

# Annual Comprehensive Financial Report



FISCAL YEARS  
ENDED JUNE 30,  
2021 AND 2020



ORANGE WATER AND  
SEWER AUTHORITY

*OWASA is Carrboro-Chapel Hill's not-for-profit public service agency delivering high quality water, reclaimed water, and wastewater services.*

**ORANGE WATER AND SEWER AUTHORITY**  
(A COMPONENT UNIT OF THE TOWN OF CHAPEL HILL, NORTH CAROLINA)

**ANNUAL COMPREHENSIVE FINANCIAL REPORT**  
**FOR THE FISCAL YEARS ENDED JUNE 30, 2021 AND 2020**

**Prepared by:**

**Orange Water and Sewer Authority**

**ORANGE WATER AND SEWER AUTHORITY**  
**ANNUAL COMPREHENSIVE FINANCIAL REPORT**  
**FOR THE FISCAL YEARS ENDED JUNE 30, 2021 AND 2020**

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**ORANGE WATER AND SEWER AUTHORITY**  
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## Orange Water and Sewer Authority

OWASA is Carrboro-Chapel Hill's not-for-profit public service agency delivering high quality water, wastewater, and reclaimed water services.

September 7, 2021

### **To our Customers, Bondholders and the Orange Water and Sewer Authority Board of Directors:**

We are pleased to present our Annual Comprehensive Financial Report for the Fiscal Year beginning July 1, 2020 and ending June 30, 2021 (FY 2021). This report conforms to the reporting and accounting standards of the Governmental Accounting Standards Board (GASB), the Financial Accounting Standards Board (FASB), and the Government Finance Officers Association's (GFOA's) *Governmental Accounting, Auditing and Financial Reporting* document. Orange Water and Sewer Authority (OWASA) is responsible for the accuracy, completeness and fairness of the information presented including all disclosures.

### **Highlights**

In FY 2021, OWASA served the Carrboro-Chapel Hill community in full compliance with federal and state standards for drinking water, treated wastewater, and reclaimed water quality.

OWASA's financial position improved during the year. OWASA ended the year with a modified accrual based net income less debt service of about \$7.9 million. The resulting increase in financial reserves will be used for future capital improvement needs.

Please refer to the management's discussion and analysis and the audited general purpose financial statements for additional information on OWASA's financial performance during FY 2021.

### **Scope and Organization of this Report**

- **The Introductory Section** (unaudited) contains this letter of transmittal and information about OWASA's organizational structure, principal officers, major initiatives, accomplishments, and future projects.
- **The Financial Section** includes the independent auditor's report; OWASA management's discussion and analysis of the year; the general-purpose financial statements; and supplementary schedules. The general-purpose financial statements can be issued separately for securities offerings or other purposes.
- **The Statistical Section** (unaudited) presents fiscal and other data to provide a more complete understanding of OWASA, the community we serve and the local economy.
- **The Compliance Section** presents the independent auditor's report on compliance with various internal control and other requirements related to certain forms of financial assistance.

As a single-purpose governmental entity, OWASA's financial activities are reported as a sole enterprise fund through which is captured and disclosed the inflow and outflow of total economic resources under the full accrual method of accounting. For financial reporting purposes under GASB Statement 14,



OWASA is considered a component unit of the Town of Chapel Hill because the Town Council appoints a majority of OWASA's Board Members and may remove them without cause. The Annual Comprehensive Financial Report (ACFR) of the Town of Chapel Hill therefore includes OWASA's financial data and OWASA's ACFR includes statistical data about the Town.

### **Background**

A special purpose local governmental entity organized under state law, OWASA is a public non-profit agency providing water, wastewater and reclaimed water services to the Carrboro-Chapel Hill community. We serve about 85,000 people.



*University of North Carolina Campus*

### **Creation of OWASA**

Before OWASA was established, the University of North Carolina at Chapel Hill (UNC) and the Towns of Chapel Hill and Carrboro provided public water and sewer services to the Carrboro-Chapel Hill community.

Following recommendations of a Utilities Study Commission created in 1971, on August 9, 1976, the state approved conveyance of the University's water and wastewater utilities to OWASA in accord with *Agreements of Sale and Purchase* among the University, the Towns and OWASA. The Town of Carrboro, the Town of Chapel Hill and Orange County governing boards incorporated OWASA under Chapter 162A of state law. OWASA began serving the community on February 16, 1977, upon transfer of the municipal and University systems to OWASA.



*Cane Creek Reservoir*

### **Governance**

A nine-member Board of Directors governs OWASA. The Chapel Hill Town Council appoints five, and the Carrboro Town Council and the Orange County Board of Commissioners each appoints two Board Members. The OWASA Board adopts the annual budget; sets rates, fees, and charges based on cost-of-service principles; makes policy decisions; approves issuance of revenue bonds or other debt instruments; and appoints the Executive Director, General Counsel and Independent Auditor.

### **Water System**

Our water comes from Cane Creek Reservoir, a three-billion-gallon supply eight miles west of Carrboro; University Lake, a 450-million-gallon reservoir on the west side of Carrboro; and the 200 million-gallon Quarry Reservoir three miles west of Carrboro.



*University Lake*



OWASA has a state allocation of water supply storage capacity in Jordan Lake equivalent to about five million gallons of water per day (MGD). OWASA does not currently receive water from Jordan Lake to meet the daily needs of its service area nor does it own facilities to do so. However, through mutual aid agreements, OWASA can obtain drinking water from Jordan Lake from the Town of Cary through OWASA's system connection with the City of Durham. OWASA also maintains emergency water system connections with the Town of Hillsborough and Chatham County public drinking water systems.

Our Jones Ferry Road Water Treatment Plant (WTP) has a capacity of 20 MGD. Our drinking water storage capacity is eight million gallons, and we maintain about 400 miles of raw water, finished water, and water interconnection lines.

OWASA met or surpassed all federal and state standards for drinking water quality in 2021.

### **Wastewater System**

We operate and maintain about 340 miles of sanitary sewer and force main lines, and 21 pump stations to carry wastewater to the Mason Farm Wastewater Treatment Plant (WWTP), which has a peak treatment capacity of 14.5 MGD (daily average for a calendar month).



*Mason Farm Wastewater Treatment Plant*

Highly treated wastewater is recycled to the natural environment at Morgan Creek on the southeast side of Chapel Hill or provided as reclaimed water for non-drinking uses as described below. Morgan Creek is a tributary of Jordan Lake, a water source for several communities in the region.

OWASA's treated wastewater was in full compliance with regulatory standards in 2021.

## **Reclaimed Water System**

OWASA operates a reclaimed water (RCW) system at the Mason Farm WWTP. Federal and state grants funded about 10% of the project to build the system with UNC, OWASA's primary RCW customer, providing funds for the balance of the construction costs.

The RCW system is financially self-supporting. OWASA recovers all operating, maintenance, management, and overhead costs through rates and fees. Financial responsibilities, including rate decisions by OWASA, and other technical matters are specified in a contract between OWASA and UNC.

The University uses RCW for make-up water in cooling towers at chiller plants, toilet flushing, and irrigation. UNC's RCW use averaged about 670,000 gallons per day during FY 2021.

By decreasing the amount of drinking water used for non-drinking purposes, the RCW system helps reduce the community's risks in future droughts and other water shortages. The system also enables OWASA to defer the need for expansion of water supply and treatment capacity and reduces energy use and costs.

## **Economic Conditions**

In March 2020, the COVID-19 pandemic began impacting the economy of OWASA's service area. UNC essentially closed its campus and conducted classes online for the rest of the semester. Many businesses closed or significantly reduced operations. Drinking water demand for UNC and businesses decreased substantially while water use by residences increased. The pandemic continued to impact the service area in FY 2021 resulting in about a 10% decrease in customer water demand as compared to the average use in recent years.

In June 2021, the unemployment rate in Orange County was 6% compared to the North Carolina average of 3.7 percent and US average of 5.9 percent (Source: US Bureau of Labor Statistics). According to the most recent census, the estimated population of Orange County increased by 13 percent from 2000 to 2010. The estimated population for Orange County as of December 2020 was 148,972.



*Mural in Downtown Chapel Hill*

## **Financial Information**

The annual budget is an integral part of OWASA's financial operations. Appropriations are set at the departmental level. The annual budget and capital project ordinances are adopted by the OWASA Board of Directors creating a legal limit on annual spending. Multi-year project ordinances are adopted for capital projects. OWASA's operations are accounted for, and reported as, an enterprise fund because our services are primarily funded with user fees.

OWASA's management is responsible for the accounting system and for establishing and maintaining internal financial controls. The internal control system is designed to provide reasonable assurance regarding the safeguarding of assets against loss from unauthorized use or disposition and the reliability of financial records for preparing financial statements in conformity with accounting principles generally accepted in the United States of America. Management believes that OWASA's internal accounting controls adequately protect assets and provide reasonable assurance of the proper recording of financial transactions.

OWASA is required by law to use cost-of-service rates. We set our rates, fees and charges to cover the cost of each of our services. We use increasing block water rates for individually metered residential customers and a year-round water rate for multi-family master metered customers. OWASA uses seasonal water rates for non-residential customers; non-residential customers pay a higher water rate during the peak demand months of May through September and a lower rate in the remaining months. Irrigation-only water customers pay a year-round water rate due to the higher system capacity needed to serve them. When development creates new connections to OWASA's system, fees are charged to ensure that the appropriate portion of the costs of providing system capacity is paid for by the parties that tap into and benefit from that capacity. Annual adjustments of rates, fees and charges normally occurs on October 1.

## **Independent Audit**

OWASA is required by state law to undergo an annual independent financial audit. OWASA's auditor, Martin, Starnes & Associates, CPAs, P.A., was retained following an open, competitive, qualifications-based selection process. The independent auditor's report on the General-Purpose Financial Statements is included in the Financial Section of this report.

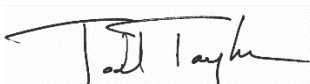
## **Acknowledgements**

We express our appreciation to the independent certified public accountants, Martin, Starnes & Associates, CPAs, P.A., who assisted and significantly contributed to this report.

Preparation of this report could not have been accomplished without the efficient and dedicated work of the OWASA team.

We thank the OWASA Board of Directors for their responsible policy guidance in financial management.

Respectfully submitted,



Todd Taylor, P.E.  
Executive Director



Stephen Winters, CPA  
Director of Finance and Customer Service



Government Finance Officers Association

Certificate of  
Achievement  
for Excellence  
in Financial  
Reporting

Presented to

**Orange Water and Sewer Authority  
North Carolina**

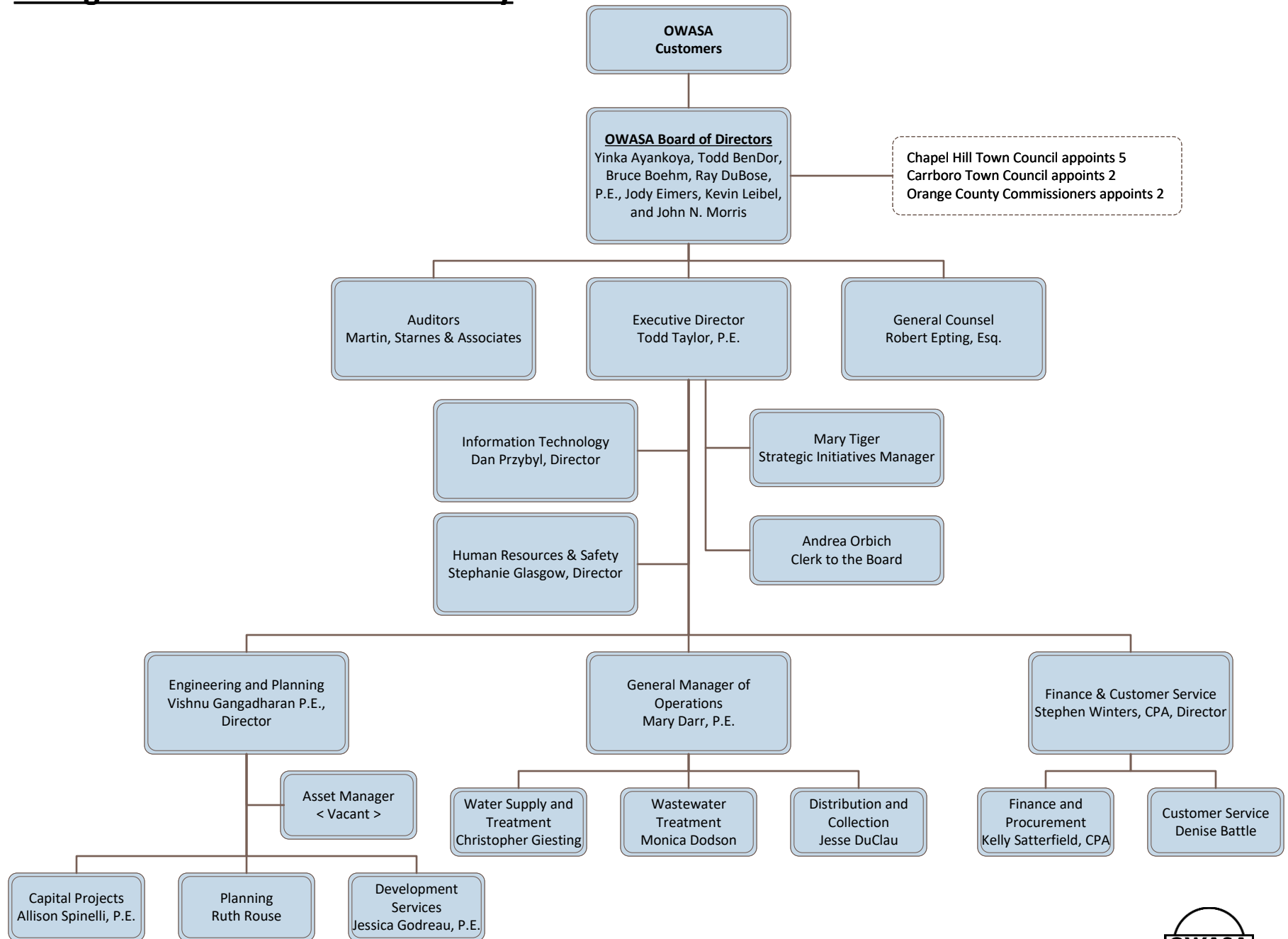
For its Comprehensive Annual  
Financial Report  
For the Fiscal Year Ended

June 30, 2020

*Christopher P. Morill*

Executive Director/CEO

# Orange Water and Sewer Authority



viii



7-10-2021

**ORANGE WATER AND SEWER AUTHORITY**  
**BOARD OF DIRECTORS**

**CHAIR**

Jody Eimers  
3120 Landeau Drive  
Hillsborough, NC 27278  
Appointed by Orange County; Term Expires on 6/30/2024

**VICE CHAIR**

Yinka Ayankoya  
200 Gary Road  
Carrboro, NC 27510  
Appointed by Carrboro; Term Expires on 6/30/2022

**SECRETARY**

John N. Morris  
614 Beechtree Court  
Chapel Hill, NC 27514  
Appointed by Chapel Hill; Term Expires on 6/30/2023

**MEMBERS**

Todd BenDor  
904 Coker Drive  
Chapel Hill, NC 27517  
Appointed by Chapel Hill; Term Expires on 6/30/2024

Bruce Boehm  
1921 South Lakeshore Drive  
Chapel Hill, NC 27514  
Appointed by Chapel Hill; Term Expires on 6/30/2022

Raymond (Ray) DuBose, P.E.  
103 Easy Street  
Chapel Hill, NC 27516  
Appointed by Orange County; Term Expires on 6/30/2023

Kevin M. Leibel  
105 Saint Andrews Place  
Chapel Hill, NC 27517  
Appointed by Chapel Hill; Term Expires on 6/30/2023

Vacant Carrboro Seat

Vacant Chapel Hill Seat

**Orange Water and Sewer Authority**

**Management Team**

Denise Battle, Customer Service Manager  
Mary Darr, P.E., General Manager of Operations  
Monica Dodson, Wastewater Treatment and Biosolids Recycling Manager  
Jesse DuClau, Distribution and Collections Systems Manager  
Vishnu Gangadharan, P.E., Director of Engineering and Planning  
Christopher Giesting, Water Supply and Treatment Manager  
Stephanie Glasgow, M.E.S.H., P.H.R., Director of Human Resources and Safety  
Jessica Godreau, P.E., Engineering Manager (Development Services)  
Andrea Orbich, Clerk to the Board/Executive Assistant  
Dan Przybyl, Director of Information Technology  
Ruth Rouse, Planning and Development Manager  
Kelly Satterfield, CPA, Finance and Procurement Manager  
Allison Spinelli, P.E., Engineering Manager (Project Management)  
Todd Taylor, P.E., Executive Director  
Mary Tiger, Strategic Initiatives Manager  
Stephen Winters, CPA, Director of Finance and Customer Service

**General Counsel**

Robert Epting, Esquire  
Epting and Hackney, Attorneys at Law

# MARTIN STARNES & ASSOCIATES, CPAs, P.A.

*"A Professional Association of Certified Public Accountants and Management Consultants"*

## **Independent Auditor's Report**

To the Board of Directors  
Orange Water and Sewer Authority  
Carrboro, North Carolina

### **Report on the Financial Statements**

We have audited the accompanying financial statements of the business-type activities of the Orange Water and Sewer Authority (the "Authority") (a component unit of the Town of Chapel Hill, North Carolina), as of and for the years ended June 30, 2021 and 2020, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements as listed in the table of contents.

### **Management's Responsibility for the Financial Statements**

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

### **Auditor's Responsibility**

Our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.



## **Opinion**

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the business-type activities of the Orange Water and Sewer Authority as of June 30, 2021 and 2020, and the respective changes in financial position and cash flows, thereof, for the years then ended in accordance with accounting principles generally accepted in the United States of America.

## ***Other Matters***

### *Required Supplementary Information*

Accounting principles generally accepted in the United States of America require that the Management's Discussion and Analysis, the Other Post-Employment Benefits Schedules of Changes in the Total OPEB Liability and Related Ratios, and the Local Governmental Employees' Retirement System Schedules of the Proportionate Share of Net Pension Asset/Liability and Contributions be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of the financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

### *Supplementary and Other Information*

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the Orange Water and Sewer Authority's basic financial statements. The introductory information, budgetary schedules, the statistical section, as well as the Schedule of Expenditures of Federal and State Awards, as required by Title 2 U.S. *Code of Federal Regulations (CFR) Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards*, and the State Single Audit Implementation Act, are presented for purposes of additional analysis and are not a required part of the basic financial statements.

