residential; (2) Multi-family Residential, Individually-metered; and (3) Non-residential. The Non-residential category includes master-metered Multi-family customers plus all other commercial, University, and other

**ORANGE WATER AND SEWER AUTHORITY  
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institutional accounts. The use of these categories is justified by distinctive patterns of water and sewer consumption.

<b>Property Description</b>	<b>Fee</b>
5/8" Meter or 3/4" Combination Fire and Domestic Service, Single-family Residential:	
<1300 square feet	\$2,938
1301-1700 square feet	\$3,549
1701-2400 square feet	\$3,611
2401-3100 square feet	\$4,425
3101-3800 square feet	\$4,781
>3800 square feet	\$5,431
1" Meter, Single-Family Residential (all square footages)	\$12,301
5/8" Meter or 3/4" Combination Fire and Domestic Service, Multi-family Residential	\$3,183
1" Meter, Multi-Family Residential (all square footages)	\$12,301
5/8" Meter or 3/4" Combination Fire and Domestic Service, Nonresidential	\$6,317
1" Meter, Nonresidential	\$15,792
1-1/2" Meter, Nonresidential	\$31,584
2" Meter, Nonresidential	\$50,535
3" Meter, Nonresidential	\$101,070
4" Meter, Nonresidential	\$157,922
6" Meter, Nonresidential	\$315,844
8" Meter, Nonresidential	\$505,350

In addition to the sewer availability fee, an excess sewer capacity fee of four percent (4%) of the applicable sewer availability fee shall be charged to recover the costs of excess sewer capacity installed in an area covered by an agreement between OWASA and a developer for credit payments to the constructing developer. This fee shall apply to residential and non-residential customers.

A person or party completing a development or re-development project may be eligible to request and receive a credit on the Sewer Availability Fees due if their project directly results in the permanent abandonment of previously existing water meters and sewer services which were connected to residences, buildings or facilities connected to and having a documented demand on the OWASA sanitary sewer system.

If OWASA determines that a credit is due, the amount of the credit shall be based on the current Sewer Availability Fees that would apply to the size water meters that are permanently abandoned as a direct result of the project. However, the credit due shall not exceed the amount of the Sewer Availability Fees that would otherwise apply to the development or re-development project. Availability Fee credits are not transferrable to any other project or property.

If an existing water or sewer meter upon which consumption is based is removed from service and/or is replaced with a smaller meter, OWASA will not issue any credit or refund to the customer for

**ORANGE WATER AND SEWER AUTHORITY  
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any previously paid Availability Fees.

**SEWER TAP CHARGE**

This charge is for making a tap of the applicant's private sewer lateral into the main sewer line or sewer manhole of OWASA. The tap fee must be paid in advance of OWASA performing the work, with a minimum of 48 hours advance notice given to OWASA.

The applicant shall be responsible for opening the ditch, providing adequate working clearance at the point of tap, adequately shoring the trench sidewalls, dewatering and such other associated activities as may be needed to provide a suitable and safe condition for OWASA to connect the service lateral of the applicant into the facilities of OWASA. The minimum charge is based on a standard 4" service tap to the OWASA sewer line. All lines 6" in diameter and larger must be tapped into a manhole. All permits, bonds and pavement repairs are the responsibility of the applicant.

The charge shall be for time and equipment plus an allowance for overhead, but not less than \$340.

The base fee noted above includes one (1) site visit by OWASA to determine if the applicant is ready for OWASA to perform the tap. A re-inspection fee of \$125 will be charged for each additional site visit required to determine if the sewer main is accessible and all required material and safety measures are in place. The tap will not be performed until any applicable reinspection fees are paid in full.

**HIGH STRENGTH WASTE SURCHARGE**

The purpose of this charge is to recover operation and maintenance costs from customers whose wastewater discharge into the system is in excess of certain parameters for normal strength domestic wastewater as determined by OWASA. Based on local sampling and analysis, normal strength domestic wastewater has been determined to have the following pollutant characteristics.

<b>Normal Strength Domestic Wastewater</b>	
Carbonaceous Biochemical Oxygen Demand (CBOD)	205 mg/l
Suspended Solids (SS)	235 mg/l
Ammonia Nitrogen (NH <sub>3</sub> -N)	25 mg/l
Phosphorus (P)	6.5 mg/l

High Strength Waste Surcharges shall apply at the following rates to all wastes exceeding the above concentrations:

Carbonaceous Biochemical Oxygen Demand (CBOD)	\$0.43 per pound for all CBOD in excess of 205 mg/l
Suspended Solids (SS)	\$0.52 per pound for all SS in excess of 235 mg/l
Ammonia Nitrogen (NH <sub>3</sub> -N)	\$3.04 per pound for all NH <sub>3</sub> -N in excess of 25 mg/l
Phosphorus (P)	\$12.26 per pound for all P excess of 6.5 mg/l

**ORANGE WATER AND SEWER AUTHORITY  
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SECTION III: RECLAIMED WATER RATES AND CHARGES

MONTHLY RECLAIMED WATER RATES

Reclaimed water (RCW) charges will be billed monthly at approximately 30-day intervals. Charges are due upon receipt of the bill, and become delinquent 21 days after the original billing date. Monthly reclaimed water rates consist of two components: a monthly service charge and a commodity (volume) charge.