The budgetary schedules and the Schedule of Expenditures of Federal and State Awards are the responsibility of management and were derived from, and relate directly to, the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the budgetary schedules and the Schedule of Expenditures of Federal and State Awards are fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The introductory information and the statistical section have not been subjected to the auditing procedures applied in the audit of the basic financial statements, and accordingly, we do not express an opinion or provide assurance on them.

### **Other Reporting Required by *Government Auditing Standards***

In accordance with *Government Auditing Standards*, we have also issued our report dated September 7, 2021 on our consideration of the Authority's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements, and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Orange Water and Sewer Authority's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Authority's internal control over financial reporting and compliance.

*Martin Starnes & Associates, CPAs, P.A.*

Martin Starnes & Associates, CPAs, P.A.  
Hickory, North Carolina  
September 7, 2021

## Management's Discussion and Analysis

The management of the Orange Water and Sewer Authority (OWASA) offers the following discussion and analysis as a supplement to the organization's financial position and activities for the fiscal years ended June 30, 2021 and 2020. This presentation is intended to enhance the readers' understanding of the financial statements which follow and should be read in conjunction with those statements and the introductory letter of transmittal found on pages i–vi.

### Financial Highlights

- At June 30, 2021, OWASA's assets and deferred outflows of resources exceeded its liabilities and deferred inflows of resources by \$279.5 million.
- OWASA's total net position increased by \$3.3 million, primarily resulting from income realized from operating activities.
- Due to the condition and capacity of OWASA's system, about 71% of the organization's \$15.8 million capital expenditures for Fiscal Year (FY) 2021 was invested in replacing and rehabilitating existing infrastructure.
- Non-current liabilities increased by about \$21.9 million as a result of securing low-interest loans from the state of North Carolina, issuing the Series 2021 revenue bonds, and making principal payments on long-term debt.
- OWASA's credit ratings of AA+ from Fitch, Aa1 from Moody's, and AAA from Standard & Poor's remain unchanged.

### Overview of the Financial Statements

OWASA's primary mission is to provide water, wastewater, and reclaimed water services to Chapel Hill, Carrboro, and portions of southeastern Orange County. OWASA does not provide other general purpose government services or programs. OWASA's operations, capital improvements program, and debt payments are funded almost entirely through rates, fees and other charges for water, wastewater, and reclaimed water services. OWASA is considered to be, and therefore presents its financial report, as a stand-alone enterprise fund.

As a stand-alone enterprise fund, OWASA's basic financial statements consist of a *Statements of Net Position*, a *Statements of Revenues, Expenses and Changes in Net Position* and a *Statements of Cash Flows*. These statements, together with the *Management's Discussion and Analysis*, provide both short- and long-term financial information about OWASA's financial position. Presentations of two-year and three-year comparative data in these schedules are intended to enhance the reader's ability to gauge OWASA's fiscal strength and provide useful trend information. *Notes to the Financial Statements* and a *Schedule of Revenues and Expenditures – Budget and Actual* appear immediately following the basic financial statements. In addition, other required supplementary information, generally statistical and demographic in nature, is presented.

The *Statements of Net Position* presents OWASA's basic financial position through disclosure of information about OWASA's assets and liabilities. Net position represents the difference between total assets and deferred outflows of resources and total liabilities. Over time, net position may serve as a useful indicator of OWASA's financial condition.

The *Statements of Revenues, Expenses and Changes in Net Position* provides information regarding OWASA's total economic resource inflow and outflow (accrual method of accounting). The difference between these inflows and outflows represents the change in net position, which links this statement to the *Statements of Net Position*.

The *Statements of Cash Flows* deals specifically with the flow of cash and cash equivalents arising from operating, capital and related financing and investing activities. Because OWASA's *Statements of Revenues, Expenses and Changes in Net Position* measures the flow of total economic resources, operating income usually differs from net cash flow from operations. To supplement the reader's understanding of this difference, the *Statements of Cash Flows* includes reconciliation between these two amounts. In accordance with accounting principles generally accepted in the United States, a reconciliation of cash and cash equivalents is also presented in this statement.

The *Notes to the Financial Statements* provide additional information that is essential to a full understanding of the data provided in the financial statements.

## Financial Analysis

<b>Orange Water and Sewer Authority</b>				
<b>Schedule of Net Position</b>				
<b>(\$ millions)</b>				
	<b><u>Fiscal Year Ended</u></b>			<b><u>Percentage of Change (2020 to 2021)</u></b>
	<b><u>2021</u></b>	<b><u>2020</u></b>	<b><u>2019</u></b>	
Current assets	\$38.1	\$29.5	\$29.5	29.2%
Capital and other long-term assets	<u>358.1</u>	<u>350.0</u>	<u>331.5</u>	2.3
<b>Total assets</b>	396.2	379.5	361.0	4.4
Total deferred outflows of resources	6.0	2.7	4.0	122.2
Current liabilities	11.0	15.8	15.1	(30.4)
Non-current liabilities	<u>110.3</u>	<u>88.4</u>	<u>75.9</u>	24.8
<b>Total liabilities</b>	121.3	104.2	91.0	16.4
Total deferred inflows of resources	1.4	1.8	1.6	(22.2)
Net position				
Net investment in capital assets	263.6	270.0	266.1	(2.4)
Restricted	0.3	0.3	0.2	0.0
Unrestricted	<u>15.6</u>	<u>5.9</u>	<u>6.1</u>	164.4
<b>Total net position</b>	<u>\$279.5</u>	<u>\$276.2</u>	<u>\$272.4</u>	1.2

OWASA's assets exceeded liabilities by \$279.5 million at June 30, 2021, compared to \$276.2 million and \$272.4 million at June 30, 2020 and 2019, respectively. OWASA's overall financial position strengthened between FY 2019 and 2021 as net position increased by \$7.1 million. Total assets increased during the same period by \$35.2 million. These trends reflect investments in infrastructure improvements funded through a combination of cash and debt.

Net capital assets comprised about 91% of total assets for the comparative years of 2019 through 2021. These capital assets are essential in providing water and wastewater services to customers and are not available for future spending. The resources needed to repay the related debt must be provided by other sources. At June 30, 2021, these other unrestricted resources totaled \$15.6 million and may be used for any lawful purpose.

Non-current liabilities increased by approximately 45.3% or \$34.4 million during the same period reflecting increases in low-interest loans from the state of North Carolina and outstanding revenue bonds, net of principal payments on long-term debt.

OWASA anticipates continued increases in net position arising from its planned capital improvements program and projected excess of revenues and contributions over expenditures.

<b>Orange Water and Sewer Authority</b>				
<b>Revenues, Expenses and Change in Net Position</b>				
(\$ Millions)				
	<b><u>Fiscal Year Ended</u></b>			<b><u>Percentage of Change</u></b> <b><u>(2020 to 2021)</u></b>
	<b><u>2021</u></b>	<b><u>2020</u></b>	<b><u>2019</u></b>	
<b>Operating revenues</b>				
Water, wastewater, reclaimed water	\$34.7	\$35.3	\$35.2	(1.7%)
Other	<u>0.8</u>	<u>1.0</u>	<u>1.0</u>	(20.0)
Total operating revenues	35.5	36.3	36.2	(2.2)
Operating expenses	<u>33.4</u>	<u>33.6</u>	<u>32.5</u>	(0.6)
<b>Operating income</b>	2.1	2.7	3.7	(22.2)
Non-operating revenues (expenses)	<u>(0.2)</u>	<u>(0.9)</u>	<u>(0.1)</u>	(77.8)
<b>Income before contributions</b>	1.9	1.8	3.6	5.6
Capital contributions	<u>1.4</u>	<u>2.0</u>	<u>4.0</u>	(30.0)
<b>Increase (decrease) in net position</b>	3.3	3.8	7.6	(13.2)
Net position, July 1	276.2	272.4	264.8	1.4
Net position, June 30	<u>\$279.5</u>	<u>\$276.2</u>	<u>\$272.4</u>	1.2

The above condensed three-year comparison of Revenues, Expenses and Change in Net Position, combined with the following discussion provides additional insight regarding changes in net position.

- Operating Revenues:** OWASA is not empowered to levy or collect taxes, nor does OWASA receive funding from the taxing authorities within its service area. OWASA's operations, capital improvements program and debt service are funded almost entirely from fees charged to customers for water, wastewater, and reclaimed water services, and other related services. As a result, OWASA's revenue stream is impacted by fluctuations in demand for services and other economic factors.

Revenues derived from water, wastewater, and reclaimed water services are comprised of two components; a fixed monthly service charge based on the size of the installed water meter and a monthly volume usage (commodity) charge per thousand gallons of water consumed. The wastewater commodity charge is measured based on water consumption. However, for single-family residential customers, the wastewater commodity charge incorporates the assumption that not all water consumed is returned to the wastewater system. Wastewater billings for residential customers are capped at 15,000 gallons per month. All rates, fees and charges are calculated under a cost-of-service rate-making methodology.

In FY 2021, drinking water volume sales averaged 5.6 million gallons per day (mgd); the averages for 2020 and 2019, were 5.8 and 6.0 mgd, respectively. The decline in drinking water demand in FY 2021 and 2020 was largely attributable to the impact that the COVID-19 pandemic on the local economy.

Drinking water demand remains much lower than long-term historical trends and reflects OWASA's and its customers' continued commitment to water conservation, the conservation signal delivered through the increasing block rate and seasonal pricing structures for single-family residential and nonresidential customers, respectively, and the use of reclaimed water by the University of North Carolina. Operating revenues for FY 2021 were about 2.2% less than the previous year or \$35.5 million.

- **Operating Expenses:** Operating expenses were \$33.4 million or about 0.6% less than FY 2020 and approximately 2.8% greater than FY 2019. OWASA's department managers expended about 6% less than the original amount budgeted for FY 2021. Operating expenses includes a \$10.5 million charge for depreciation and a \$987,000 charge for post-employment benefits. OWASA's ability to meet operating expenses and adequately cover debt service remained positive.
- **Non-Operating Revenues (Expenses):** Non-operating revenues are comprised primarily of system development fees, interest earnings, and gains (or losses) from the sale of surplus property. System development fees are calculated to recover from new customers a share of the cost of system capacity when a new connection is made to the system. Non-operating expenditures are made up primarily of interest expense on debt and amortization of bond expenses.

System development fee revenue was approximately \$1.9 million in FY 2021: about 17% more than FY 2019. For FY 2020 and 2019, system development fee revenue was about \$1.4 million and \$1.6 million, respectively. Interest earned in FY 2021 totaled about \$1,300. Investments remained in safe and liquid secured deposits.

- **Capital Contributions:** Capital contributions totaled approximately \$1.4 million for the year and were comprised of construction costs of developer dedicated facilities. Contributions in aid of construction in the form of dedicated service lines are classified as contributions after net income. Although OWASA receives such contributions annually, these transactions are not cash or cash equivalents and are not included in the budget under the modified accrual method.

## Capital Assets

Each year, OWASA expands or places into service new and renewed capital assets. Capital assets net of depreciation as of the end of FY 2021 was about \$357.8 million, an increase of approximately \$8.1 million from FY 2020. The net increase consisted of additions totaling \$18.3 million and a reduction due to depreciation of \$10.5 million. The asset additions included the rehabilitation or replacement of various water and wastewater mains and improvements to the Jones Ferry Road Water Treatment Plant and the Mason Farm Wastewater Treatment Plant.

The majority of OWASA's capital expenditures over the next 15 years is expected to be invested in replacing and rehabilitating existing assets. System capacity is expected to be sufficient to meet the community's needs well into the future. Please refer to page 23 for additional information on capital assets.

<b>Orange Water and Sewer Authority</b>				
<b>Capital Assets</b>				
(\$ Millions)				
	<u>Fiscal Year Ended</u>			<b>Percentage of</b>
	<u>2021</u>	<u>2020</u>	<u>2019</u>	<b>Change</b>
				<b><u>(2020 to 2021)</u></b>
Land	\$17.6	\$17.6	\$17.6	0.0%
Construction in progress	57.9	58.6	50.1	(1.2)
Water treatment and distribution	106.5	105.9	104.0	0.6
Wastewater collection and treatment	154.1	151.6	145.8	1.7
Fixtures and equipment	<u>21.7</u>	<u>16.0</u>	<u>13.7</u>	35.6
Total	<u>\$357.8</u>	<u>\$349.7</u>	<u>\$331.2</u>	2.3

**Debt Administration**

OWASA policy stipulates that at least 30% of capital improvements projects be funded with cash from operations. At June 30, 2021, 2020 and 2019, OWASA’s outstanding bond and loan debt totaled \$94.2 million, \$80.0 million, and \$66.5 million respectively, net of applicable premiums, discounts and deferred refunding costs. These amounts consist of a low-interest and interest-free loans from the state of North Carolina, and water and wastewater system revenue refunding bonds issued in fiscal years 2014, 2018, 2019, 2020, and 2021. At year end, OWASA owed an accrued debt service liability of approximately \$2.9 million. This amount was credited in full to the trustee restricted bond service account as of June 30, 2021.

OWASA’s credit ratings for its bonds are AAA by Standard & Poor’s, Aa1 by the Moody’s, AA+ by Fitch Ratings. These ratings reflect OWASA’s strong fiscal policy and standards and are considered excellent for an entity that does not have taxing authority.

Please refer to page 25 in the Notes to Financial Statements section for greater detail on OWASA’s outstanding debt obligations.

**Economic Factors**

OWASA’s location in Orange County, North Carolina includes a number of factors that benefit the organization and, thereby, its customers.

- The University of North Carolina at Chapel Hill (UNC) is OWASA’s largest customer and accounts for approximately 19% of total drinking water sales.
- The Carrboro-Chapel Hill economy benefits from the size and strength of UNC and UNC Healthcare: public entities that serve the entire state. The University continues to actively plan and develop new facilities and infrastructure.
- There are no major industries in the service area that are subject to significant changes in economic conditions.
- Orange County’s unemployment rate has historically been better than the state and national average.

OWASA encourages water conservation through public education, voluntary and mandatory water use restrictions, and pricing structures. Reduced water use through conservation provides many benefits to the community including extending the life of OWASA's water supply and system capacity. The organization continues to strive to improve efficiencies and reduce costs to limit rate increases without adversely impacting services levels.

### **FY 2022 Budget Highlights**

OWASA's Board of Directors approved a budget that includes a 5% increase in the rates charged for monthly water and sewer services. The FY 2022 budget for Operating expenses is about 2.1% greater than the original FY 2021 budget. Capital improvement expenditures are budgeted to be approximately \$17.6 million.

Projected operating revenues for FY 2022 assumes little to no impact of the COVID-19 pandemic on water demand in OWASA's service area; water demand for FY 2022 is expected to return to pre-pandemic levels.

### **Requests for Information**

This report is designed to provide an overview of Orange Water and Sewer Authority's finances. Questions concerning any of the information found in this report or requests for additional information may be directed to the Director of Finance and Customer Service, 400 Jones Ferry Road, Carrboro, North Carolina 27510-2001.



## ORANGE WATER AND SEWER AUTHORITY

### STATEMENTS OF NET POSITION PROPRIETARY FUND JUNE 30, 2021 AND 2020

	2021	2020
<b>Assets:</b>		
Current assets:		
Cash and cash equivalents	\$ 7,176,478	\$ 10,251,654
Receivables:		
Trade accounts (net of allowances for uncollectible accounts of approximately \$140,000 for 2021 and \$85,000 for 2020)	4,493,011	3,920,289
Other	767,934	772,973
Inventory, materials, and supplies	1,429,256	1,334,873
Prepaid expenses	61,360	223,725
Restricted cash and cash equivalents:		
Cash and cash equivalents	1,230,921	1,187,201
Cash and cash equivalents, trustee	22,968,338	11,785,167
Total current assets	38,127,298	29,475,882
Non-current assets:		
Restricted cash and cash equivalents	310,538	276,217
Capital assets:		
Non-depreciable	75,529,532	76,207,750
Depreciable	282,277,088	273,476,388
Total capital assets, net of accumulated depreciation	357,806,620	349,684,138
Total non-current assets, net	358,117,158	349,960,355
Total assets	396,244,456	379,436,237
<b>Deferred Outflows of Resources:</b>		
Contributions to pension plan in current fiscal year	963,041	790,230
Pension deferrals	1,612,516	1,198,644
Contributions to OPEB plan in current fiscal year	295,482	295,137
OPEB deferrals	2,788,077	22,066
Deferred charge on refunding	351,007	386,106
Total deferred outflows of resources	6,010,123	2,692,183

*The accompanying notes are an integral part of the financial statements.*

## ORANGE WATER AND SEWER AUTHORITY

### STATEMENTS OF NET POSITION PROPRIETARY FUND JUNE 30, 2021 AND 2020

	2021	2020
<b>Liabilities:</b>		
Current liabilities:		
Payable from current assets:		
Trade and construction contracts payable	2,071,223	4,410,571
Accrued expenses	368,285	309,370
Payable from restricted cash and cash equivalents:		
Accrued interest	819,247	1,107,055
Customer deposits and advances	1,541,459	1,463,418
Current maturity of note payable	797,745	775,655
Current maturities of bonds payable	4,880,080	7,234,478
Current portion of compensated absences	543,784	525,644
Current maturity of capital lease	25,540	-
Total current liabilities	11,047,363	15,826,191
Non-current liabilities:		
Note payable	13,517,981	12,624,847
Bonds payable	74,962,553	59,391,026
Compensated absences	181,261	175,214
Net pension liability	4,542,897	3,324,897
Capital lease	419,534	-
Total OPEB liability	16,637,731	12,876,052
Total non-current liabilities	110,261,957	88,392,036
Total liabilities	121,309,320	104,218,227
<b>Deferred Inflows of Resources:</b>		
Pension deferrals	28,625	39,806
OPEB deferrals	1,406,247	1,710,345
Total deferred inflows of resources	1,434,872	1,750,151
<b>Net Position:</b>		
Net investment in capital assets	263,554,194	270,044,238
Restricted for capital reserve	310,538	276,217
Unrestricted	15,645,655	5,839,587
Total net position	\$ 279,510,387	\$ 276,160,042