The University of North Carolina at Chapel Hill (UNC) funded the construction of the first phase of the reclaimed water system, and the methodology for determining reclaimed water charges applicable to UNC is stipulated by a contract between OWASA and UNC. For this reason, reclaimed water charges have been established for two major customer classes: UNC uses and non-UNC uses. As determined necessary by OWASA, and in accord with OWASA's contractual obligations to UNC, reclaimed water service to non-UNC customers may be temporarily interrupted to ensure the UNC's reclaimed water demand can be met from the facilities and capacity paid for by UNC.

Reclaimed Water Service Charge

This fixed monthly charge is calculated to recover direct and indirect costs including but not limited to customer service and billing, meter and lateral maintenance, general and administrative services, and fixed costs associated with supplying reclaimed water to the customer's property. The Reclaimed Water service charge is applicable to all metered reclaimed water accounts, independent of the quantity of reclaimed water consumed. Meter readings and service charges for first and final bills are prorated based on days of service.

UNC Reclaimed Water Use (covers all UNC reclaimed water uses served by the facilities paid for by UNC) \$24,000 per month.

<b>Non-UNC RCW Customers</b>	
<b>Meter Size</b>	<b>Per Month</b>
5/8"	\$8.37
1"	\$16.74
1.5"	\$30.96
2"	\$47.62

Service charges for non-UNC reclaimed water meters larger than 2" will be determined on a case-by-case basis following an evaluation of the reclaimed water demands of the customer.

Reclaimed Water Commodity Charge

This charge is calculated to recover the direct costs for reclaimed water treatment and distribution and all other direct and indirect costs not recovered by fixed monthly service charges. This charge is applicable to all reclaimed water accounts based on meter readings of reclaimed water consumed.

When a billing period includes a change in commodity rates, the charges are prorated based on the ratio of days in the billing period at the old and new rates. Metered monthly consumption will be billed in thousand gallon increments rounded down to the nearest thousand gallons. Unbilled

**ORANGE WATER AND SEWER AUTHORITY  
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consumption due to rounding will be carried forward and billed in the month when the next thousand gallon increment is registered by the meter.

<b>Customer Type</b>	<b>Rate per 1,000 gallons</b>
UNC Accounts	\$0.60
Non-UNC Accounts	\$2.18
Bulk (tanker) Sales	\$0.00

**RECLAIMED WATER SERVICE AVAILABILITY AND CONNECTION FEES**

**Reclaimed Water Availability Fees**

The purpose of this fee is to recover the capital costs of providing reclaimed water system facility capacity and to fund future expansion of that capacity. Since the University (UNC) has paid to construct the reclaimed water system, UNC will not be required to pay a reclaimed water availability fee for UNC facilities that are connected to and can be served by capacity available in the reclaimed water facilities paid for by the UNC.

Reclaimed water availability fees are applicable to each non-UNC connection to the reclaimed water system, regardless of who may have paid for the installation of the main to which the connection is to be made. Reclaimed water availability fees for non-UNC customers are as follows:

<b>Meter Size</b>	<b>Fee</b>
5/8"	\$1,229
1"	\$3,073
1-1/2"	\$6,146
2"	\$9,833

Reclaimed water availability fees for connections to be served by meters larger than 2 inches shall be determined on a case-by-case basis following an evaluation of the reclaimed water demands of the customer.

**Reclaimed Water Service Connection Fees**

Reclaimed water service connection fees, including meter installation and meter fees, shall be the same as the fees applicable to potable water system service connections, as specified in Section I of this schedule.

**ORANGE WATER AND SEWER AUTHORITY  
PROPOSED SCHEDULE OF RATES, FEES, AND CHARGES**

SECTION IV: MISCELLANEOUS CHARGES

SERVICE INITIATION FEE

The purpose of this charge is to defray the labor and administrative costs associated with the establishment of a water and/or sewer account. This includes establishing service and account records for billing and is applicable to all accounts.

\$45 per event  
\$80 per event, outside of normal business hours of OWASA

RETURNED CHECK CHARGE

Checks or automatic bank drafts made payable to OWASA are accepted as payment on account subject to collection. When a check or bank draft is not honored for payment by the bank or other institution on which it is drawn, a Returned Check Charge will be applied to the customer's account as follows:

Returned Check:	\$25
Dishonored Draft:	\$25

The customer will be notified of the returned check charge and instructed to pay the amount due immediately. Failure to respond within the time allowed will result in disconnection of water service and an additional charge for reconnection. The customer may also be required to pay a security deposit or an additional security deposit.

CHARGE FOR DELINQUENT ACCOUNTS

The purpose of this charge is to offset the costs of special handling of delinquent accounts, which may include, but is not limited to, the disconnection and reconnection of service due to nonpayment of the customer's bill. This charge applies to all accounts scheduled for disconnection for nonpayment and is applicable on or after the specified disconnect date, regardless of whether the service was disconnected or not. Reconnection resulting from disconnection due to nonpayment will be made within 24 hours of receipt of full payment of the balance due plus the delinquency charge and applicable security deposit.

\$45 per event, during OWASA's normal business hours  
\$80 per event, outside OWASA's normal business hours

CHARGE FOR TEMPORARY DISCONNECTION/SUBSEQUENT RECONNECTION AT CUSTOMER'S REQUEST

OWASA customers may request to have their service temporarily disconnected and subsequently reconnected. In emergency conditions, there will be no charge to the customer for this service. Additionally, no more than once in any twelve month period, a customer may request to have their service temporarily disconnected and subsequently reconnected at no charge for routine plumbing system maintenance. For requests to temporarily disconnect and subsequently reconnect service in any situation other than those listed above, the charges listed below will apply.

**ORANGE WATER AND SEWER AUTHORITY  
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The purpose of this charge is to recover the cost to temporarily disconnect and subsequently reconnect water service at the request of a customer. In situations where charges apply, the charge may be waived if the customer provides documentation that a master cutoff valve has been installed within thirty (30) days of the date of the temporary service disconnection.

\$45 per event, during OWASA's normal business hours  
\$80 per event, outside OWASA's normal business hours

**LATE PAYMENT FEE**

This fee is designed to recover a portion of the cost of delinquent payment collection efforts that arise prior to service termination and are not recovered by charges for reconnection of delinquent accounts, and to encourage customers to make timely payments, thereby reducing the overall cost of a delinquent account to the customer base. The late payment fee applies when a customer's account is delinquent as defined above.

Late Payment Fee:      For past due balances of \$10.00 or more, \$2.40 plus 0.42% a month (5% APR) of the outstanding balance.

**SECURITY DEPOSITS**

OWASA requires security deposits from customers to ensure payment of the final bill. To offset administrative costs in handling these monies, no interest is paid on security deposits.

Security deposits shall be required on all accounts other than those of (1) residential customers, whether detached or attached units, who have a satisfactory credit history as determined by a credit check, and (2) local, State and Federal governments or agencies thereof. Security deposits shall be required for accounts other than those in (1) and (2) above and shall be \$50 or \$100 depending on credit worthiness for residential customers. All security deposits must be paid at the time application for service is made and in advance of service initiation.

Any residential customer whose service has been disconnected for non-payment of billing charges twice within a six month period and for whom OWASA does not have a security deposit will be required to pay a \$50 or \$100 deposit depending on credit worthiness prior to reconnection of service.

Non-residential security deposits are required based on credit worthiness and will be computed as one or two times the average monthly bill of the previous customer at the same location over the past calendar year. If there is no previous customer at the service location, the security deposit will be determined by OWASA based on the best information available, such as OWASA's experience with similar types, sizes, etc. of businesses.

Repeated disconnections will require additional security deposits until the customer has accumulated a security deposit balance, which will cover an average of three months' billing charges.

Security deposits may be refunded upon written request after the customer has established a satisfactory payment history for twelve (12) consecutive months. Otherwise, security deposits will be applied to the final bill when a customer's account is terminated with any remaining balance refunded to the customer.

**ORANGE WATER AND SEWER AUTHORITY  
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**BULK WASTEWATER CHARGES**

Normal Domestic Septage

The purpose of these charges is to recover the costs associated with the service rendered by OWASA to those customers who discharge normal domestic septic tank wastes into the wastewater treatment facilities of OWASA. Applicable to those customers who have an account established at OWASA's Customer Service Office, charges for handling normal domestic septage will be billed to the customer on a monthly basis. The monthly bill will include two components: (1) an administrative charge for special services required to receive this type waste and rendering the monthly bill; and (2) a charge for the treatment of the septage as determined by OWASA. This charge is calculated as follows:

Administrative Charge	\$30/ trip, plus
Volume Charge and High Strength Surcharge	\$140/ thousand gallons

Other High Strength Waste

Other wastes may be discharged to OWASA's septage facilities only with prior approval by OWASA and upon OWASA's direct inspection of the actual discharge. The costs associated with these services will be as follows:

- NH<sub>3</sub>-N = Ammonia Nitrogen
- CBOD = Carbonaceous Biochemical Oxygen Demand
- TSS = Total Suspended Solids
- P = Phosphorus