*The accompanying notes are an integral part of the financial statements.*

**ORANGE WATER AND SEWER AUTHORITY**

**STATEMENTS OF REVENUES, EXPENSES, AND  
CHANGES IN NET POSITION - PROPRIETARY FUND  
FOR THE YEARS ENDED JUNE 30, 2021 AND 2020**

	<u>2021</u>	<u>2020</u>
<b>Operating Revenues:</b>		
Water	\$ 17,608,186	\$ 17,893,981
Sewer	16,620,662	16,948,606
Service initiation fees	15,810	24,680
Reclaimed water	454,180	480,547
Other	815,983	958,380
Total operating revenues	<u>35,514,821</u>	<u>36,306,194</u>
<b>Operating Expenses:</b>		
Water supply and treatment	4,526,700	4,883,456
Water distribution	4,364,507	4,734,237
Sewer treatment	4,905,226	5,081,371
Sewer collections	1,228,687	1,265,359
General and administrative	6,833,838	7,244,321
Depreciation and amortization	10,476,244	9,780,753
Other post-employment benefits	986,707	602,645
Total operating expenses	<u>33,321,909</u>	<u>33,592,142</u>
Operating income (loss)	<u>2,192,912</u>	<u>2,714,052</u>
<b>Non-Operating Revenues (Expenses):</b>		
System development fees	1,860,926	1,393,871
Investment income, net of fair value of investments adjustment	1,291	63,207
Interest expense	(2,708,475)	(2,565,779)
Amortization of bond and lease expense	946,570	611,927
Gain (Loss) on disposal of capital assets	58,639	56,978
FEMA reimbursement	731	55,042
Costs of issuance	(367,393)	(531,701)
Total non-operating revenues (expenses)	<u>(207,711)</u>	<u>(916,455)</u>

*The accompanying notes are an integral part of the financial statements.*

**ORANGE WATER AND SEWER AUTHORITY**

**STATEMENTS OF REVENUES, EXPENSES, AND  
CHANGES IN NET POSITION - PROPRIETARY FUND  
FOR THE YEARS ENDED JUNE 30, 2021 AND 2020**

	<b>2021</b>	<b>2020</b>
Income (loss) before capital contributions	1,985,201	1,797,597
<b>Capital Contributions:</b>		
Contributions in aid of construction	1,365,144	1,992,762
Change in net position	3,350,345	3,790,359
<b>Net Position:</b>		
Beginning of year - July 1	276,160,042	272,369,683
End of year - June 30	\$ 279,510,387	\$ 276,160,042

*The accompanying notes are an integral part of the financial statements.*

**ORANGE WATER AND SEWER AUTHORITY**

**STATEMENTS OF CASH FLOWS**  
**PROPRIETARY FUND**  
**FOR THE YEARS ENDED JUNE 30, 2021 AND 2020**

	<b>2021</b>	<b>2020</b>
<b>Cash Flows from Operating Activities:</b>		
Receipts from customers	\$ 34,131,155	\$ 35,017,913
Payments to suppliers	(12,750,976)	(12,688,855)
Payments to employees	(11,918,164)	(11,635,507)
Other receipts	894,024	1,059,005
Net cash provided (used) by operating activities	10,356,039	11,752,556
<b>Cash Flows from Capital and Related Financing Activities:</b>		
Acquisition and construction of capital assets	(17,253,574)	(26,283,821)
Proceeds from sale of property, plant, and equipment	58,639	56,978
Costs of issuance	(367,393)	(531,701)
Principal paid on bond maturities and other long-term debt	(7,329,500)	(16,177,407)
Interest paid on bond maturities and other long-term debt	(2,976,291)	(2,495,639)
Customer fees received	2,807,496	2,005,798
Proceeds from issuance of debt	22,888,598	31,256,235
Capital grants and contributions	731	55,042
Net cash provided (used) by capital and related financing activities	(2,171,294)	(12,114,515)
<b>Cash Flows from Investing Activities:</b>		
Interest and dividends on investments	1,291	63,207
Net increase (decrease) in cash and cash equivalents	8,186,036	(298,752)
<b>Cash and Cash Equivalents:</b>		
Beginning of year - July 1	23,500,239	23,798,991
End of year - June 30	\$ 31,686,275	\$ 23,500,239

*The accompanying notes are an integral part of the financial statements.*

**ORANGE WATER AND SEWER AUTHORITY**

**STATEMENTS OF CASH FLOWS  
PROPRIETARY FUND  
FOR THE YEARS ENDED JUNE 30, 2021 AND 2020**

	<u>2021</u>	<u>2020</u>
<b>Reconciliation of Operating Income (Loss) to Net Cash Provided (Used) by Operating Activities:</b>		
Operating income (loss)	\$ 2,192,912	\$ 2,714,052
Adjustments to reconcile operating income (loss) to net cash provided (used) by operating activities:		
Depreciation	10,476,244	9,780,753
Pension (benefit) expense	(172,811)	(134,779)
(Increase) decrease in trade accounts receivable	(572,724)	(508,908)
(Increase) decrease in other receivables	5,039	179,007
(Increase) decrease in inventory	(94,383)	61,313
(Increase) decrease in prepaid expenses	162,365	(40,831)
(Increase) decrease in deferred outflows of resources for OPEB	(2,766,356)	(6,686)
(Increase) decrease in deferred outflows of resources for pensions	(413,872)	480,428
(Increase) decrease in deferred outflows of resources for deferred refunding costs	(946,570)	(611,925)
Increase (decrease) in trade and construction contracts payable	(2,339,348)	(1,104,406)
Increase (decrease) in customer deposits	78,041	100,625
Increase (decrease) accrued expenses	58,915	75,992
Increase (decrease) compensated absences	24,187	102,021
Increase (decrease) in net pension liability	1,218,000	342,390
Increase (decrease) in deferred inflows of resources for pensions	(11,181)	9,316
Increase (decrease) in deferred inflows of resources for OPEB	(304,098)	148,706
Increase (decrease) in other post-employment benefits	3,761,679	165,488
Net cash provided (used) by operating activities	<u>\$ 10,356,039</u>	<u>\$ 11,752,556</u>
<b>Non-Cash Capital and Related Financing Activities:</b>		
Property, plant, and equipment contributed by private developers	<u>\$ 1,365,144</u>	<u>\$ 1,992,762</u>

*The accompanying notes are an integral part of the financial statements.*

# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

### 1. Summary of Significant Accounting Policies

The accounting policies of the Orange Water and Sewer Authority conform to generally accepted accounting principles as they apply to governments. The following is a summary of the more significant accounting policies:

#### A. Reporting Entity

The Orange Water and Sewer Authority (the “Authority”) was created pursuant to Chapter 162A of the North Carolina General Statutes by the Board of Commissioners of Orange County and the Town Council of Chapel Hill and the Board of Aldermen of the Town of Carrboro in June 1975, as a public entity, politic and corporate, for the purpose of acquiring, consolidating, improving, and operating the existing water and sewer systems serving the above governmental jurisdictions and certain contiguous areas. The Authority is a separate governmental unit granted independent authority by the North Carolina General Statutes to allow the Authority’s Board of Directors to set rates, fees, and charges without oversight, supervision, or direction from any other state or local entity or agency.

Because the Town Council of Chapel Hill appoints a majority of the Authority’s Board of Directors and may remove them without cause, the Authority falls within the definition of a “Component Unit” provided in applicable accounting standards. For this reason, the Authority’s financial data is incorporated into the Annual Comprehensive Financial Report of the Town of Chapel Hill.

#### B. Basis of Presentation

The business-type activities are financed in whole or in part by fees charged to external parties. All activities of the Authority are considered business-type activities.

*Fund Financial Statements.* The fund financial statements provide information about the Authority’s funds.

Proprietary fund operating revenues, such as charges for services, result from exchange transactions associated with the principal activity of the fund. Exchange transactions are those in which each party receives and gives up essentially equal values. Non-operating revenues, such as subsidies and investment earnings, result from non-exchange transactions. The Authority has one fund category - proprietary funds.

#### Enterprise Fund

The Enterprise Fund is used to account for those operations that (a) are financed and operated in a manner similar to private business enterprises, where the intent of the governing body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a continuing basis be financed or recovered primarily through user charges; or (b) where the governing body has decided that the periodic determination of revenues earned, expenses incurred and/or net income is appropriate for capital maintenance, public policy, management control, accountability, or other purposes. The Authority operates as a singular enterprise fund.

The Enterprise Fund is considered a major fund for the year ended June 30, 2021.

# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

### C. Measurement Focus and Basis of Accounting

In accordance with North Carolina General Statutes, all funds of the Authority are maintained during the year using the modified accrual basis of accounting.

*Proprietary Fund Financial Statements.* The proprietary fund financial statements are reported using the economic resources measurement focus. The proprietary fund financial statements are reported using the accrual basis of accounting. Revenues are recorded when earned and expenses are recorded at the time liabilities are incurred, regardless of when the related cash flows take place. Proprietary funds distinguish operating revenues and expenses from non-operating items. Operating revenues and expenses generally result from providing services and producing and delivering goods in connection with a proprietary fund's principal ongoing operations. The principal operating revenues of the Authority's Enterprise Fund are charges to customers for sales and services. Operating expenses for enterprise funds include the cost of sales and services, administrative expenses, and depreciation on capital assets. All revenues and expenses not meeting this definition are reported as non-operating revenues and expenses.

### D. Budgetary Data

Annual budgets are adopted on a basis consistent with provisions of the North Carolina Local Government Budget and Fiscal Control Act, which is the modified accrual method of accounting. All annual appropriations lapse at fiscal year-end.

The Authority begins developing its budget in the second quarter of each year and the Board of Directors approves the budget in early June after public hearings are held.

Budgeted revenues are reflected by source and budgeted expenses by department. On a periodic basis, as required by changing conditions, the budgeted amounts are amended. The budgeted amounts shown in the supplemental schedules reflect the governing board's amendments through the fiscal year-end. Expenditures may not legally exceed appropriations at the department level.

### E. Assets, Liabilities, Deferred Outflows/Inflows of Resources, and Fund Equity

#### Deposits and Investments

All deposits of the Authority are made in Board-designated official depositories and are secured as required by G.S. 159-31.

The Authority may designate, as an official depository, any bank or savings association whose principal office is located in North Carolina. Also, the Authority may establish time deposit accounts such as money market accounts and certificates of deposit.

State law [G.S. 159-30(c)] authorizes the Authority to invest in obligations of the United States or obligations fully guaranteed both as to principal and interest by the United States; obligations of the State of North Carolina; bonds and notes of any North Carolina local government or public authority; obligations of certain non-guaranteed federal agencies; certain high quality issues of commercial paper and bankers' acceptances; and the North Carolina Capital Management Trust ("NCCMT").



# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

The Authority's investments with a maturity of more than one year at acquisition and non-money market investments are reported at cost or amortized cost, which approximates their fair value as determined by quoted market prices. The NCCMT Government Portfolio's securities, an SEC-registered 2a-7 government money market fund, is measured at fair market value. Money market investments that have a remaining maturity at the time of purchase of one year or less are reported at amortized cost.

### Cash and Cash Equivalents

The Authority's cash and cash equivalents are considered to be cash on hand, demand deposits, and short-term investments with original maturities of three months or less from the date of acquisition.

### Restricted Assets

Certain proceeds of the Authority's revenue bonds, as well as certain resources set aside for their repayment, are classified as restricted assets on the Statement of Net Position, because they are maintained in separate bank accounts and their use is limited by applicable bond covenants. Customer deposits held by the Authority before any services were supplied are restricted to the service for which the deposits were collected. Capital reserve amounts are restricted for future maintenance and repairs.

<b>Orange Water and Sewer Authority Restricted Cash</b>		
<b>Business-Type Activities:</b>	<b>2021</b>	<b>2020</b>
Bond service	\$ 22,968,338	\$ 11,785,167
Capital reserve	310,538	276,217
Customer deposits	1,230,921	1,187,201
Total business-type activities	<u>\$ 24,509,797</u>	<u>\$ 13,248,585</u>

### Receivables

All trade receivables are shown net of an allowance for uncollectibles. Trade receivables are determined to be uncollectible based on collection history for similar customers. The Authority grants credit to residential, business and industrial customers, substantially all of whom are local to the Orange County, North Carolina, area.

### Allowance for Doubtful Accounts

The Authority historically experiences uncollectible accounts, and accounts receivable is shown net of an allowance for doubtful accounts. This amount is estimated by analyzing the percentage of receivables that were written off in prior years. The allowance was \$140,000 at June 30, 2021 and \$85,000 at June 30, 2020.

# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

### Inventory and Prepaid Items

Materials and supplies are valued at average cost and are held for subsequent use. The cost of these inventories is expensed when consumed rather than when purchased.

Certain payments to vendors reflect costs applicable to future accounting periods and are recorded as prepaid items in the Statement of Net Position and expensed as the items are used.

### Capital Assets

Capital assets, which include property, plant, equipment, and infrastructure assets, are reported in the financial statements. Capital assets are defined by the Authority as assets with an initial, individual cost of more than \$5,000 and an estimated useful life in excess of one year. Such assets are recorded at historical cost if purchased or constructed. Donated capital assets received prior to June 30, 2015 are recorded at their estimated fair market value at the date of donation. Donated capital assets received after June 30, 2015 are recorded at acquisition value. All other purchased or constructed capital assets are reported at cost or estimated historical cost. The costs of normal maintenance and repairs that do not add to the value of the asset or materially extend assets' lives are not capitalized.

Major outlays for capital assets and improvements are capitalized as projects are constructed. Interest incurred during the construction phase of capital assets is included as part of the capitalized value of the assets constructed.

Property, plant, and equipment are depreciated using the straight-line method by groups or classes of property over the following expected service lives:

	<u>Years</u>
Water treatment and distribution	20-60
Sewer collection and treatment	40-60
Fixtures and equipment	5-20

Assets under capitalized lease obligations are recorded at the discounted present value of the future minimum lease payments at the inception of the respective leases. The amounts capitalized are being amortized by the straight-line method over the lesser of the term of the lease or the estimated life of the asset. Amortization of these assets is included in depreciation expense.

### Deferred Outflows/Inflows of Resources

In addition to assets, the Statement of Net Position will sometimes report a separate section for deferred outflows of resources. This separate financial statement element, *Deferred Outflows of Resources*, represents a consumption of net position that applies to a future period and so will not be recognized as an expense or expenditure until then. The Authority has several items that meet these criteria, an unamortized loss on bond defeasance for water and sewer refunding bonds, pension related deferrals, contributions made to the pension plan in the current fiscal year, contributions made to the OPEB plan in the current fiscal year, and OPEB related deferrals. In

# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

addition to liabilities, the Statement of Net Position will sometimes report a separate section for deferred inflows of resources. This separate financial statement element, *Deferred Inflows of Resources*, represents an acquisition of net position that applies to a future period and so will not be recognized as revenue until then. The Authority has two items that meets these criteria in the current year – pension related deferrals and OPEB related deferrals.

### **Compensated Absences**

It is the Authority's policy to permit employees to accumulate earned, but unused, vacation and sick pay benefits. There is no liability for unpaid accumulated sick leave since the Authority does not have a policy to pay any amounts when employees separate from service with the Authority. All vacation pay is accrued when incurred in the financial statements. At June 30, 2021 and 2020, the Authority had recorded a liability for accrued vacation and the salary-related payments of \$725,045 and \$700,858, respectively.

### **Long-Term Debt**

Long-term debt is reported net of applicable bond premium or discount, which are deferred and amortized over the life of the bonds using the effective interest method.

### **Net Position**

Net position in the proprietary fund financial statements is classified as net investment in capital assets; restricted; and unrestricted. Restricted net position represents constraints on resources that are either externally imposed by creditors, grantors, contributors, or laws or regulations of other governments or imposed by law through state statute.

Net position classified as net investment in capital assets, consists of capital assets, net of accumulated depreciation, and reduced by the outstanding balances of any bonds, mortgages, notes, or other borrowings that are attributable to the acquisition, construction, or improvement of those assets.

*Restricted for Capital Reserve* – represents a portion of net position that is restricted by revenue source for future maintenance and capital.

Unrestricted net position consists of net position that does not meet the definition of “restricted” or “net investment in capital assets.”

## **F. Operating Revenues and Expenses**

Operating revenues and expenses generally result from providing services in connection with the Authority's principal ongoing operations, which is the sale of water and treatment of wastewater for its customers. The Authority also recognizes as operating revenue the portion of tap fees intended to recover the cost of connecting new customers to the system. Operating expense for the Authority includes the cost of services, administrative expenses, and depreciation on capital assets. All revenues and expenses not meeting this definition are reported as non-operating revenues and expenses.

# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

### G. Accounting Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amount of assets and liabilities and disclosures of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the period. Actual results could differ from these estimates.

### H. Defined Benefit Cost-Sharing Pension Plans

For purposes of measuring the net pension liability, deferred outflows of resources and deferred inflows of resources related to pensions, and pension expense, information about the fiduciary net positions of the Local Governmental Employees' Retirement System (LGERS) and additions to/deductions from LGERS fiduciary net positions have been determined on the same basis as they are reported by LGERS. For this purpose, plan member contributions are recognized in the period in which the contributions are due. The Authority's employer contributions are recognized when due and the Authority has a legal requirement to provide the contributions. Benefits and refunds are recognized when due and payable in accordance with the terms of the state-administered defined benefit pension plans. Investments are reported at fair value.

## 2. Detail Notes On All Funds

### Assets

#### Deposits

All of the Authority's deposits are either insured or collateralized by using one of two methods. Under the Dedicated Method, all deposits exceeding the federal depository insurance coverage level are collateralized with securities held by the Authority's agents in the unit's name. Under the Pooling Method, which is a collateral pool, all uninsured deposits are collateralized with securities held by the State Treasurer's agent in the name of the State Treasurer. Since the State Treasurer is acting in a fiduciary capacity for the Authority, these deposits are considered to be held by their agents in the Authority's name. The amount of the pledged collateral is based on an approved averaging method for non-interest-bearing deposits and the actual current balance for interest-bearing deposits. Depositories using the Pooling Method report to the State Treasurer the adequacy of their pooled collateral covering uninsured deposits. The State Treasurer does not confirm this information with the Authority, or with the escrow agent. Because of the inability to measure the exact amount of collateral pledged for the Authority, under the Pooling Method, the potential exists for undercollateralization, and this risk may increase in periods of high cash flows. However, the State Treasurer of North Carolina enforces strict standards of financial stability for each depository that collateralizes public deposits under the Pooling Method. The Authority has no policy regarding custodial credit risk for deposits but relies on the State Treasurer to enforce standards for minimum capitalization for all pooling method financial institutions and to monitor them for compliance. The Authority complies with the provisions of G.S. 159-31 when designating official depositories and verifying that deposits are properly secured.

# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

At June 30, 2021, the Authority's deposits had a carrying amount of \$8,642,924 and a bank balance of \$9,108,348. Of the bank balance, \$250,000 was covered by federal depository insurance, and \$8,851,348 in deposits was covered by collateral held under the Pooling Method. The Authority had cash on hand of \$1,700 at June 30, 2021.

At June 30, 2020, the Authority's deposits had a carrying amount of \$11,641,882 and a bank balance of \$11,533,492. Of the bank balance, \$250,000 was covered by federal depository insurance, and \$11,283,492 in interest-bearing deposits was covered by collateral held under the Pooling Method. The Authority had cash on hand of \$2,700 at June 30, 2020.

### Cash Equivalents

At June 30, 2021 and 2020, the Authority's cash equivalents balances were as follows:

	<u>2021</u>	<u>2020</u>
The North Carolina Capital Management Trust, government portfolio	<u>\$ 23,041,651</u>	<u>\$ 11,855,657</u>

*Interest Rate Risk.* The Authority does not have a formal investment policy that limits investment maturities as a means of managing its exposure to fair value losses arising from increasing interest rates.

*Credit Risk.* The Authority's policy regarding credit risk is that funds shall not be exposed to undue or unreasonable risk. State law limits investments in commercial paper to the top rating issued by nationally recognized statistical rating organizations ("NRSROs"). The Authority's investment in the NCCMT government portfolio carried a credit rating of AAAm by Standard & Poor's and AAA-mf by Moody's Investors Service as of June 30, 2021.

### Receivables

Receivables, net of allowances for uncollectible accounts, at June 30, 2021 and 2020 were as follows:

	<u>2021</u>	<u>2020</u>
Utility accounts receivable	\$ 4,493,011	\$ 3,920,289
Other receivable	<u>767,934</u>	<u>772,973</u>
Total receivables, net	<u>\$ 5,260,945</u>	<u>\$ 4,693,262</u>

# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

### Capital Assets

A summary of changes in the Authority's capital assets follows:

	<b>Balance</b>	<b>Increases</b>	<b>Decreases</b>	<b>Transfers</b>	<b>Balance</b>
	<b>July 1, 2020</b>	<b>Increases</b>	<b>Decreases</b>	<b>Transfers</b>	<b>June 30, 2021</b>
<b>Non-Depreciable Assets:</b>					
Land	\$ 17,605,354	\$ -	\$ -	\$ -	\$ 17,605,354
Construction in progress	<u>58,602,396</u>	<u>15,929,960</u>	<u>-</u>	<u>(16,608,178)</u>	<u>57,924,178</u>
Total non-depreciable assets	<u>76,207,750</u>	<u>15,929,960</u>	<u>-</u>	<u>(16,608,178)</u>	<u>75,529,532</u>
<b>Depreciable Assets:</b>					
Water treatment and distribution	181,395,980	1,237,249	-	3,181,020	185,814,249
Sewer collection and treatment	232,692,633	381,921	-	6,927,604	240,002,158
Fixtures and equipment	<u>52,687,128</u>	<u>1,069,588</u>	<u>(329,522)</u>	<u>6,499,554</u>	<u>59,926,748</u>
Total depreciable assets	<u>466,775,741</u>	<u>2,688,758</u>	<u>(329,522)</u>	<u>16,608,178</u>	<u>485,743,155</u>
<b>Less Accumulated Depreciation:</b>					
Water treatment and distribution	75,453,234	3,855,479	-	-	79,308,713
Sewer collection and treatment	81,140,834	4,809,815	-	-	85,950,649
Fixtures and equipment	<u>36,705,285</u>	<u>1,810,950</u>	<u>(309,530)</u>	<u>-</u>	<u>38,206,705</u>
Total accumulated depreciation	<u>193,299,353</u>	<u>\$ 10,476,244</u>	<u>\$ (309,530)</u>	<u>\$ -</u>	<u>203,466,067</u>
Total depreciable assets	<u>273,476,388</u>				<u>282,277,088</u>
Capital assets, net	<u>\$ 349,684,138</u>				<u>\$ 357,806,620</u>

# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

	<u>Balance</u>	<u>Increases</u>	<u>Decreases</u>	<u>Transfers</u>	<u>Balance</u>
	<u>July 1, 2019</u>				<u>June 30, 2020</u>
<b>Non-Depreciable Assets:</b>					
Land	\$ 17,605,354	\$ -	\$ -	\$ -	\$ 17,605,354
Construction in progress	<u>50,113,475</u>	<u>25,676,779</u>	<u>(563)</u>	<u>(17,187,295)</u>	<u>58,602,396</u>
Total non-depreciable assets	<u>67,718,829</u>	<u>25,676,779</u>	<u>(563)</u>	<u>(17,187,295)</u>	<u>76,207,750</u>
<b>Depreciable Assets:</b>					
Water treatment and distribution	175,747,356	1,348,663	-	4,299,961	181,395,980
Sewer collection and treatment	222,398,717	699,342	-	9,594,574	232,692,633
Fixtures and equipment	<u>48,961,413</u>	<u>551,799</u>	<u>(118,844)</u>	<u>3,292,760</u>	<u>52,687,128</u>
Total depreciable assets	<u>447,107,486</u>	<u>2,599,804</u>	<u>(118,844)</u>	<u>17,187,295</u>	<u>466,775,741</u>
<b>Less Accumulated Depreciation:</b>					
Water treatment and distribution	71,714,344	3,738,890	-	-	75,453,234
Sewer collection and treatment	76,576,633	4,564,201	-	-	81,140,834
Fixtures and equipment	<u>35,302,006</u>	<u>1,477,662</u>	<u>(74,383)</u>	<u>-</u>	<u>36,705,285</u>
Total accumulated depreciation	<u>183,592,983</u>	<u>\$ 9,780,753</u>	<u>\$ (74,383)</u>	<u>\$ -</u>	<u>193,299,353</u>
Total depreciable assets	<u>263,514,503</u>				<u>273,476,388</u>
Capital assets, net	<u>\$ 331,233,332</u>				<u>\$ 349,684,138</u>

### Net Investment in Capital Assets

The total net investment in capital assets is composed of the following elements:

	<u>2021</u>	<u>2020</u>
Capital assets	\$ 357,806,620	\$ 349,684,138
Total debt, gross	(94,603,433)	(80,026,006)
Deferred charge related to debt	<u>351,007</u>	<u>386,106</u>
Net investment in capital assets	<u>\$ 263,554,194</u>	<u>\$ 270,044,238</u>

# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

### Long-Term Debt

Long-term debt as of June 30, 2021 and 2020 consists of the following:

	2021	2020
<b>Revenue Bonds:</b>		
Revenue bonds payable, Series 2020 Revenue Bonds, in the amount of \$9,500,000, issued April 7, 2020, with coupon rates of 5.0%, final maturity June 2026; net of unamortized premium of \$821,835 at June 30, 2021	\$ 7,720,000	\$ 9,500,000
Revenue bonds payable, Series 2019 Revenue Bonds, in the amount of \$16,640,000, issued November 15, 2019, with coupon rates of 3.0% and 5.0%, final maturity June 2044; net of unamortized premium of \$1,877,575 at June 30, 2021	16,250,000	16,640,000
Revenue bonds payable, Series 2018 Refunding Revenue Serial bonds, in the amount of \$18,075,000, issued April 10, 2018, with a coupon rate of 2.3%, final maturity July 2029, net of unamortized premium of \$1,309,010 at June 30, 2021	18,075,000	18,075,000
Revenue bonds payable, Series 2015 Refunding Revenue Serial bonds, in the amount of \$8,995,000, issued July 1, 2015, with a coupon rate of 4.5%, final maturity July 2031.	-	1,420,000
Revenue bonds payable, Series 2014 Refunding Revenue Serial bonds, in the amount of \$15,695,000, issued December 18, 2014, with coupon rates of 3.0% and 5.0%, final maturity July 2031, net of unamortized premium of \$812,604 at June 30, 2021	12,525,000	13,375,000
Revenue bonds payable, Series 2021 Water and Sewer System Revenue Bonds, in the amount of \$18,840,000, issued April 8, 2021, with coupon rates of 5.0%, final maturity June 2046; net of unamortized premium of \$1,611,608 at June 30, 2021	18,840,000	-
Revenue bonds payable, Series 2010 Refunding Revenue Serial bonds, in the amount of \$21,645,000, issued September 30, 2010, with coupon rates of 3.0% and 5.0%, final maturity July 2026.	-	1,835,000
	<b>\$ 73,410,000</b>	<b>\$ 60,845,000</b>

The revenue bonds are secured by pledged water and sewer customer revenues, net of specified operating expenses to repay revenue bonds. In the event of a default, the Authority agrees to pay to the purchaser, on demand, interest on any and all amounts due and owing by the Authority under the related agreements.



# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

	2021	2020
<b>Note Payable Direct Borrowing:</b>		
Note payable to NCDEQ in the amount of \$6,560,000 issued October 4, 2014, interest at 0%, Federal Revolving loan, beginning May 2015, payable in annual installments of \$328,000, with a final payment due in May 2034	\$ 4,264,000	\$ 4,592,000
Note payable to NCDEQ in the amount of \$1,056,000 issued July 28, 2018, interest at 1.53%, DWSRF loan, beginning May 2019, payable in annual installments of \$52,800, with a final payment due in May 2038	840,275	889,703
Note payable to NCDEQ in the amount of \$3,028,700 issued June 17th, 2019, interest at 1.53%, DWSRF loan, beginning November 2020, due in annual installments, varying, with a final payment due in May 2040	1,926,566	2,078,001
Note payable to NCDEQ in the amount of \$1,658,000 issued September 12, 2017, interest at 1.53%, State Reserve Loan, beginning May 2021, due in annual installments, varying, with a final payment due in May 2040	274,559	-
Note payable to NCDEQ in the amount of \$1,525,000 issued August 1, 2017, interest at 1.53%, State Reserve Loan, beginning November 2020, due in annual installments, varying, with a final payment due in May 2040	829,436	-
Note payable to NCDEQ in the amount of \$670,156 issued April 7, 2020, interest at 1.42%, DWSRF loan, beginning May 2021, due in annual installments, varying, with a final payment due in May 2040	636,648	-
Note payable to NCDEQ in the amount of \$6,132,000 issued June 3, 2019, interest at 1.53%, Federal Revolving loan, beginning May 2020, payable in annual installments of \$266,429, with a final payment due in May 2039	4,795,727	5,062,157
Note payable to NCDEQ in the amount of \$1,071,000 issued July 27, 2019, interest at 1.53%, Federal Revolving loan, beginning May 2020, payable in annual installments of \$53,550, with a final payment due in May 2039	748,515	778,641
	\$ 14,315,726	\$ 13,400,502

## ORANGE WATER AND SEWER AUTHORITY

### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

The Authority's outstanding notes from direct borrowings related to business-type activities is not secured by a pledge of the faith and credit of the State of North Carolina or of the Authority but is payable solely from the revenues of the project or benefited systems, or other available funds. The note contains provisions that an event of default would result in (1) any other monies due to the Authority from the state may be withheld by the state and applied to the payment of the outstanding note.

Bonds payable maturities are as follows:

<b>Year Ending</b>	<b>Amortization of Premiums and Deferred Refunding</b>			
<b>June 30</b>	<b>Maturities</b>	<b>Losses</b>	<b>Total</b>	<b>Interest</b>
2022	\$ 3,775,000	\$ 1,069,979	\$ 4,844,979	\$ 2,881,257
2023	5,005,000	939,784	5,944,784	2,663,512
2024	5,320,000	812,507	6,132,507	2,408,513
2025	5,645,000	673,572	6,318,572	2,137,638
2026	5,980,000	522,601	6,502,601	1,850,512
2027-2031	21,775,000	1,396,735	23,171,735	6,016,539
2032-2036	9,090,000	429,962	9,519,962	2,851,887
2037-2041	8,900,000	176,900	9,076,900	1,632,388
2042-2045	7,920,000	59,589	7,979,589	492,080
Total	<u>\$ 73,410,000</u>	<u>\$ 6,081,629</u>	<u>\$79,491,629</u>	<u>\$22,934,326</u>

Notes payable – direct borrowing maturities are as follows:

<b>Year Ending</b>			
<b>June 30</b>	<b>Maturities</b>	<b>Interest</b>	<b>Total</b>
2022	\$ 797,745	\$ 160,261	\$ 958,006
2023	848,649	160,907	1,009,556
2024	851,761	152,231	1,003,992
2025	854,921	143,495	998,416
2026	858,128	134,696	992,824
2027-2031	4,340,496	539,255	4,879,751
2032-2036	3,772,326	309,466	4,081,792
2037-2040	1,991,700	77,366	2,069,066
Total	<u>\$ 14,315,726</u>	<u>\$ 1,677,677</u>	<u>\$ 15,993,403</u>

#### **Advance Refunding**

On December 18, 2014, the Authority issued \$15,695,000 of Series 2014 revenue bonds to provide resources that were placed in an irrevocable trust to be used for all future debt service payments of \$16,430,000 of Series 2006 revenue bonds. As a result, the refunded bonds are considered to be defeased and the liability has been removed from the Statement of Net Position. The reacquisition

# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

price exceeded the net carrying amount of the old debt by \$561,010. This amount is being amortized over the life of the refunded debt, which is shorter than the life of the new debt issued. This advanced refunding was undertaken to reduce total debt service payments over the next 17 years by \$1,984,121 and resulted in an economic gain of \$1,596,310. On June 30, 2021, \$13,075,000 of bonds outstanding are considered defeased.

### Advance Refunding

On April 7, 2020, the Authority issued \$9,500,000 of Series 2020 revenue bonds to provide resources that were placed in an irrevocable trust to be used for all future debt service payments of \$10,350,000 of Series 2010 revenue bonds. As a result, the refunded bonds are considered to be defeased and the liability has been removed from the Statement of Net Position. This advanced refunding was undertaken to reduce total debt service payments over the next 6 years by \$1,091,381 and resulted in an economic gain of \$1,024,076. On June 30, 2021, \$10,350,000 of bonds outstanding are considered defeased.

### Capital Leases

The Authority has entered into agreements to lease certain equipment. The lease agreements qualify as capital leases for accounting purposes and, therefore, have been recorded at the present value of the future minimum lease payments as of the date of their inception.

<u>Class of Property</u>	<u>Cost</u>	<u>Accumulated Depreciation</u>	<u>Net Book Value</u>
Equipment	\$ 458,074	\$ 6,919	\$ 451,155

For the Authority, the future minimum lease obligations and the net present value of these minimum lease payments as of June 30, 2021 were as follows:

	<u>Year Ending June 30</u>	<u>Business-Type Activities</u>
	2022	\$ 25,540
	2023	25,540
	2024	25,540
	2025	25,540
	2026	25,540
Thereafter		<u>497,800</u>
Total minimum lease payments		625,500
Less amount representing interest		<u>180,426</u>
Present value of the minimum lease payments		<u>\$ 445,074</u>

## ORANGE WATER AND SEWER AUTHORITY

### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

Long-term liability activity for the years ended June 30, 2021 and 2020 is as follows:

	<b>Balance</b>			<b>Balance</b>	<b>Due Within</b>
	<b>July 1, 2020</b>	<b>Additions</b>	<b>Retirements</b>	<b>June 30, 2021</b>	<b>One Year</b>
Direct borrowings	\$ 13,400,502	\$ 1,956,724	\$ 1,041,500	\$ 14,315,726	\$ 797,745
<b>Bonds Payable:</b>					
Revenue bonds	60,845,000	18,840,000	6,275,000	73,410,000	3,775,000
For issuance premiums	5,780,504	1,633,800	981,671	6,432,633	1,105,080
Capitalized leases	-	458,074	13,000	445,074	25,540
Compensated absences	700,858	423,947	399,760	725,045	543,784
Net pension liability (LGERS)	3,324,897	1,218,000	-	4,542,897	-
Total OPEB liability	<u>12,876,052</u>	<u>3,761,679</u>	<u>-</u>	<u>16,637,731</u>	<u>-</u>
Total	<u>\$ 96,927,813</u>	<u>\$ 28,292,224</u>	<u>\$ 8,710,931</u>	<u>\$ 116,509,106</u>	<u>\$ 6,247,149</u>

	<b>Balance</b>			<b>Balance</b>	<b>Due Within</b>
	<b>July 1, 2019</b>	<b>Additions</b>	<b>Retirements</b>	<b>June 30, 2020</b>	<b>One Year</b>
Direct borrowings	\$ 12,244,218	\$ 1,853,691	\$ 697,407	\$ 13,400,502	\$ 775,655
<b>Bonds Payable:</b>					
Revenue bonds	50,185,000	26,140,000	15,480,000	60,845,000	6,275,000
For issuance premiums	4,070,989	3,262,544	1,553,029	5,780,504	959,478
Compensated absences	598,837	544,642	442,621	700,858	525,644
Net pension liability (LGERS)	2,982,507	342,390	-	3,324,897	-
Total OPEB liability	<u>12,710,564</u>	<u>165,488</u>	<u>-</u>	<u>12,876,052</u>	<u>-</u>
Total	<u>\$ 82,792,115</u>	<u>\$ 32,308,755</u>	<u>\$ 18,173,057</u>	<u>\$ 96,927,813</u>	<u>\$ 8,535,777</u>

The Authority has pledged future water and sewer customer revenues, net of specified operating expenses, to repay \$73,410,000 in revenue bonds issued in 2010, 2014, 2015, 2018, 2019, 2020 and 2021. Proceeds from the bonds were used for rehabilitation or expansion of the Authority's water and sewer systems. Annual principal and interest payments are expected to require less than 23% of net revenues. Principal and interest on the bonds are payable through 2046, solely from the water and sewer customer net revenues. The total principal and interest remaining to be paid on the bonds is \$96,344,326. Principal and interest paid in the years ended June 30, 2021 and 2020 were \$9,119,242 and \$7,566,596, respectively, and total customer net revenues for the years ended June 30, 2021 and 2020 were \$35,514,821 and \$36,306,194, respectively. There is no unused line of credit.