Administrative Charge of \$30 / trip, plus Volume and High Strength Surcharge calculated as follows:

<b>A + B + C + D + E = Calculated Dollars per Thousand Gallons, where:</b>
A = pounds of NH <sub>3</sub> -N/thousand gallons in waste x \$3.04/pound
B = pounds of CBOD/thousand gallons in waste x \$0.43/pound
C = pounds of TSS/thousand gallons in waste x \$0.52/pound
D = \$6.48/per 1,000 gallons Sewer Commodity Charge
E = pounds of P/thousand gallons in waste x \$12.26/pound
Waste concentrations shall be determined by OWASA

**TANK SALES OR BULK WATER SALES**

The purpose of this charge is to recover the labor and administrative costs associated with the supply of bulk quantities of water to tank trucks or trailers from a metering point on the premises of OWASA. Applicable to all tank or bulk water sales, the following charges apply for each loading.

Administrative Charge	\$25 per trip, plus
Commodity Charge	\$6.02 per thousand gallons or portion thereof

Bulk sales are subject to administrative regulations and controls for protection of the wastewater system and efficient operation. Water tank trucks or trailers are only authorized to withdraw water from locations approved by OWASA and for which adequate usage monitoring measures are

**ORANGE WATER AND SEWER AUTHORITY  
PROPOSED SCHEDULE OF RATES, FEES, AND CHARGES**

provided. Charges for bulk sales are not subject to seasonal adjustments.

**DIRECT SALES OF SUPPLIES**

Applicable to the direct sale of supplies from inventory to municipalities or contractors, the supplies will be billed at the most recent cost plus a handling charge of 10%.

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**BOAT RENTAL AND LAKE USE FEES**

Fees are applicable to all persons using row boats and canoes on University Lake and Cane Creek Reservoir during scheduled hours of operation as established by OWASA. Boat rental and lake user charges are:

<b>OWASA Customers and Orange County Residents</b>	
Charge for each flat-bottomed boat or canoe rental	\$4.50 for one-half day plus the applicable lake use fee for each person
Trolling motor rental	\$15.00 for one-half day
Kayak rental	\$15.00 for one-half day plus the applicable lake use fee for each person
Private Boat Launching Fee	\$3.50 per boat plus the applicable lake use fee for each person
Lake Use Fee, Under 12 Years Old	\$2.00 per person
Lake Use Fee, 12-64 Years	\$4.50 per person
Lake Use Fee, 65 Years and over	No charge

<b>Individual Season Pass</b>	
Boat or canoe rental	\$82.00 per person. Each additional person pays appropriate lake use fee.
Lake Use Pass – Adult	\$46.00
Boat with trolling motor rental	\$163.00 per person. Each additional person pays appropriate lake use fee.

<b>Group Season Pass</b>	
Boat or canoe rental	\$163.00 (maximum of 3 people per pass.) Each additional person pays appropriate lake use fee.
Boat with trolling motor rental	\$245.00 (maximum of 3 people per pass.) Each additional person pays appropriate lake use fee.

<b>For visitors who are not OWASA Customers or Orange County Residents</b>	
Charge for each flat-bottomed boat or canoe rental	\$8.00 for one-half day plus the applicable lake use fee for each person
Trolling motor rental	\$22.00 for one-half day
Kayak rental	\$20.00 for one-half day plus the applicable lake use fee for each person
Private Boat Launching Fee	\$7.00 per boat plus the applicable lake use fee for each person
Lake Use Fee, Under 12 years old	\$2.50 per person
Lake Use Fee, 12-64 Years	\$5.50 per person
Lake Use Fee, 65 Years and over	\$2.50 per person
UNC Men’s Crew Club and Women’s Rowing Team	By agreement between UNC-Chapel Hill and OWASA

**ORANGE WATER AND SEWER AUTHORITY  
PROPOSED SCHEDULE OF RATES, FEES, AND CHARGES**

**FIELD TEST OF 5/8" METER OR 3/4" COMBINATION FIRE AND DOMESTIC SERVICE METER**

Upon a customer's written request, OWASA will conduct a special field test of the customer's 5/8" water meter or 3/4" combination fire and domestic service meter. There will be no charge for testing meters (1) which have not been tested during the past five years, or (2) which are found to be over-registering. Over-registering meters will be replaced by OWASA at no charge to the customer.

If, however, the meter has been tested within the past five years and the results of the meter test indicate proper or under-registering, the customer will be charged \$100 for the meter test.

**SHOP TESTING OF METER**

Upon a customer's written request, OWASA will conduct a special shop test of water meters that are larger than 3/4 inches. There will be no charge for testing meters (1) which have not been tested during the past five years, or (2) which are found to be over-registering. Over-registering meters will be replaced by OWASA at no charge to the customer.