The Authority is in compliance with the covenants to rates, fees, rentals, and charges in the bond order, authorizing the issuance of the Water and Sewer Revenue bonds, Series 2010, 2014, 2015, 2018, 2019, and 2020. The bond order requires the debt service coverage ratio to be no less than 120% of the debt service requirements for parity indebtedness.

# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

The debt service coverage ratio calculation for the year ended June 30, 2021 is as follows:

Operating revenues and charges for services	\$ 35,514,821
Operating expenses*	<u>21,858,958</u>
Income available for debt service	<u>\$ 13,655,863</u>
Debt service, principal and interest paid	<u>\$ 9,119,242</u>
Debt service coverage ratio for parity debt	<u>150%</u>

\*Per rate covenants, this does not include depreciation, amortization, interest expense, or OPEB.

### 3. Pension Plan Obligations

#### Local Governmental Employees' Retirement System

*Plan Description.* The Authority is a participating employer in the state-wide Local Governmental Employees' Retirement System (LGERS), a cost-sharing, multiple-employer defined benefit pension plan administered by the State of North Carolina. LGERS membership is comprised of general employees and local law enforcement officers (LEOs) of participating local governmental entities. Article 3 of G.S. Chapter 128 assigns the authority to establish and amend benefit provisions to the North Carolina General Assembly. Management of the plan is vested in the LGERS Board of Trustees, which consists of 13 members – nine appointed by the Governor, one appointed by the State Senate, one appointed by the State House of Representatives, and the State Treasurer and State Superintendent, who serve as ex-officio members. The LGERS is included in the Annual Comprehensive Financial Report (ACFR) for the State of North Carolina. The state's ACFR includes financial statements and required supplementary information for LGERS. That report may be obtained by writing to the Office of the State Controller, 1410 Mail Service Center, Raleigh, North Carolina 27699-1410, by calling (919) 981-5454, or at [www.osc.nc.gov](http://www.osc.nc.gov).

*Benefits Provided.* LGERS provides retirement and survivor benefits. Retirement benefits are determined as 1.85% of the member's average final compensation times the member's years of creditable service. A member's average final compensation is calculated as the average of a member's four highest consecutive years of compensation. Plan members are eligible to retire with full retirement benefits at age 65 with five years of creditable service, at age 60 with 25 years of creditable service, or at any age with 30 years of creditable service. Plan members are eligible to retire with partial retirement benefits at age 50 with 20 years of creditable service or at age 60 with five years of creditable service (age 55 for firefighters). Survivor benefits are available to eligible beneficiaries of members who die while in active service or within 180 days of their last day of service and who have either completed 20 years of creditable service regardless of age (15 years of creditable service for firefighters and rescue squad members who are killed in the line of duty) or have completed five years of service and have reached age 60. Eligible beneficiaries may elect to receive a monthly Survivor's Alternate Benefit for life or a return of the member's contributions. The plan does not provide for automatic post-retirement benefit increases. Increases are contingent upon actuarial gains of the plan.

# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

LGERS plan members who are LEOs are eligible to retire with full retirement benefits at age 55 with five years of creditable service as an officer, or at any age with 30 years of creditable service. LEO plan members are eligible to retire with partial retirement benefits at age 50 with 15 years of creditable service as an officer. Survivor benefits are available to eligible beneficiaries of LEO members who die while in active service or within 180 days of their last day of service and who also have either completed 20 years of creditable service regardless of age, or have completed 15 years of service as a LEO and have reached age 50, or have completed five years of creditable service as a LEO and have reached age 55, or have completed 15 years of creditable service as a LEO if killed in the line of duty. Eligible beneficiaries may elect to receive a monthly Survivor's Alternate Benefit for life or a return of the member's contributions.

*Contributions.* Contribution provisions are established by General Statute 128-30 and may be amended only by the North Carolina General Assembly. Authority employees are required to contribute 6% of their compensation. Employer contributions are actuarially determined and set annually by the LGERS Board of Trustees. The Authority's contractually required contribution rate for the year ended June 30, 2021, was 10.19% of compensation for general employees, actuarially determined as an amount that, when combined with employee contributions, is expected to finance the costs of benefits earned by employees during the year. Contributions to the pension plan from the Authority were \$963,041, for the year ended June 30, 2021.

*Refunds of Contributions* – Authority employees who have terminated service as a contributing member of LGERS, may file an application for a refund of their contributions. By state law, refunds to members with at least five years of service include 4% interest. State law requires a 60-day waiting period after service termination before the refund may be paid. The acceptance of a refund payment cancels the individual's right to employer contributions, or any other benefit provided by LGERS.

### **Pension Liabilities, Pension Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions**

At June 30, 2021, the Authority reported a liability of \$4,542,897 for its proportionate share of the net pension liability. The net pension liability was measured as of June 30, 2020. The total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of December 31, 2019. The total pension liability was then rolled forward to the measurement date of June 30, 2020 utilizing update procedures incorporating the actuarial assumptions. The Authority's proportion of the net pension liability was based on a projection of the Authority's long-term share of future payroll covered by the pension plan, relative to the projected future payroll covered by the pension plan of all participating LGERS employers, actuarially determined. At June 30, 2021, the Authority's proportion was 0.12713% (measured as of June 30, 2020), which was an increase of 0.00538% from its proportion as of June 30, 2020 (measured as of June 30, 2019).

# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

For the year ended June 30, 2021, the Authority recognized pension expense of \$1,583,177. At June 30, 2021, the Authority reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	<b>Deferred Outflows of Resources</b>	<b>Deferred Inflows of Resources</b>
Differences between expected and actual experience	\$ 573,688	\$ -
Changes of assumptions	338,081	-
Net difference between projected and actual earnings on pension plan investments	639,291	-
Changes in proportion and differences between employer contributions and proportionate share of contributions	61,456	28,625
Employer contributions subsequent to the measurement date	963,041	-
Total	\$ 2,575,557	\$ 28,625

\$963,041 reported as deferred outflows of resources related to pensions resulting from Authority contributions subsequent to the measurement date will be recognized as a decrease of the net pension liability in the year ending June 30, 2022. Other amounts reported as deferred inflows and outflows of resources related to pensions will be recognized in pension expense as follows:

<b>Year Ending June 30</b>	<b>Amount</b>
2022	\$ 446,892
2023	592,554
2024	355,246
2025	189,199
Total	\$ 1,583,891

*Actuarial Assumptions.* The total pension liability in the December 31, 2019 actuarial valuation was determined using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	3.0 percent
Salary increases	3.50 to 8.10 percent, including inflation and productivity factor
Investment rate of return	7.00 percent, net of pension plan investment expense, including inflation

# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

The plan currently uses mortality tables that vary by age, gender, employee group (i.e. general, law enforcement officer) and health status (i.e. disabled and healthy). The current mortality rates are based on published tables and based on studies that cover significant portions of the U.S. population. The mortality rates also contain a provision to reflect future mortality improvements.

The actuarial assumptions used in the December 31, 2019 valuation were based on the results of an actuarial experience study as of December 31, 2014.

Future ad hoc cost of living adjustment amounts are not considered to be substantively automatic and are, therefore, not included in the measurement.

The projected long-term investment returns and inflation assumptions are developed through review of current and historical capital markets data, sell-side investment research, consultant whitepapers, and historical performance of investment strategies. Fixed income return projections reflect current yields across the U.S. Treasury yield curve and market expectations of forward yields projected and interpolated for multiple tenors and over multiple year horizons. Global public equity return projections are established through analysis of the equity risk premium and the fixed income return projections.

Other asset categories and strategies' return projections reflect the foregoing and historical data analysis. These projections are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target allocation and best estimates of arithmetic real rates of return for each major asset class as of June 30, 2020 are summarized in the following table:

<u>Asset Class</u>	<u>Target Allocation</u>	<u>Long-Term Expected Real Rate of Return</u>
Fixed income	29.0%	1.4%
Global equity	42.0%	5.3%
Real estate	8.0%	4.3%
Alternatives	8.0%	8.9%
Credit	7.0%	6.0%
Inflation protection	<u>6.0%</u>	4.0%
Total	<u>100%</u>	

The information above is based on 30-year expectations developed with the consulting actuary for the 2020 asset, liability, and investment policy study for the North Carolina Retirement Systems, including LGERS. The long-term nominal rates of return underlying the real rates of return are arithmetic annualized figures. The real rates of return are calculated from nominal rates by multiplicatively subtracting a long-term inflation assumption of 3.00%. All rates of return and inflation are annualized.

*Discount Rate.* The discount rate used to measure the total pension liability was 7.00%. The projection of cash flows used to determine the discount rate assumed that contributions from plan members will be made at the current contribution rate and that contributions from employers will be made at statutorily required rates, actuarially determined. Based on these assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of the



# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

*Sensitivity of the Authority's Proportionate Share of the Net Pension Liability (Asset) to Changes in the Discount Rate.* The following presents the Authority's proportionate share of the net pension liability (asset) calculated using the discount rate of 7.00 percent, as well as what the Authority's proportionate share of the net pension asset or net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.00 percent) or 1-percentage-point higher (8.00 percent) than the current rate:

	<b>1% Decrease</b>	<b>Current</b>	<b>1% Increase</b>
	<b>(6.00%)</b>	<b>Discount</b>	<b>(8.00%)</b>
	<u>          </u>	<u>Rate (7.00%)</u>	<u>          </u>
Authority's proportionate share of the net pension liability (asset)	<u>\$ 9,217,042</u>	<u>\$ 4,542,897</u>	<u>\$ 658,353</u>

*Pension Plan Fiduciary Net Position.* Detailed information about the pension plan's fiduciary net position is available in the separately issued Annual Comprehensive Financial Report (ACFR) for the State of North Carolina.

### **Other Post-Employment Benefits (OPEB)**

*Plan Description.* The Authority administers a single-employer, defined benefit plan (the OPEB plan) that provides health and life insurance benefits to eligible retirees. The Authority has the authority to establish and amend the benefit terms and financing requirements. No assets are accumulated in a trust that meets the criteria in Paragraph 4 of GASB Statement No. 75.

*Benefits Provided.* If hired prior to September 1, 2019, an employee who retires with 30 or more years of service, or is at least age 60 with at least 10 years of service may continue in the Authority's group health plan until death. Eligible retirees are also provided life insurance coverage of \$5,000. Retiree cost sharing is as follows: For retirees age 60 with 10 to 15 years of service, the retiree pays 50% of the retiree premium. For retirees age 60 with 15 to 20 years of service, the retiree pays 25% of the retiree premium. For retirees age 60 with 20 or more years of service, the retiree pays 0% of the retiree premium. There is no spousal coverage provided. The Authority may amend the benefit provisions at any time. Coverage for all retirees who are eligible for Medicare will be transferred to a Medicare Supplemental plan after qualifying for Medicare. A separate stand-alone report is not issued.

If hired after September 1, 2019, employees are required to contribute to a Retirement Health Savings (RHS) account. Employees will contribute 2% each pay period up to \$1,000 per plan year. The Authority will contribute \$35 per pay period up to \$910 per year. The employer contribution and the employee \$1,000 per plan year will increase annually by the Board approved Cost of Labor Adjustment.

# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

All active full-time employees are eligible for membership. At June 30, 2020, the plan membership consisted of:

<b>Members</b>	
Retirees and dependents receiving benefits	43
Active members	121
Total	164

### **Total OPEB Liability**

The Authority's total OPEB liability of \$16,637,731 was measured as of June 30, 2020 and was determined by an actuarial valuation as of June 30, 2019.

*Actuarial Assumptions and Other Inputs.* The total OPEB liability in the June 30, 2019 actuarial valuation was determined using the following actuarial assumptions and other inputs, applied to all periods included in the measurement unless otherwise specified:

Inflation	2.5 percent
Salary increases	3.50 - 7.75 percent, average, including inflation
Discount rate	2.21 percent
Healthcare cost trend rates	Pre-Medicare - 7.00% for 2019 decreasing to an ultimate rate of 4.50% by 2026 Medicare - 5.00% for 2019 decreasing to an ultimate rate of 4.50% by 2021

The discount rate used to measure the total OPEB liability is based on the June average of the Bond Buyer General Obligation 20-year Municipal Bond Index published weekly by The Bond Buyer.

### **Changes in the Total OPEB Liability**

#### **Total OPEB Liability:**

Balance at July 1, 2020	\$ <u>12,876,052</u>
Changes for the year:	
Service cost at end of year	407,705
Interest	459,812
Difference between expected and actual experience	(37,771)
Changes of assumptions or other inputs	3,227,040
Benefit payments and implicit subsidy credit	(295,107)
Net change in total OPEB liability	3,761,679
Balance at June 30, 2021	\$ 16,637,731

Changes in assumptions and other inputs reflect a change in the discount rate from 3.50% to 2.21%.

# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

Mortality rates were based on the RP-2014 mortality tables, with adjustments for LGERS experience and generational mortality improvements using Scale MP-2015.

The demographic actuarial assumptions for retirement, disability incidence, withdrawal, and salary increases used in the June 30, 2019 valuation were based on the results of an actuarial experience study for the period January 1, 2010 – December 31, 2014, adopted by the LGERS Board.

The remaining actuarial assumptions (e.g., initial per capita costs, health care cost trends, rate of plan participation, rates of plan election, etc.) used in the June 30, 2019 valuation were based on a review of recent plan experience done concurrently with the June 30, 2019 valuation.

*Sensitivity of the Total OPEB Liability to Changes in the Discount Rate.* The following presents the total OPEB liability of the Authority, as well as what the Authority's total OPEB liability would be if it were calculated using a discount rate that is 1-percentage-point lower (1.21 percent) or 1-percentage-point higher (3.21 percent) than the current discount rate:

	<b>1% Decrease</b>	<b>Current</b>	<b>1% Increase</b>
	<b>(1.21%)</b>	<b>Discount</b>	<b>Rate (2.21%)</b>
	<b>(3.21%)</b>		<b>(3.21%)</b>
Total OPEB liability	\$ 19,961,381	\$ 16,637,731	\$ 14,051,339

*Sensitivity of the Total OPEB Liability to Changes in the Healthcare Cost Trend Rates.* The following presents the total OPEB liability of the Authority, as well as what the Authority's total OPEB liability would be if it were calculated using healthcare cost trend rates that are 1-percentage-point lower or 1-percentage-point higher than the current healthcare cost trend rates:

	<b>1% Decrease</b>	<b>Current</b>	<b>1% Increase</b>
Total OPEB liability	\$ 13,715,869	\$ 16,637,731	\$ 20,509,709

### **OPEB Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB**

For the year ended June 30, 2021, the Authority recognized OPEB expense of \$986,707. At June 30, 2021, the Authority reported deferred outflows of resources and deferred inflows of resources related to OPEB from the following sources:

	<b>Deferred</b>	<b>Deferred</b>
	<b>Outflows of</b>	<b>Inflows of</b>
	<b>Resources</b>	<b>Resources</b>
Differences between expected and actual experience	\$ 17,448	\$ 310,569
Changes of assumptions or other inputs	2,770,629	1,095,678
Contributions made to the OPEB plan in the current year	295,482	-
Total	\$ 3,083,559	\$ 1,406,247

# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

\$295,482 reported at deferred outflows of resources related to pensions resulting from benefit payments made and administrative expenses incurred subsequent to the measurement date will be recognized as a decrease of the total OPEB liability in the year ending June 30, 2022. Other amounts reported as deferred inflows and outflows of resources related to pensions will be recognized in pension expense as follows:

<u>Year Ending</u> <u>June 30</u>	<u>Amount</u>
2022	\$ 119,190
2023	119,190
2024	119,190
2025	208,463
2026	337,894
Thereafter	477,903
Total	<u>\$ 1,381,830</u>

### Other Employment Benefits

The Authority has elected to provide death benefits to employees through the Death Benefit Plan for members of the Local Government Employees' Retirement System (Death Benefit Plan), a multiple-employer, state-administered, cost-sharing plan funded on a one-year term cost basis. The beneficiaries of those employees who die in active service after one year of contributing membership in the System, or who die within 180 days after retirement or termination of service and have at least one year of contributing membership service in the System at the time of death are eligible for death benefits. Lump sum death benefit payments to beneficiaries are equal to the employee's 12 highest months' salary in a row during the 24 months prior to the employee's death, but the benefit may not exceed \$50,000 or be less than \$25,000. Because all death benefit payments are made from the Death Benefit Plan and not by the Authority, the Authority does not determine the number of eligible participants. The Authority has no liability beyond the payment of monthly contributions. The contributions to the Death Benefit Plan cannot be separated between the post-employment benefit amount and the other benefit amount. Contributions are determined as a percentage of monthly payroll based upon rates established annually by the state. Separate rates are set for employees not engaged in law enforcement and law enforcement officers. The Authority considers these contributions to be immaterial.

# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

### 4. Deferred Outflows and Inflows of Resources

The Authority has several deferred outflows and deferred inflows of resources comprised of the following:

	2021	2020
<b>Deferred Outflows:</b>		
Contributions to pension plan in current fiscal year	\$ 963,041	\$ 790,230
Pension deferrals	1,612,516	1,198,644
Contributions to OPEB plan in current fiscal year	295,482	295,137
OPEB deferrals	2,788,077	22,066
Deferred charge on refunding	351,007	386,106
Total	\$ 6,010,123	\$ 2,692,183
<b>Deferred Inflows:</b>		
Pension deferrals	\$ 28,625	\$ 39,806
OPEB deferrals	1,406,247	1,710,345
Total	\$ 1,434,872	\$ 1,750,151

### 5. Risk Management and Commitments

*Risk Management.* The Authority is exposed to various risks of losses related to torts; theft of, damage to, and destruction of assets; errors and omissions; injuries to employees and natural disasters. The Authority has property, general liability, workers' compensation, and employee health coverage. Claims have not exceeded coverage in any of the past three fiscal years. The Authority's property insurance does have a flood coverage endorsement. Coverage is provided in zones B, C and X. There is a \$5M single occurrence and yearly aggregate limit and the deductible is \$50k for a single occurrence.

In accordance with G.S. 159-29, the Authority's employees that have access to \$100 or more at any given time of the Authority's funds are performance bonded through a commercial surety bond. The Finance Officer is individually bonded for \$200,000. The remaining employees that have access to funds are bonded under a blanket bond for \$200,000.