If, however, the meter has been tested within the past five years and the results of the meter test indicate proper or under-registering, the customer will be charged \$160 for the shop meter test.

**FIELD TEST OF LARGE METERS**

Upon a customer's written request, OWASA will conduct a special field test of water meters that are larger than 5/8 inches. There will be no charge for testing meters (1) which have not been tested during the past five years, or (2) which are found to be over-registering. Over-registering meters will be replaced by OWASA at no charge to the customer.

If, however, the meter has been tested within the past five years and the results of the meter test indicate proper or under-registering, the customer will be charged a meter test fee based on the actual time and equipment required to complete the field test. This charge shall not be less than \$260.

**REINSPECTION FEE**

OWASA will initially inspect grease traps, cross connections and water and sewer taps at no cost to the customer. Should a subsequent reinspection be required for any of these fixtures, a \$125 fee will apply to each reinspection.

**PLAN REVIEW AND CONSTRUCTION OBSERVATION FEES**

The purpose of this charge is to recover the operating cost for providing review of construction plans for the extension of water and sewer facilities. The charge also recovers the operating cost for providing field observation, water sampling, laboratory testing, video inspection, pressure testing, etc. associated with the installation of these facilities. The plan review and construction observation fees are applicable to all extensions of the public water and/or sewer system regardless of the party which may be undertaking the improvements. The fees will be applied separately to water main and sewer main extensions, but in no case shall the fee be less than \$100.

**ORANGE WATER AND SEWER AUTHORITY  
PROPOSED SCHEDULE OF RATES, FEES, AND CHARGES**

<b>Service</b>	<b>Water</b>	<b>Sewer</b>
Plan Review	\$3.63/lf	\$3.63/lf
Construction Observation	\$3.69/lf	\$3.69/lf

**CHARGES FOR MISCELLANEOUS SERVICES**

Charges for miscellaneous services provided by OWASA shall be on a time and materials basis and include out-of-pocket expenses, cost of materials and services supplied by third parties, and overhead. Typical applications would be for repair of damages to water and sewer lines by outside parties, relocation of mains, services and meters, special services for billing information, expenses related to spill containment responses, etc.

**TRANSFER OF CHARGES**

Any unpaid balance from past due charges for water and/or sewer services of terminated accounts or Charges for Miscellaneous Services will be transferred to any available active account(s) through which the customer is receiving services. The payment status of the active account through which the customer is receiving service will be determined by the payment status of transferred accounts.

OWASA may temporarily withhold service from a customer, or refuse service to a customer when such a customer (including but not limited to individuals, corporations, or partnerships), owes OWASA any past due balance.

Accounts or portions of accounts, including charges for material or damaged property that are disputed and delinquent fees and delinquent assessment charges, may be submitted to the courts by the Executive Director, upon approval by General Counsel, for collection if such amounts do not exceed \$1,500. For amounts exceeding \$1,500, approval of the Board of Directors shall also be required prior to filing an action for collection.

**RESOLUTION ADOPTING THE ANNUAL BUDGET FOR  
ORANGE WATER AND SEWER AUTHORITY FOR THE FISCAL YEAR  
JULY 1, 2016 THROUGH JUNE 30, 2017**

**WHEREAS**, Section 7.05 of the Bond Order and North Carolina G.S. Chapter 159 require that on or before the first day of July in each fiscal year the Authority will adopt a Budget for the ensuing fiscal year; and

**WHEREAS**, such budget is to include estimates of revenues of the water, sewer and reclaimed water systems, current operations expenses, interest income, debt service costs, and disbursements from the general fund for capital improvements and equipment purchases.

**NOW, THEREFORE, BE IT RESOLVED:**

1. That pursuant to the provisions of North Carolina G.S. Chapter 159-13 the attached pages marked 2 through 6 be, and they hereby are, adopted as the official budget of Orange Water and Sewer Authority of the Fiscal Year beginning July 1, 2016 through June 30, 2017.

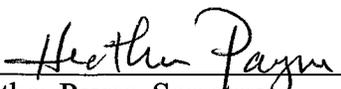
2. That the appropriations for departments, functions, and projects as shown in the attached budget for the respective purposes and in the respective amounts therein specified are hereby made.

3. That the Executive Director shall administer the budget, and is hereby authorized to expend the funds for the purposes set forth therein.

Adopted this 9th day of June 2016.

  
\_\_\_\_\_  
John A. Young, Chair

ATTEST:

  
\_\_\_\_\_  
Heather Payne, Secretary

**ORANGE WATER AND SEWER AUTHORITY**  
**STATEMENT OF INCOME, EXPENSE AND DEBT SERVICE**  
**(OPERATING)**

	<b>FY 2017 Annual Budget</b>
<b>Operating Revenue</b>	
Water	\$17,923,072
Sewer	16,578,878
Reclaimed Water	439,110
Service Initiation Fee	168,898
Other	1,069,578
Refunds and Adjustments	(325,766)
<b>Total Operating Revenue</b>	<b>\$35,853,770</b>
<b>Operating Expense</b>	
General and Administrative	6,924,545
Operations	14,083,038
<b>Total Operating Expense</b>	<b>21,007,583</b>
<b>Net Operating Income</b>	<b>14,846,187</b>
<b>Non-operating Revenue</b>	
Customer Fees	995,950
Interest	14,708
<b>Total Net Income</b>	<b>\$15,856,845</b>
<b>Debt Service</b>	
Existing	\$6,932,059
New	0
<b>Total Debt Service</b>	<b>6,932,059</b>
<b>Net Income Less Debt Service</b>	<b>\$8,924,786</b>

**ORANGE WATER AND SEWER AUTHORITY  
STATEMENT OF INCOME AND EXPENSE  
(CAPITAL/NON-OPERATING)**

		<b><u>FY 2017 Annual Budget</u></b>
<b>General Fund</b>		
Resources		
Transfer From Revenue	<u>\$8,924,786</u>	
<b>Annual Income Available for Capital</b>		\$8,924,786
Transfer from Construction Fund (Bond Proceeds)		<u>0</u>
<b>Total Available for Capital</b>		<u>8,924,786</u>
<b>Capital Expenditures</b>		
Project ordinances		
General Fund Contribution	13,648,000	
Funded by Bond Proceeds	<u>0</u>	
Total Project Resolutions		13,648,000
Capital Equipment		<u>1,227,000</u>
<b>Total Capital Outlay</b>		<u>14,875,000</u>
<b>Annual General Fund Balance</b>		(5,950,214)
<b>General Fund Beginning Balance</b>		<u>24,200,000</u>
<b>General Fund Ending Balance</b>		18,249,786
Project Funding	1,927,786	
Reserves		
Rate/Revenue Stabilization	2,000,000	
Capital Improvements	3,200,000	
Working Capital	<u>11,122,000</u>	<u>18,249,786</u>
<b>Unallocated General Fund Balance</b>		<u><u>\$0</u></u>

<b>REVENUE FUND</b>			
	<u>Water</u>	<u>Sewer</u>	<u>Total</u>
<b>Fund Balance July 1, 2016</b>			\$0
<b>Receipts</b>			
<b>Operating Revenue</b>			
Customer Billings	\$17,923,072	\$16,578,878	34,501,950
Reclaimed Water	439,110	-	439,110
Service Initiation Fee	84,449	84,449	168,898
Other	534,789	534,789	1,069,578
Refunds and Adjustments	(162,883)	(162,883)	(325,766)
<b>Total Operating Revenue</b>	18,818,537	17,035,233	35,853,770
<b>Non-operating Revenue</b>			
Customer Fees	429,980	565,970	995,950
Interest Income	7,354	7,354	14,708
<b>Total Non-operating Revenue</b>	437,334	573,324	1,010,658
<b>Total Receipts</b>	19,255,871	17,608,557	36,864,428
<b>Expenditures</b>			
Current Expense	(11,871,436)	(9,136,147)	(21,007,583)
Debt Service	(4,505,838)	(2,426,221)	(6,932,059)
<b>Total Expenditures</b>	(16,377,274)	(11,562,368)	(27,939,642)
<b>Net Revenue</b>			8,924,786
<b>To General Fund</b>			(8,924,786)
<b>Fund Balance June 30, 2017</b>			<u>0</u>
<b>Change in Available Balance</b>			<u><u>\$0</u></u>

**BOND SERVICE FUND**

<b>Fund Balance July 1, 2016</b>		\$0
<b>Receipts</b>		
Transfers from Revenue Fund	\$6,932,059	
Interest		
	<hr/>	
<b>Total Receipts</b>		6,932,059
<b>Expenditures</b>		
Debt Service	6,932,059	
	<hr/>	
<b>Total Expenditures</b>		<hr/> (6,932,059)
<b>Fund Balance June 30, 2017</b>		<hr/> 0
<b>Change in Available Balance</b>		<hr/> <hr/> \$0

## GENERAL FUND

<b>Fund Balance July 1, 2016</b>		\$24,200,000
<b>Receipts</b>		
Transfer From Revenue fund	8,924,786	
Transfer From Construction Fund (Loan Proceeds)	0	
Interest	0	
Assessments	0	
Grants and contributions	0	
	<hr/>	
<b>Total Receipts</b>		<hr/> 8,924,786
<b>Total Balance Before Expenditures</b>		33,124,786
<b>Expenditures</b>		
Capital Equipment/Leases	1,227,000	
Project Resolutions	13,648,000	
Transfer to Revenue Fund	0	
	<hr/>	
<b>Total Expenditures</b>		<hr/> (14,875,000)
<b>Fund Balance June 30, 2017</b>		<hr/> <hr/> \$18,249,786
<b>Allocation of Fund Balance June 30, 2017</b>		
Project Funding	1,927,786	
Capital Reserves	16,322,000	
	<hr/>	
<b>Total Allocation</b>		<hr/> <hr/> \$18,249,786
<b>Unallocated General Fund Balance June 30, 2017</b>		<hr/> 0
<b>Change in Available Balance</b>		<hr/> <hr/> (\$5,950,214)