*Commitments.* The Authority is committed under various contracts for the completion of water and wastewater treatment facilities and other water and sewer projects. Management estimates the cost to complete these contracts to be approximately \$1,553,297 at June 30, 2021.

### 6. Net Position

At June 30, 2021 and 2020, the Board of Directors had approved the use of the unrestricted net position for the following purposes:

	2021	2020
Operating reserve	\$ 15,645,655	\$ 5,839,587

# ORANGE WATER AND SEWER AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS FOR THE YEARS ENDED JUNE 30, 2021 AND 2020

### 7. Summary Disclosure of Significant Contingencies

#### Federal and State-Assisted Programs

The Authority has received proceeds from federal and state grants. Periodic audits of these grants are required, and certain costs may be questioned as not being appropriate expenditures under the grant agreements. Such audits could result in the refund of grant monies to the grantor agencies. Management believes that any required refunds will be immaterial. No provisions have been made in the accompanying financial statements for the refund of grant monies.

### 8. Reclassifications

Certain reclassifications have been made to the prior year's financial statements to conform to the current year's presentation. These reclassifications had no effect on previously reported results of operations or net position.

### 9. Summary Disclosure of Significant Commitments and Contingencies

During the fiscal year 2020, the World Health Organization declared the spread of Coronavirus Disease (COVID-19) a worldwide pandemic. The COVID-19 pandemic has had significant effects on global markets, supply chains, businesses, and communities. Specific to the Authority, COVID-19 is expected to impact various parts of its fiscal year 2021-22 operations and financial results. Management believes the Authority is taking appropriate actions to mitigate the negative impact. However, the full impact of COVID-19 is unknown and cannot be reasonably estimated as events associated with the pandemic continue to develop.

## ORANGE WATER AND SEWER AUTHORITY

### OTHER POST-EMPLOYMENT BENEFITS REQUIRED SUPPLEMENTARY INFORMATION LAST FOUR FISCAL YEARS

#### Schedule of Changes in the Total OPEB Liability and Related Ratios

	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>
<b>Total OPEB Liability</b>				
Service cost at end of year	\$ 407,705	\$ 445,581	\$ 473,531	\$ 537,550
Interest	459,812	488,973	449,217	396,831
Difference between expected and actual experience	(37,771)	(387,860)	10,631	23,866
Changes of assumptions or other inputs	3,227,040	(97,373)	(719,076)	(1,282,089)
Benefit payments and implicit subsidy credit	<u>(295,107)</u>	<u>(283,833)</u>	<u>(242,282)</u>	<u>(240,928)</u>
Net change in total OPEB liability	3,761,679	165,488	(27,979)	(564,770)
Total OPEB liability - beginning	<u>12,876,052</u>	<u>12,710,564</u>	<u>12,738,543</u>	<u>13,303,313</u>
Total OPEB liability - ending	<u>\$ 16,637,731</u>	<u>\$ 12,876,052</u>	<u>\$ 12,710,564</u>	<u>\$ 12,738,543</u>
Covered-employee payroll	\$ 7,704,086	\$ 7,704,086	\$ 7,751,275	\$ 7,751,275
Total OPEB liability as a percentage of covered-employee payroll	215.96%	167.13%	163.98%	164.34%

#### Notes to Schedule:

*Changes of Assumptions:* Changes of assumptions and other inputs reflect the effects of changes on the discount rate of each period. The following are the discount rates used in each period:

<u>Fiscal Year</u>	<u>Rate</u>
2021	2.21%
2020	3.50%
2019	3.89%
2018	3.56%

**ORANGE WATER AND SEWER AUTHORITY**

**PROPORTIONATE SHARE OF NET PENSION LIABILITY (ASSET)  
REQUIRED SUPPLEMENTARY INFORMATION  
LAST EIGHT FISCAL YEARS \***

<b>Local Government Employees' Retirement System</b>				
	<b>2021</b>	<b>2020</b>	<b>2019</b>	<b>2018</b>
Authority's proportion of the net pension liability (asset) (%)	0.12713%	0.12175%	0.12572%	0.12711%
Authority's proportion of the net pension liability (asset) (\$)	\$ 4,542,897	\$ 3,324,897	\$ 2,982,507	\$ 1,941,888
Authority's covered payroll	\$ 8,780,335	\$ 8,396,386	\$ 8,171,152	\$ 8,194,045
Authority's proportionate share of the net pension liability (asset) as a percentage of its covered payroll	51.74%	39.60%	36.50%	23.70%
Plan fiduciary net position as a percentage of the total liability	88.61%	90.86%	91.63%	94.18%

\* The amounts presented for each fiscal year were determined as of the prior fiscal year ending June 30

The pension schedules are intended to report information for ten years, and additional years' information will be displayed as it becomes available.



**ORANGE WATER AND SEWER AUTHORITY**

**PROPORTIONATE SHARE OF NET PENSION LIABILITY (ASSET)  
REQUIRED SUPPLEMENTARY INFORMATION  
LAST EIGHT FISCAL YEARS \***

	<b>Local Government Employees' Retirement System</b>			
	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
Authority's proportion of the net pension liability (asset) (%)	0.12882%	0.11995%	0.12040%	11.89000%
Authority's proportion of the net pension liability (asset) (\$)	\$ 2,733,991	\$ 538,330	\$ (709,819)	\$ 1,433,202
Authority's covered payroll	\$ 6,980,328	\$ 7,352,374	\$ 7,297,821	\$ 6,909,854
Authority's proportionate share of the net pension liability (asset) as a percentage of its covered payroll	39.17%	7.32%	( 9.73%)	20.74%
Plan fiduciary net position as a percentage of the total liability	91.47%	98.09%	102.64%	94.35%

**ORANGE WATER AND SEWER AUTHORITY**

**CONTRIBUTIONS  
REQUIRED SUPPLEMENTARY INFORMATION  
LAST EIGHT FISCAL YEARS**

<b>Local Government Employees' Retirement System</b>				
	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>
Contractually required contribution	\$ 963,041	\$ 790,230	\$ 655,451	\$ 617,219
Contributions in relation to the contractually required contribution	<u>963,041</u>	<u>790,230</u>	<u>655,451</u>	<u>617,219</u>
Contribution deficiency (excess)	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
Covered payroll	\$ 8,877,118	\$ 8,780,335	\$ 8,396,386	\$ 8,171,152
Contributions as a percentage of covered payroll	10.85%	9.00%	7.81%	7.55%

The pension schedules are intended to report information for ten years, and additional years' information will be displayed as it becomes available.

**ORANGE WATER AND SEWER AUTHORITY**

**CONTRIBUTIONS  
REQUIRED SUPPLEMENTARY INFORMATION  
LAST EIGHT FISCAL YEARS**

<b>Local Government Employees' Retirement System</b>				
	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
Contractually required contribution	\$ 598,984	\$ 510,262	\$ 519,888	\$ 516,608
Contributions in relation to the contractually required contribution	<u>598,984</u>	<u>510,262</u>	<u>519,888</u>	<u>516,608</u>
Contribution deficiency (excess)	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
Covered payroll	\$ 8,194,045	\$ 6,980,328	\$ 7,352,374	\$ 7,297,821
Contributions as a percentage of covered payroll	7.31%	7.31%	7.07%	7.08%

**ORANGE WATER AND SEWER AUTHORITY**

**ENTERPRISE FUND - WATER  
SCHEDULE OF REVENUES AND EXPENDITURES  
BUDGET AND ACTUAL (NON-GAAP)  
FOR THE YEAR ENDED JUNE 30, 2021**

	<u>Final Budget</u>	<u>Actual</u>	<u>Variance Over/Under</u>
<b>Revenues:</b>			
Operating revenues:			
Water	\$ 17,701,102	\$ 17,608,186	\$ (92,916)
Sewer	16,820,377	16,620,662	(199,715)
Reclaimed water	463,200	454,180	(9,020)
Service initiation fees	18,820	15,810	(3,010)
Other	922,686	815,983	(106,703)
Total operating revenues	<u>35,926,185</u>	<u>35,514,821</u>	<u>(411,364)</u>
Non-operating revenues:			
Interest income	81,296	1,291	(80,005)
System development fees	1,081,490	1,860,926	779,436
FEMA Reimbursement	-	731	731
Total non-operating revenues	<u>1,162,786</u>	<u>1,862,948</u>	<u>700,162</u>
Total revenues	<u>37,088,971</u>	<u>37,377,769</u>	<u>288,798</u>
<b>Expenditures:</b>			
Water supply and treatment:			
Salaries and wages	1,471,741	602,312	869,429
Fringe benefits	605,820	473,703	132,117
Materials and supplies	186,992	139,527	47,465
Chemicals	1,413,495	1,345,999	67,496
Utilities	292,206	283,204	9,002
Maintenance	963,953	713,580	250,373
Professional services	12,500	28,179	(15,679)
Insurance	64,800	60,139	4,661
Communication	3,000	542	2,458
Education and development	9,600	4,125	5,475
Miscellaneous	80,809	82,443	(1,634)
Total water supply and treatment	<u>5,104,916</u>	<u>3,733,753</u>	<u>1,371,163</u>

**ORANGE WATER AND SEWER AUTHORITY**

**ENTERPRISE FUND - WATER  
SCHEDULE OF REVENUES AND EXPENDITURES  
BUDGET AND ACTUAL (NON-GAAP)  
FOR THE YEAR ENDED JUNE 30, 2021**

	<u>Final Budget</u>	<u>Actual</u>	<u>Variance Over/Under</u>
Water distribution:			
Salaries and wages	1,721,815	1,635,937	85,878
Fringe benefits	754,191	2,141,080	(1,386,889)
Materials and supplies	105,143	89,431	15,712
Utilities	210,306	155,929	54,377
Maintenance	539,436	476,484	62,952
Insurance	6,900	8,525	(1,625)
Communication	5,000	3,828	1,172
Printing and reproduction	1,500	-	1,500
Education and development	23,100	7,611	15,489
Miscellaneous	1,500	3,359	(1,859)
Total water distribution	<u>3,368,891</u>	<u>4,522,184</u>	<u>(1,153,293)</u>
Construction credits	<u>(187,250)</u>	<u>(157,677)</u>	<u>(29,573)</u>
Wastewater treatment:			
Salaries and wages	1,525,274	1,653,858	(128,584)
Fringe benefits	611,431	488,045	123,386
Materials and supplies	249,094	205,840	43,254
Chemicals	805,569	750,651	54,918
Utilities	663,536	616,140	47,396
Maintenance	1,167,944	997,830	170,114
Professional services	20,000	10,844	9,156
Insurance	77,721	72,956	4,765
Communication	1,000	960	40
Education and development	38,625	4,853	33,772
Miscellaneous	69,350	103,249	(33,899)
Total wastewater treatment	<u>5,229,544</u>	<u>4,905,226</u>	<u>324,318</u>
Sewer collections:			
Salaries and wages	543,498	542,546	952
Fringe benefits	257,032	178,029	79,003
Materials and supplies	50,681	26,101	24,580
Chemicals	230,000	231,302	(1,302)
Utilities	136,974	107,897	29,077
Maintenance	190,294	157,205	33,089
Insurance	6,900	7,903	(1,003)
Communication	500	148	352

**ORANGE WATER AND SEWER AUTHORITY**

**ENTERPRISE FUND - WATER  
SCHEDULE OF REVENUES AND EXPENDITURES  
BUDGET AND ACTUAL (NON-GAAP)  
FOR THE YEAR ENDED JUNE 30, 2021**

	<u>Final Budget</u>	<u>Actual</u>	<u>Variance Over/Under</u>
Printing and distribution	7,000	-	7,000
Education and development	10,750	9,302	1,448
Miscellaneous	<u>6,000</u>	<u>2,633</u>	<u>3,367</u>
Total sewer collections	<u>1,439,629</u>	<u>1,263,066</u>	<u>176,563</u>
Construction credits	<u>-</u>	<u>(34,379)</u>	<u>34,379</u>
General and administrative:			
Salaries and wages	3,777,553	3,772,133	5,420
Fringe benefits	1,601,088	838,277	762,811
Materials and supplies	142,613	109,564	33,049
Utilities	191,800	161,028	30,772
Maintenance	468,853	478,749	(9,896)
Professional services	1,235,855	1,034,981	200,874
Insurance	81,031	103,823	(22,792)
Communication	187,746	219,293	(31,547)
Printing and reproduction	26,700	10,360	16,340
Education and development	95,010	19,127	75,883
Miscellaneous	<u>203,545</u>	<u>190,099</u>	<u>13,446</u>
Total general and administrative	<u>8,011,794</u>	<u>6,937,434</u>	<u>1,074,360</u>
Construction credits	<u>(147,179)</u>	<u>(127,783)</u>	<u>(19,396)</u>
<b>Debt Service:</b>			
Principal		7,329,500	
Interest		<u>2,420,667</u>	
Total debt service	<u>9,068,258</u>	<u>9,750,167</u>	<u>(681,909)</u>
Capital outlay	<u>21,393,500</u>	<u>17,253,574</u>	<u>4,139,926</u>
Total expenditures	<u>53,282,103</u>	<u>48,045,565</u>	<u>5,236,538</u>
Revenues over (under) expenditures	<u>(16,193,132)</u>	<u>(10,667,796)</u>	<u>5,525,336</u>

**ORANGE WATER AND SEWER AUTHORITY**

**ENTERPRISE FUND - WATER  
SCHEDULE OF REVENUES AND EXPENDITURES  
BUDGET AND ACTUAL (NON-GAAP)  
FOR THE YEAR ENDED JUNE 30, 2021**

	<u>Final Budget</u>	<u>Actual</u>	<u>Variance Over/Under</u>
<b>Other Financing Sources (Uses):</b>			
Proceeds from borrowing	15,488,632	20,796,724	(5,308,092)
Bond refunding premium	-	1,633,800	(1,633,800)
Appropriated fund balance	<u>704,500</u>	-	<u>704,500</u>
Total other financing sources (uses)	<u>16,193,132</u>	<u>22,430,524</u>	<u>(6,237,392)</u>
Net change in fund balance	<u>\$ -</u>	11,762,728	<u>\$ 11,762,728</u>
<b>Reconciliation from Budgetary Basis (Modified Accrual) to Full Accrual Basis:</b>			
Principal payments debt		7,329,500	
Bond refunding premium		(1,633,800)	
Long-term debt issued		(20,796,724)	
Change in interest accrual for bonded debt		(287,808)	
Depreciation		(10,476,244)	
Change in deferred outflows of resources - pensions		413,872	
Change in net pension liability		(1,218,000)	
Change in deferred inflows of resources - pensions		11,181	
Change in compensated absences		(24,187)	
OPEB expense		(986,707)	
Amortization of bond expense and patent		946,570	
Capital outlay		17,253,574	
Gain on disposal of capital asset		58,639	
Costs of issuance		(367,393)	
Capital contributions		<u>1,365,144</u>	
Change in net position		<u>\$ 3,350,345</u>	

**ORANGE WATER AND SEWER AUTHORITY**

**SCHEDULE OF REVENUE AND EXPENDITURES -  
PROJECT FUNDS  
FROM INCEPTION THROUGH JUNE 30, 2021**

	<u>Project Budget</u>	<u>Cumulative Total to June 30, 2021</u>	<u>Unexpended Balance as of June 30, 2021</u>
<b>Raw Water Supply Sources:</b>			
<b>Revenues:</b>			
General Fund	\$ 2,892,103	\$ 2,988,196	\$ (96,093)
<b>Expenditures:</b>			
Jordan Lake raw water supply intake and pumping facility	\$ 352,558	\$ 358,883	\$ (6,325)
Stone quarry development	411,545	192,872	218,673
University Lake pump station improvements	1,426,000	2,195,050	(769,050)
Cane Creek pump station improvements	35,000	-	35,000
Cane Creek raw water transmission main capacity study	200,000	275	199,725
University Lake permanganate facility	347,000	241,116	105,884
University Lake fishing pier and boat launch	70,000	-	70,000
Western Intake Partnership projects	50,000	-	50,000
Total expenditures	<u>\$ 2,892,103</u>	<u>\$ 2,988,196</u>	<u>\$ (96,093)</u>
<b>Water Treatment:</b>			
<b>Revenues:</b>			
General Fund	\$ 9,770,000	\$ 10,231,009	\$ (461,009)
<b>Expenditures:</b>			
Water treatment plant rehabilitation projects	\$ 80,000	\$ 131,057	\$ (51,057)
Water treatment plant front entry rehabilitation	35,000	11,235	23,765
HVAC replacement	325,000	200,129	124,871
Water treatment plant electrical distribution improvements	200,000	478,709	(278,709)
Plants SCADA master plan	175,000	120,900	54,100
Water treatment plant turbidimeter replacements	90,000	49,211	40,789
Water treatment plant sedimentation basin rehabilitation	2,647,000	2,813,582	(166,582)
Water treatment plant concrete condition assessment	375,000	165,556	209,444
Water treatment plant filter media and backwash improvements	1,330,000	1,335,321	(5,321)
Water treatment plant finished water pump improvements	850,000	537,660	312,340
Water treatment plant chemical facility upgrades	2,855,000	3,741,871	(886,871)
Water treatment plant belt filter press replacement	808,000	645,778	162,222
Total expenditures	<u>\$ 9,770,000</u>	<u>\$ 10,231,009</u>	<u>\$ (461,009)</u>
<b>Water Transmission and Distribution:</b>			
<b>Revenues:</b>			
General Fund	\$ 29,608,547	\$ 21,057,961	\$ 8,550,587
<b>Expenditures:</b>			
Water main - road improvement projects	\$ 612,000	\$ 426,091	\$ 185,909
Water main rehabilitation/replacement projects	7,942,547	6,422,739	1,519,808
High priority water main replacement	8,832,000	7,813,718	1,018,282
Water main upgrades - development projects	231,000	-	231,000
Barbee Chapel Road booster pump station study	75,000	-	75,000
Dobbins Drive water main replacement	1,196,000	1,429,409	(233,409)
Dobbins Drive water main condition assessment	435,000	-	435,000