**RESOLUTION APPROVING THE CAPITAL IMPROVEMENTS PROGRAM AND BUDGET  
FOR FISCAL YEARS 2017-2021**

**WHEREAS**, a Five-Year Capital Improvements Program and budget enables Orange Water and Sewer Authority to identify, assess, and project the water and sewer systems' capital projects in an orderly, coordinated, and fiscally sound manner, and to plan for the replacement and repair of existing facilities; and

**WHEREAS**, the Capital Improvements Program and budget for Fiscal Years 2017-2021 have been developed by the staff, reviewed by the Board of Directors, and revisions incorporated therein; and

**WHEREAS**, a Public Hearing on the Capital Improvements Program was held on May 26, 2016;

**NOW, THEREFORE, BE IT RESOLVED:**

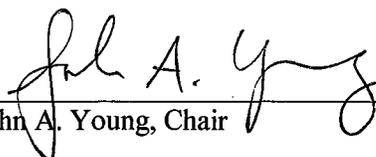
1. The Board of Directors of Orange Water and Sewer Authority approves the Capital Improvements Program and budget for Fiscal Years 2017-2021 as required by the Financial Management Policy.

2. That the Executive Director be, and is hereby, authorized to administer the planning, studies, design, and financing, and make recommendations to the Board of Directors for award of contracts, as appropriate, for the projects in the Capital Improvements Budget.

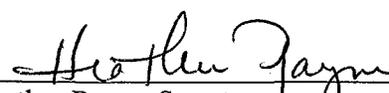
3. The Five-Year Capital Improvements Program Budget for Fiscal years 2017-2021 is as follows:

<u>Fiscal Year</u>	<u>Amount</u>
2017	\$13,648,000
2018	22,506,000
2019	15,643,000
2020	17,461,000
2021	<u>17,852,000</u>
Total	<u>\$87,110,000</u>

Adopted this 9th day of June 2016.

  
\_\_\_\_\_  
John A. Young, Chair

**ATTEST:**

  
\_\_\_\_\_  
Heather Payne, Secretary

**CAPITAL PROJECT RESOLUTION FOR  
FISCAL YEAR 2017 INFRASTRUCTURE IMPROVEMENTS**

**WHEREAS**, present infrastructure must be maintained and additional infrastructure developed to meet future needs; and

**WHEREAS**, Orange Water and Sewer Authority (OWASA) has determined that certain additional infrastructure improvements are needed, including improvements to the water supply system; water treatment and distribution system; wastewater collection, treatment and disposal system; reclaimed water system; and support services facilities; and

**WHEREAS**, adequate funds will be available for the completion of these improvements;

**NOW, THEREFORE, BE IT RESOLVED:**

1. A project fund of \$13,648,000 is hereby established and expenditures therefrom authorized for the following improvements:

**Expenditures**

**Water Supply Improvements:**

Jordan Lake Raw Water Supply Allocation	\$5,000
Stone Quarry Reservoir Development	15,000
Cane Creek and University Lake Sodium Permanganate Feed Systems	900,000
University Lake Pump Station Improvements	50,000
 Subtotal	 970,000

**Water Treatment and Distribution Improvements:**

Water Main -- Road Improvement Projects	110,000
Water Facility Security Upgrades	200,000
Water Treatment Plant Generator Building Louvers Replacement	80,000
Water Line Rehabilitation/Replacement Projects	531,000
Rosemary, Henderson and Hillsborough Streets Water Mains	2,110,000
Advanced Meter Infrastructure (AMI) System	1,005,000
Galvanized Water Main Replacements	300,000
Water Treatment Plant Recapitalization/Rehabilitation Projects	75,000
Water Treatment Plant Switchgear Upgrade	85,000
Water Treatment Plant Lighting Improvements	50,000
Water Treatment Plant Sedimentation Basis Rehabilitation	100,000
Water and Wastewater Facilities Concrete Condition Assessment	100,000
Water Treatment Plant Filter Media and Backwash Pump Replacement	250,000
Dobbins Drive Water Main	68,000
Water Distribution System Hydraulic Model	30,000
Hillsborough Street Water Main Replacement and MLK Blvd Abandonment	200,000
 Subtotal	 5,294,000