**ORANGE WATER AND SEWER AUTHORITY**

**SCHEDULE OF REVENUE AND EXPENDITURES -  
PROJECT FUNDS  
FROM INCEPTION THROUGH JUNE 30, 2021**

	<b>Project Budget</b>	<b>Cumulative Total to June 30, 2021</b>	<b>Unexpended Balance as of June 30, 2021</b>
Cameron Avenue water main replacement	2,244,000	1,691,929	552,071
Cameron Avenue water main design alternatives assessment	25,000	-	25,000
Water distribution system hydraulic model	280,000	90,804	189,196
Jones Ferry water line improvements	1,800,000	829,222	970,778
Galvanized water main replacement	1,709,000	534,479	1,174,521
Kensington water line replacement	2,079,000	1,212,271	866,729
Distribution system prioritization model	495,000	465,482	29,518
Distribution system sampling stations	185,000	2,000	183,000
Bolinwood Bridge water main replacement	300,000	138,262	161,738
Westwood neighborhood water and sewer rehabilitation	75,000	-	75,000
Lake Ellen water main replacement	160,000	-	160,000
Brandywine Road water main replacement	739,000	-	739,000
Barnes Street valve evaluation	34,000	-	34,000
Distribution system condition assessment	100,000	1,554	98,446
Water main replacement - Group II	60,000	-	60,000
Total expenditures	<u>\$ 29,608,547</u>	<u>\$ 21,057,960</u>	<u>\$ 8,550,587</u>

**Wastewater Collection Lines:**

**Revenues:**

General Fund	<u>\$ 19,328,000</u>	<u>\$ 14,511,635</u>	<u>\$ 4,816,366</u>
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**Expenditures:**

Gravity sewer rehabilitation	\$ 12,837,000	\$ 10,827,528	\$ 2,009,472
Bolinwood Drive interceptor replacement	1,254,000	294,264	959,736
Dobbins Drive interceptor replacement	2,910,000	2,439,616	470,384
Willow Drive interceptor replacement	25,000	-	25,000
Prince Street common service replacement	65,000	46,055	18,945
Rocky Branch interceptor replacement	62,000	39,502	22,498
Creek crossing access improvements	771,000	136,643	634,357
Rogers Road sanitary sewer extension	1,803,000	1,135,421	667,579
Credit (Orange County reimbursement) Rogers Road sewer	(1,673,000)	(1,074,845)	(598,155)
Sanitary sewer hydraulic modeling	1,214,000	655,204	558,796
Collection system flow monitors	60,000	-	60,000
East Main Street sewer rehabilitation	-	12,246	(12,246)
Total expenditures	<u>\$ 19,328,000</u>	<u>\$ 14,511,634</u>	<u>\$ 4,816,366</u>

**ORANGE WATER AND SEWER AUTHORITY**

**SCHEDULE OF REVENUE AND EXPENDITURES -  
PROJECT FUNDS  
FROM INCEPTION THROUGH JUNE 30, 2021**

	<u>Project Budget</u>	<u>Cumulative Total to June 30, 2021</u>	<u>Unexpended Balance as of June 30, 2021</u>
<b>Wastewater Pumping Stations and Force Mains:</b>			
<b>Revenues:</b>			
General Fund	\$ 6,295,000	\$ 9,196,765	\$ (2,901,766)
<b>Expenditures:</b>			
Rogerson Drive pump station rehabilitation	\$ 4,448,000	\$ 3,324,613	\$ 1,123,387
Rogerson Drive force main routing study	50,000	-	50,000
Rogerson Drive force main evaluation	75,000	-	75,000
Rogerson Drive force main and pump station program	147,000	109,532	37,468
Pump station operational assessments	140,000	48,228	91,772
Rogerson Drive force main emergency repair	1,200,000	5,677,521	(4,477,521)
Wastewater pump station rehabilitation	235,000	36,872	198,128
Total expenditures	<u>\$ 6,295,000</u>	<u>\$ 9,196,766</u>	<u>\$ (2,901,766)</u>
<b>Wastewater Treatment and Disposal:</b>			
<b>Revenues:</b>			
General Fund	\$ 20,638,000	\$ 15,140,617	\$ 5,497,383
<b>Expenditures:</b>			
Mason Farm waste water treatment plant rehabilitation and improvement project	\$ 2,107,000	\$ 2,431,685	\$ (324,685)
Mason Farm waste water treatment plant intermediate pump station (IPS) rehabilitation	1,716,000	930,680	785,320
Mason Farm waste water treatment plant solids thickening system improvements	8,601,000	6,316,944	2,284,056
Mason Farm waste water treatment plant hyper-pitch mixer blades	58,000	-	58,000
Mason Farm waste water treatment plant piping heat tracing and insulation	35,000	-	35,000
Plants facilities building envelope rehabilitation	1,175,000	797,630	377,370
Mason Farm waste water treatment plant miscellaneous building rehabilitation	65,000	-	65,000
Mason Farm waste water treatment plant biosolids conveyance and loading	91,000	-	91,000
Offsite biosolids storage improvements	115,000	38,782	76,218
Mason Farm waste water treatment plant filtrate side stream treatment	194,000	-	194,000
Mason Farm waste water treatment plant secondary clarifier rehabilitation and pumping improvements	2,461,000	1,246,255	1,214,745
Mason Farm waste water treatment plant digester complex rehabilitation and improvements	692,000	878,805	(186,805)
Mason Farm waste water treatment plant fermenter tank and pumping rehabilitation	200,000	-	200,000
Mason Farm waste water treatment plant primary sludge pump station rehabilitation and old lab building demo	75,000	-	75,000
Asset Management Plan development	-	24,840	(24,840)

**ORANGE WATER AND SEWER AUTHORITY**

**SCHEDULE OF REVENUE AND EXPENDITURES -  
PROJECT FUNDS  
FROM INCEPTION THROUGH JUNE 30, 2021**

	<u>Project Budget</u>	<u>Cumulative Total to June 30, 2021</u>	<u>Unexpended Balance as of June 30, 2021</u>
Mason Farm waste water treatment plant rehabilitation and replacement of chemical building and piping	995,000	907,586	87,414
Mason Farm waste water treatment plant security improvements	182,000	33,380	148,620
Mason Farm waste water treatment plant gas monitoring system	190,000	-	190,000
Mason Farm waste water treatment plant headworks rehabilitation	1,361,000	1,495,464	(134,464)
Mason Farm waste water plant facilities planning	100,000	88	99,912
Mason Farm waste water treatment plant clarifier No. 4 conversion	125,000	38,478	86,522
Mason Farm waste water treatment plant administration building planning study	25,000	-	25,000
Reclaimed water valve and coupling rehabilitation	75,000	-	75,000
Total expenditures	<u>\$ 20,638,000</u>	<u>\$ 15,140,617</u>	<u>\$ 5,497,383</u>
<b>Facility Improvements:</b>			
<b>Revenues:</b>			
General Fund	<u>\$ -</u>	<u>\$ 10,240</u>	<u>\$ (10,240)</u>
<b>Expenditures:</b>			
Administration building locker room renovation study	<u>\$ -</u>	<u>\$ 10,240</u>	<u>\$ (10,240)</u>

**ORANGE WATER AND SEWER AUTHORITY**

**Table 1**

**Net Position by Components**

Last Ten Fiscal Years

(Accrual Basis of Accounting)

(Unaudited)

	Fiscal Year									
	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Net investment in capital assets	\$ 263,554,194	\$ 270,044,238	\$ 266,060,335	\$ 255,136,679	\$ 236,928,712	\$ 224,969,584	\$ 218,421,756	\$ 219,522,714	\$ 206,109,733	\$ 200,603,988
Restricted for capital reserve	310,538	276,217	241,332	206,053	171,013	260,978	222,470	187,910	151,600	125,721
Restricted for future capital projects	-	-	-	-	-	-	-	-	14,116,382	-
Restricted for debt service	-	-	-	-	-	-	-	-	-	-
Unrestricted	15,645,655	5,839,587	6,068,016	9,495,342	26,560,322	29,327,642	26,899,507	18,686,692	11,759,800	26,082,644
<b>Total</b>	<u>\$ 279,510,387</u>	<u>\$ 276,160,042</u>	<u>\$ 272,369,683</u>	<u>\$ 264,838,074</u>	<u>\$ 263,660,047</u>	<u>\$ 254,558,204</u>	<u>\$ 245,543,733</u>	<u>\$ 238,397,316</u>	<u>\$ 232,137,515</u>	<u>\$ 226,812,353</u>

**ORANGE WATER AND SEWER AUTHORITY**

**Table 2**

**Changes in Net Position**  
 Last Ten Fiscal Years  
 (Accrual Basis of Accounting)  
 (Unaudited)

	Fiscal Year									
	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
<b>Operating Revenues:</b>										
Water	\$ 17,608,186	\$ 17,893,981	\$ 17,666,256	\$ 19,013,363	\$ 17,540,247	\$ 17,894,907	\$ 18,291,453	\$ 17,969,519	\$ 17,819,790	\$ 18,556,754
Sewer	16,620,662	16,948,606	17,058,037	16,868,447	16,561,076	16,514,394	16,739,718	16,589,072	16,313,731	16,550,596
Service initiation fees	15,810	24,680	98,625	156,225	169,965	169,660	167,410	167,615	161,015	170,270
Other	1,270,163	1,438,927	1,362,922	1,505,208	1,469,106	1,790,409	1,762,261	1,116,826	1,163,077	1,211,529
<b>Total operating revenues</b>	<b>35,514,821</b>	<b>36,306,194</b>	<b>36,185,840</b>	<b>37,543,243</b>	<b>35,740,394</b>	<b>36,369,370</b>	<b>36,960,842</b>	<b>35,843,032</b>	<b>35,457,613</b>	<b>36,489,149</b>
<b>Operating Expenses:</b>										
Water supply and treatment	4,526,700	4,883,456	5,001,419	5,601,957	5,145,181	4,692,599	4,553,491	4,267,802	4,587,852	4,326,429
Water distribution	4,364,507	4,734,237	4,045,476	2,659,501	3,554,221	2,781,136	2,782,489	2,720,838	2,323,295	2,296,726
Sewer treatment	4,905,226	5,081,371	5,406,223	4,607,301	4,813,684	4,561,981	4,457,289	4,721,294	4,763,520	4,946,090
Sewer collections	1,228,687	1,265,359	1,065,628	1,264,196	1,329,131	1,185,549	1,254,390	1,224,941	1,352,127	1,434,619
General and administrative	6,833,838	7,244,321	6,820,965	7,352,499	6,331,018	6,403,637	5,951,983	5,662,788	5,754,629	5,709,219
Depreciation and amortization	10,476,244	9,780,753	9,558,087	9,226,257	8,909,129	8,919,124	9,384,310	9,393,739	9,514,909	9,539,846
Other post-employment benefits	986,707	602,645	613,772	765,944	493,193	466,573	372,993	1,012,532	1,033,149	1,038,521
<b>Total operating expenses</b>	<b>33,321,909</b>	<b>33,592,142</b>	<b>32,511,570</b>	<b>31,477,655</b>	<b>30,575,557</b>	<b>29,010,599</b>	<b>28,756,945</b>	<b>29,003,934</b>	<b>29,329,481</b>	<b>29,291,450</b>
<b>Operating income (loss)</b>	<b>2,192,912</b>	<b>2,714,052</b>	<b>3,674,270</b>	<b>6,065,588</b>	<b>5,164,837</b>	<b>7,358,771</b>	<b>8,203,897</b>	<b>6,839,098</b>	<b>6,128,132</b>	<b>7,197,699</b>
<b>Non-Operating Revenues (Expenses):</b>										
System development fees	1,860,926	1,393,871	1,593,210	1,599,382	2,219,227	1,397,652	1,429,244	1,069,551	1,769,883	1,899,056
Investment adjustment	1,291	63,207	64,842	56,524	32,802	20,663	15,133	14,755	15,664	17,964
Interest expense	(2,708,475)	(2,565,779)	(2,161,022)	(1,863,061)	(1,668,138)	(1,729,871)	(2,637,681)	(2,644,155)	(2,334,944)	(2,274,113)
Amortization of bond expense and patent	946,570	611,927	544,907	102,842	914,691	120,781	(177,021)	107,636	111,529	19,139
Other	(308,023)	(419,681)	(219,674)	(19,340)	75,348	-	(145,273)	23,591	4,228	(235,552)
<b>Income (loss) before contributions</b>	<b>1,985,201</b>	<b>1,797,597</b>	<b>3,496,533</b>	<b>5,941,935</b>	<b>6,738,767</b>	<b>7,167,996</b>	<b>6,688,299</b>	<b>5,410,476</b>	<b>5,694,492</b>	<b>6,624,193</b>
<b>Capital Contributions:</b>										
Capital grants and contributions	-	-	-	-	-	18,170	2,320	-	-	142,329
Contributions in aid of construction	1,365,144	1,992,762	4,035,076	1,509,516	2,363,076	1,828,305	1,372,391	849,325	420,251	2,325,456
<b>Total capital contributions</b>	<b>1,365,144</b>	<b>1,992,762</b>	<b>4,035,076</b>	<b>1,509,516</b>	<b>2,363,076</b>	<b>1,846,475</b>	<b>1,374,711</b>	<b>849,325</b>	<b>420,251</b>	<b>2,467,785</b>
<b>Increase in net position</b>	<b>3,350,345</b>	<b>3,790,359</b>	<b>7,531,609</b>	<b>7,451,451</b>	<b>9,101,843</b>	<b>9,014,471</b>	<b>8,063,010</b>	<b>6,259,801</b>	<b>6,114,743</b>	<b>9,091,978</b>
<b>Net Position:</b>										
Beginning of year, previously reported - July 1	276,160,042	272,369,683	264,838,074	263,660,047	254,558,204	245,543,733	238,397,316	232,137,515	204,284,625	195,192,647
Restatement	-	-	-	(6,273,424)	-	-	(916,593)	-	(789,581)	-
Beginning of year, restated	<u>276,160,042</u>	<u>272,369,683</u>	<u>264,838,074</u>	<u>257,386,623</u>	<u>254,558,204</u>	<u>245,543,733</u>	<u>237,480,723</u>	<u>232,137,515</u>	<u>203,495,044</u>	<u>195,192,647</u>
End of year - June 30	<u>\$ 279,510,387</u>	<u>\$ 276,160,042</u>	<u>\$ 272,369,683</u>	<u>\$ 264,838,074</u>	<u>\$ 263,660,047</u>	<u>\$ 254,558,204</u>	<u>\$ 245,543,733</u>	<u>\$ 238,397,316</u>	<u>\$ 209,609,787</u>	<u>\$ 204,284,625</u>

**ORANGE WATER AND SEWER AUTHORITY**

**Table 3**

**Water Processed and Wastewater Treated**

(Thousands of Gallons)

Last Ten Fiscal Years

(Unaudited)

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<b>Fiscal Year Ended June 30</b>	<b>Water Processed and Pumped to System</b>	<b>Wastewater Treated</b>
2012	2,515,000	2,784,486
2013	2,413,000	2,942,331
2014	2,477,000	3,027,879
2015	2,521,096	2,954,345
2016	2,440,937	3,149,225
2017	2,397,093	3,094,963
2018	2,463,021	2,843,422
2019	2,432,215	2,971,517
2020	2,352,007	2,734,725
2021	2,254,895	2,830,202

Source: Orange Water and Sewer Authority's records

**ORANGE WATER AND SEWER AUTHORITY**

**Table 4**

**Ratio of Bonded Debt to Net Operating Revenues and Net Bonded Debt Per Customer**

Last Ten Fiscal Years

(Unaudited)

<b>Fiscal Year Ended June 30</b>	<b>Customer Estimate</b>	<b>Net Operating Revenues</b>	<b>Debt Service Requirements</b>	<b>Net Bonded Debt</b>	<b>Ratio of Net Revenues to Debt Service Requirements</b>	<b>Net Bonded Debt Per Customer</b>
2012	\$ 20,916	\$ 19,693,086	\$ 8,550,976	\$ 89,245,000	\$ 2.30	\$ 4,266.83
2013	21,043	18,461,737	7,898,190	83,845,000	2.34	3,984.46
2014	21,105	18,329,675	7,814,155	78,675,000	2.35	3,727.79
2015	21,239	19,405,577	8,542,276	72,910,000	2.27	3,432.84
2016	21,385	18,162,783	7,662,664	67,720,000	2.37	3,166.71
2017	21,526	16,819,188	7,930,519	61,835,000	2.12	2,872.57
2018	21,585	17,713,695	7,007,230	55,125,000	2.53	2,553.86
2019	21,712	15,504,181	6,362,502	50,185,000	2.44	2,311.39
2020	21,823	14,998,272	7,213,125	60,845,000	2.08	2,788.11
2021	21,921	15,843,468	7,933,465	73,410,000	2.00	3,348.84

**ORANGE WATER AND SEWER AUTHORITY**

**Table 5**

**Ratio of Total Debt to Net Operating Revenues and Net Total Debt Per Customer**

Last Ten Fiscal Years

(Unaudited)

<b>Fiscal Year Ended June 30</b>	<b>Customer Estimate</b>	<b>Net Operating Revenues</b>	<b>Debt Service Requirements</b>	<b>Net Total Debt</b>	<b>Ratio of Net Revenues to Debt Service Requirements</b>	<b>Net Total Debt Per Customer</b>
2012	\$ 20,916	\$ 19,693,086	\$ 8,550,976	\$ 89,400,826	\$ 2.30	\$ 4,266.83
2013	21,043	18,461,737	7,898,190	83,845,000	2.34	3,984.46
2014	21,105	18,329,675	7,814,155	78,675,000	2.35	3,727.79
2015	21,239	19,405,577	8,542,276	79,142,000	2.27	3,432.84
2016	21,385	18,162,783	7,662,664	73,624,000	2.37	3,166.71
2017	21,526	16,819,188	7,930,519	67,411,000	2.12	2,872.57
2018	21,585	17,713,695	7,007,230	60,373,000	2.53	2,553.86
2019	21,712	15,504,181	6,362,502	62,429,218	2.44	2,875.33
2020	21,823	14,998,272	7,213,125	74,245,502	2.08	3,402.17
2021	21,921	15,843,468	7,933,465	87,725,726	2.00	4,001.90



**ORANGE WATER AND SEWER AUTHORITY**

**Table 6**

**Principal Water and Sewer Customers**

Year Ended June 30, 2021 and 2012

(Unaudited)