**Wastewater Collection, Treatment and Disposal Improvements:**

Rogers Road Gravity Sanitary Sewer Extension	946,000
Rogers Road Gravity Sanitary Sewer Extension Reimbursement	(946,000)
Wastewater Treatment Plant (WWTP) Main Potable Water Line -- Backflow Preventer Installation	80,000
Sanitary Sewer Condition Assessment	1,474,000
Sanitary Sewer Rehabilitation	1,324,000
Bolinwood Drive Interceptor	450,000
Little Creek Interceptor	550,000

Capital Project Resolution for Fiscal Year 2016 Infrastructure Improvements

June 9, 2016

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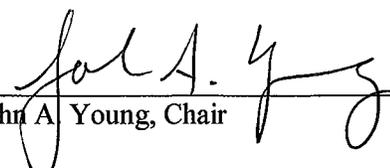
Creek Crossing Access Improvements	50,000
Eastowne, Eubanks, Meadowmont 1 Pump Station Rehabilitation	125,000
Rogerson Drive Pump Station Rehabilitation	250,000
Knolls Pump Station Rehabilitation	80,000
Comprehensive Coatings Program	300,000
WWTP Digesters #1 & #2 Rehabilitation	400,000
WWTP Intermediate Pump Stations (IPS) Rehabilitation/Replacement	91,000
WWTP Stormwater Pump Station Electrical System Rehabilitation	50,000
WWTP Non Drinking Water Pump Replacements	275,000
WWTP Secondary Clarifier Rehabilitation and Chlorine Chamber Demo	50,000
Dobbins Drive Interceptor	200,000
Sanitary Sewer Hydraulic Model	150,000
Rogerson Drive Force Main Redundancy Evaluation	50,000
WWTP Gravity Belt Thickener Replacement	180,000
WWTP SCADA System Upgrade	150,000
WWTP Critical Spare Pumps	125,000
Water and Wastewater Facilities Building Envelope Rehabilitation	100,000
Subtotal	<hr/> 6,504,000
<b>Support Services Facilities Improvements:</b>	
Administration Building HVAC System Upgrade	880,000
Subtotal	<hr/> 880,000
Total Expenditures	<hr/> <hr/> \$13,648,000

**Revenues**

Transfers from the General Fund, Bond or Loan Proceeds, and Grants	<hr/> <hr/> \$13,648,000
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2. That supplementary funds will be appropriated in future years for completion of the projects.
3. That this Resolution shall take effect upon its passage.
4. That this Resolution shall be entered in the Minutes of OWASA and within five (5) days after its adoption copies thereof shall be filed with the Finance Officer, the Budget Officer, and the Clerk to the Board of Directors as required by General Statute 159-13.2(d).

Adopted this 9th day of June 2016.

  
John A. Young, Chair

**ATTEST:**

  
Heather Payne, Secretary

**RESOLUTION UPDATING THE SCHEDULE OF EMPLOYEE CLASSIFICATION  
AND AUTHORIZED COMPENSATION; ADJUSTING AFFECTED EMPLOYEES'  
COMPENSATION TO THE MINIMUM OF THE PAY RANGE;  
AND AUTHORIZING COST OF LABOR AND MERIT PAY INCREASES  
FOR ELIGIBLE EMPLOYEES**

**WHEREAS**, the Orange Water and Sewer Authority maintains a Schedule of Employee Classification and Authorized Compensation which provides the appropriate number of properly classified and compensated employees to efficiently and effectively fulfill the organization's duties and responsibilities; and

**WHEREAS**, the Board of Directors has determined that it is reasonable and prudent in achieving and maintaining competitiveness in the market to increase the pay ranges in the Schedule of Employee Classification and Authorized Compensation; and

**WHEREAS**, the Board of Directors has determined that it is reasonable and prudent to provide Merit Increases to provide fair and equitable compensation so that qualified employees may be retained to do the work necessary for the operation of the OWASA service system:

**NOW THEREFORE, BE IT RESOLVED:**

1. That the Board of Directors hereby approves a 1.5 % Cost of Labor increase for eligible employees who have earned a Successful or Exceptional Performance review during the October 2016 annual review process and the Executive Director is directed to adjust and implement the same percentage increase in salary ranges in the Schedule of Employee Classification and Authorized Compensation.
2. That the Board of Directors hereby approves a Merit increase to employees earning a performance review rating of "Successful" during the October 2016 annual review process by increasing base pay 1.5%
3. That the Board of Directors hereby approves a Merit increase to employees earning a performance review rating of "Exceptional" during the October 2016 annual review process by increasing base pay 3%.
4. That employees whose salaries fall below the minimum amount of the new pay ranges shall be brought up to the minimum of the respective pay range regardless of the performance rating earned.
5. That the pay adjustments will be effective October 31, 2016.

Orange Water and Sewer Authority

June 9, 2016

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Adopted this 9<sup>th</sup> day of June 2016.

  
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John A. Young, Chair

ATTEST:

  
\_\_\_\_\_  
Heather Payne  
Secretary