	<b>Percent of Water Sales 2021</b>	<b>Percent of Water Sales 2012</b>
University of North Carolina at Chapel Hill	19%	22%
Chapel Hill - Carrboro City Schools	1%	1%
Triangle Communities (Apartments)	<1%	<1%
Royal Park Apartments	<1%	
Town of Chapel Hill	<1%	<1%
Northwood Ravin Apartments	<1%	
The Villages Apartments	<1%	<1%
Chapel Hill Housing	<1%	
Autumn Hill Apartments	<1%	
Estes Park Apartments	<1%	
Carol Woods Retirement Community		<1%
University Place		<1%
Chapel Ridge Apartments		
Estes Park Apartments		
The Cedars of Chapel Hill (Apartments)		
Abbey Court Condominiums		
Kingswood Apartments		<1%
Pinegate Apartments		<1%
Collins Crossing Apartments		<1%

Source: Orange Water and Sewer Authority's Records

**ORANGE WATER AND SEWER AUTHORITY**

**Table 7**

**Town of Chapel Hill NC, Property Tax Levies and Collections**

Last Ten Fiscal Years

(Unaudited)

<u>Fiscal Year Ended June 30</u>	<u>Taxes Levied for the Fiscal Year</u>	<u>Collected within the Fiscal Year of the Levy</u>		<u>Collections in Subsequent Years</u>	<u>Total Collections to Date</u>		<u>Outstanding Delinquent Taxes</u>
		<u>Amount</u>	<u>Percentage of Original Levy</u>		<u>Amount</u>	<u>Percentage of Adjusted Levy</u>	
2012	\$ 35,887,926	\$ 35,604,067	99.21%	\$ -	\$ 35,604,067	99.21%	\$ 283,859
2013	36,084,217	35,809,148	99.24%	-	35,809,148	99.24%	275,069
2014	38,361,125	38,115,148	99.36%	-	38,115,148	99.36%	245,977
2015	39,009,200	38,849,950	99.59%	-	38,849,950	99.59%	159,250
2016	39,789,825	39,638,269	99.62%	-	39,638,269	99.62%	151,556
2017	39,471,449	39,314,757	99.60%	-	39,314,757	99.60%	156,692
2018	40,816,019	40,679,175	99.66%	-	40,679,175	99.66%	136,844
2019	43,418,983	43,206,984	99.51%	-	43,206,984	99.51%	211,999
2020	45,060,958	44,871,448	99.58%	-	44,871,448	99.58%	189,510
2021	46,050,771	45,882,304	99.63%	-	45,882,304	99.63%	168,467

**ORANGE WATER AND SEWER AUTHORITY**

**Table 8**

**Town of Chapel Hill, NC Assessed Value and Actual Value of Taxable Property**  
 Last Ten Fiscal Years  
 (Unaudited)

<b>Fiscal Year Ended June 30</b>	<b>Residential Property</b>	<b>Commercial Property</b>	<b>Combined Real Property</b>	<b>Personal Property</b>	<b>Public Service Companies (3)</b>	<b>Total Taxable Assessed Value</b>	<b>Total Direct Tax Rate (4)</b>	<b>Estimated Actual Taxable Value (5)</b>	<b>Ratio of Assessed Value to Estimated Actual Value (6)</b>
2012	*	*	\$ 6,730,528,993	\$ 471,001,413	\$ 63,232,013	\$ 7,264,762,419	\$ 0.494	\$ 6,908,951,421	105.15%
2013	*	*	6,701,285,738	536,958,587	66,253,143	7,304,497,468	0.494	7,035,732,487	103.82%
2014	*	*	6,823,181,920	573,309,679	66,762,306	7,463,253,905	0.514	7,421,692,427	100.56%
2015	*	*	6,862,576,184	519,383,543	65,246,662	7,447,206,389	0.524	7,606,952,389	97.90%
2016	*	*	6,913,283,131	541,047,846	85,443,691	7,539,774,668	0.524	7,599,047,236	99.22%
2017	*	*	6,902,832,865	546,117,755	83,768,622	7,532,719,242	0.524	7,562,971,127	99.60%
2018 (1)	*	*	7,399,771,971	550,409,864	84,467,574	8,034,649,409	0.508	8,062,060,414	99.66%
2019	*	*	7,529,444,369	613,170,831	80,677,065	8,223,292,265	0.528	8,263,784,811	99.51%
2020	*	*	7,601,209,365	598,051,765	84,003,208	8,283,264,338	0.544	8,318,200,781	99.58%
2021	*	*	7,805,662,760	576,246,878	83,305,619	8,465,215,257	0.544	8,496,652,873	99.63%

\*The Breakdown between residential and commercial property is not available for fiscal years after 2011.

Notes:

- (1) Revaluation year.
- (2) Increase due to revaluation and the addition of \$200 million from a major annexation.
- (3) Public service companies valuations are provided by the North Carolina Department of Revenue. These amounts include both real and personal property.
- (4) Per \$100 of value. Includes taxes for General Fund, Debt Service Fund, and Transit Fund.
- (5) The estimated market value is calculated by dividing the assessed value by an assessment-to-sales ratio determined by the North Carolina Department of Revenue. The ratio is based on actual property sales which took place during the fiscal year.
- (6) Source is the Property Tax Division of the North Carolina Department of Revenue.

**ORANGE WATER AND SEWER AUTHORITY**

**Table 9**

**Town of Chapel Hill, NC Direct and Overlapping Property Tax Rates (Per \$100 of Assessed Value)**

Last Ten Fiscal Years

(Unaudited)

	<b>Years Taxes Payable</b>									
	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
<b>Chapel Hill within Orange County:</b>										
Town direct rates:										
General Fund	\$ 0.378	\$ 0.378	\$ 0.388	\$ 0.388	\$ 0.388	\$ 0.388	\$ 0.376	\$ 0.386	\$ 0.386	\$ 0.386
Transportation	0.041	0.041	0.051	0.051	0.051	0.051	0.050	0.060	0.060	0.060
Debt Service**	0.075	0.075	0.075	0.085	0.085	0.085	0.082	0.082	0.098	0.098
Downtown Service District	0.071	0.071	0.071	0.071	0.071	0.071	0.070	0.070	0.070	0.070
Overlapping rates:										
Orange County	0.858	0.858	0.858	0.878	0.878	0.878	0.838	0.850	0.868	0.868
Chapel Hill - Carrboro School District	0.188	0.188	0.208	0.208	0.208	0.208	0.202	0.202	0.202	0.202
<b>Total</b>	<b>1.611</b>	<b>1.611</b>	<b>1.651</b>	<b>1.681</b>	<b>1.681</b>	<b>1.681</b>	<b>1.618</b>	<b>1.650</b>	<b>1.684</b>	<b>1.070</b>
<b>Chapel Hill within Durham County:</b>										
Town direct rates:										
General Fund	0.378	0.378	0.388	0.388	0.388	0.388	0.376	0.386	0.386	0.386
Transportation	0.041	0.041	0.051	0.051	0.051	0.051	0.050	0.060	0.060	0.060
Debt Service	0.075	0.075	0.075	0.085	0.085	0.085	0.082	0.082	0.098	0.098
Overlapping rates:										
Durham County	0.746	0.744	0.744	0.744	0.793	0.740	0.768	0.778	0.712	0.712
<b>Total</b>	<b>1.240</b>	<b>1.238</b>	<b>1.258</b>	<b>1.268</b>	<b>1.317</b>	<b>1.264</b>	<b>1.276</b>	<b>1.306</b>	<b>1.256</b>	<b>1.256</b>

\*Revaluation Year

Source: North Carolina State Department of Revenue

**ORANGE WATER AND SEWER AUTHORITY**

**Table 10**

**Town of Chapel Hill, NC Demographic and Economic Statistics**

Last Ten Fiscal Years

(Unaudited)

<u>Year</u>	<u>Population (1)</u>	<u>Personal Income (in thousands)(2)</u>	<u>Per Capita Personal Income (2)</u>	<u>Median Age (3)</u>	<u>Education Level in Years of Schooling (3)</u>	<u>School Enrollment (4)</u>	<u>Unemployment Rate % (5)</u>
2012	57,757	\$ 6,268,886	\$ 46,713	25.6	15.82	41,059	5.6
2013	58,424	6,608,945	48,683	25.6	15.82	41,402	5.6
2014	59,271	7,131,776	51,702	25.3	15.82	41,242	4.4
2015	59,653	7,345,876	52,339	25.3	15.82	41,176	4.9
2016	59,753	7,440,708	52,989	25.8	15.82	41,490	5.2
2017	59,569	7,822,299	55,338	25.7	15.82	41,199	4.9
2018	59,903	8,286,315	58,438	26.2	15.82	42,038	4.3
2019	63,178	9,015,914	62,202	26.4	15.82	42,138	3.9
2020	64,051	9,840,004	67,385	26.2	15.82	42,295	4.5
2021	63,634	9,678,411	65,185	25.8	15.82	41,824	4.5

Notes:

(1) Town of Chapel Hill Department of Planning, Office of State Budget and Management

(2) U.S. Department of Commerce, Bureau of Economic Analysis. Data available for Orange County only. Most recent available census data.

(3) U.S. Department of Commerce, most recent available census data.

(4) Chapel Hill-Carrboro City Schools and The University of North Carolina at Chapel Hill.

(5) N.C. Employment Security Commission, Local Area Unemployment Statistics.

**ORANGE WATER AND SEWER AUTHORITY****Table 11****Miscellaneous Statistical Data**

Year Ended June 30, 2021

(Unaudited)

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<b>Year Founded and Incorporated</b>	1975
<b>Size of Service Area:</b>	
Square miles	31
Miles of water pipe	403
Miles of wastewater collection pipe	349
Customer accounts	21,921
<b>Budgeted Employee Positions</b>	135.0
<b>Water Treatment Plant Capacity (in MGD):</b>	
Capacity	20
Production average	6.2
Production peak	8.1
<b>Wastewater Treatment Plant Capacity (in MGD):</b>	
Capacity	14.5
Average daily flow	7.8
<b>Number of Water Supply Resources</b>	4
<b>Total Capacity of Water Supply Resources (millions of gallons):</b>	
Cane Creek Reservoir	3,000
University Lake	450
Quarry Reservoir	200
Jordan Lake Level II Allocation	5 MGD

Source: Orange Water and Sewer Authority's Records

**ORANGE WATER AND SEWER AUTHORITY**

**Table 12**

**Full-Time Equivalents (authorized)**

Last Ten Fiscal Years

(Unaudited)

<b>Department</b>	<b>Fiscal Year</b>									
	<b>2021</b>	<b>2020</b>	<b>2019</b>	<b>2018</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>	<b>2013</b>	<b>2012</b>
<b>General and Administrative:</b>										
Office of the Executive Director	7.00	7.00	7.00	6.00	5.50	5.50	5.50	6.50	7.00	6.00
Customer Service	9.00	9.00	9.00	9.00	9.00	9.00	9.00	7.50	7.50	6.50
Engineering	16.00	16.00	16.00	15.00	14.00	14.00	14.00	13.00	13.00	14.00
Human Resources	4.00	4.00	4.00	3.00	3.00	3.00	3.00	2.50	2.50	3.00
Finance	5.00	5.00	5.00	6.00	6.00	6.00	6.00	7.50	7.50	7.00
Information Technology	5.00	5.00	5.00	5.00	4.00	4.00	4.00	4.00	4.00	4.00
<b>Operations:</b>										
Water Supply and Treatment	25.00	25.00	25.00	26.00	25.50	25.50	25.50	26.50	25.00	25.00
Water Distribution	35.00	35.00	35.00	33.00	32.00	32.00	32.00	32.00	30.00	32.00
Wastewater Treatment	23.00	23.00	23.00	23.00	22.50	22.50	22.50	21.50	23.00	23.00
Sewer Collection	13.00	13.00	13.00	13.00	15.00	14.00	14.00	14.00	16.00	15.00
Totals	<u>142.00</u>	<u>142.00</u>	<u>142.00</u>	<u>139.00</u>	<u>136.50</u>	<u>135.50</u>	<u>135.50</u>	<u>135.00</u>	<u>135.50</u>	<u>135.50</u>

Source: Orange Water and Sewer Authority's Human Resource Department

# MARTIN STARNES

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## & ASSOCIATES, CPAs, P.A.

*"A Professional Association of Certified Public Accountants and Management Consultants"*

### **Report on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with *Government Auditing Standards***

#### **Independent Auditor's Report**

To the Board of Directors  
Orange Water and Sewer Authority  
Carrboro, North Carolina

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to the financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the business-type activities of the Orange Water and Sewer Authority (the "Authority"), a component unit of the Town of Chapel Hill, North Carolina, as of and for the years ended June 30, 2021 and 2020 and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements, and have issued our report thereon dated September 7, 2021.

#### **Internal Control Over Financial Reporting**

In planning and performing our audit of the financial statements, we considered the Authority's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control. Accordingly, we do not express an opinion on the effectiveness of the Authority's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected, on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.



## **Compliance and Other Matters**

As part of obtaining reasonable assurance about whether the Authority's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the financial statements. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

## **Purpose of This Report**

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

*Martin Starnes & Associates, CPAs, P.A.*

Martin Starnes & Associates, CPAs, P.A.  
Hickory, North Carolina  
September 7, 2021

# MARTIN STARNES & ASSOCIATES, CPAs, P.A.

*"A Professional Association of Certified Public Accountants and Management Consultants"*

## **Report on Compliance for Each Major State Program; Report on Internal Control Over Compliance; in Accordance with Uniform Guidance; and the State Single Audit Implementation Act**

### **Independent Auditor's Report**

To the Board of Directors  
Orange Water and Sewer Authority  
Carrboro, North Carolina

#### **Report on Compliance for Each Major State Program**

We have audited the Orange Water and Sewer Authority's compliance with the types of compliance requirements described in the *Audit Manual for Governmental Auditors in North Carolina*, issued by the Local Government Commission, that could have a direct and material effect on each of the Orange Water and Sewer Authority's major state programs for the year ended June 30, 2021. The Orange Water and Sewer Authority's major state program is identified in the summary of auditor's results section of the accompanying Schedule of Findings, Responses and Questioned Costs.

#### **Management's Responsibility**

Management is responsible for compliance with state statutes, regulations, and the terms and conditions of its state awards applicable to its state programs.

#### **Auditor's Responsibility**

Our responsibility is to express an opinion on compliance for each of the Orange Water and Sewer Authority's major state programs based on our audit of the types of compliance requirements referred to above. We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and applicable sections of Title 2 US Code of Federal Regulations Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), as described in the *Audit Manual for Governmental Auditors in North Carolina*, and the *State Single Audit Implementation Act*. Those standards, Uniform Guidance, and the State Single Audit Implementation Act require that we plan and perform the audit to obtain reasonable assurance about whether non-compliance with the types of compliance requirements referred to above that could have a direct and material effect on a major state program occurred. An audit includes examining, on a test basis, evidence about the Orange Water and Sewer Authority's compliance with those requirements and performing such other procedures, as we considered necessary in the circumstances.

We believe that our audit provides a reasonable basis for our opinion on compliance for each major state program. However, our audit does not provide a legal determination of the Orange Water and Sewer Authority's compliance.

### **Opinion on Each Major State Program**

In our opinion, the Orange Water and Sewer Authority complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on its major state program for the year ended June 30, 2021.

### **Report on Internal Control Over Compliance**

Management of the Orange Water and Sewer Authority is responsible for establishing and maintaining effective internal control over compliance with the types of compliance requirements referred to above. In planning and performing our audit of compliance, we considered the Orange Water and Sewer Authority's internal control over compliance with the types of requirements that could have a direct and material effect on each major state program to determine the types of auditing procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance for each major state program and to test and report on internal control over compliance in accordance with Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of the Orange Water and Sewer Authority's internal control over compliance.

*A deficiency in internal control over compliance* exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, non-compliance with a type of compliance requirement of a state program on a timely basis. *A material weakness in internal control over compliance* is a deficiency, or a combination of deficiencies, in internal control over compliance, such that there is a reasonable possibility that material non-compliance with a type of compliance requirement of a state program will not be prevented, or detected and corrected, on a timely basis. *A significant deficiency in internal control over compliance* is a deficiency, or combination of deficiencies, in internal control over compliance with a type of compliance requirement of a state program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance.

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be significant deficiencies or material weaknesses. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of Uniform Guidance. Accordingly, this report is not suitable for any other purpose.

*Martin Starnes & Associates, CPAs, P.A.*

Martin Starnes & Associates, CPAs, P.A.  
Hickory, North Carolina  
September 7, 2021

# ORANGE WATER AND SEWER AUTHORITY

## SCHEDULE OF FINDINGS, RESPONSES AND QUESTIONED COSTS FOR THE YEAR ENDED JUNE 30, 2021

### 1. Summary of Auditor's Results

#### Financial Statements

Type of auditor's report issued on whether the financial statements audited were prepared in accordance to GAAP:

Unmodified

Internal control over financial reporting:

- Material weakness(es) identified? \_\_\_\_\_ Yes   X   No
- Significant deficiency(ies) identified? \_\_\_\_\_ Yes   X   None reported

Non-compliance material to financial statements noted?

\_\_\_\_\_ Yes   X   No

#### State Awards

Internal control over major state programs:

- Material weakness(es) identified? \_\_\_\_\_ Yes   X   No
- Significant deficiency(ies) identified? \_\_\_\_\_ Yes   X   None reported

Type of auditor's report issued on compliance for major state programs:

Unmodified

Any audit findings disclosed that are required to be reported in accordance with the State Single Audit Implementation Act?

\_\_\_\_\_ Yes   X   No

Identification of major state programs:

State Reserve Loan

**ORANGE WATER AND SEWER AUTHORITY**

**SCHEDULE OF FINDINGS, RESPONSES AND QUESTIONED COSTS  
FOR THE YEAR ENDED JUNE 30, 2021**

**2. Findings Related to the Audit of the Basic Financial Statements**

None

**3. Findings Related to the Audit of State Awards**

None

**ORANGE WATER AND SEWER AUTHORITY**

**SCHEDULE OF PRIOR YEAR AUDIT FINDINGS  
FOR THE YEAR ENDED JUNE 30, 2021**

None reported.

**ORANGE WATER AND SEWER AUTHORITY**

**SCHEDULE OF EXPENDITURES OF FEDERAL AND STATE AWARDS  
FOR THE YEAR ENDED JUNE 30, 2021**

<u>Grantor/Pass-through Grantor/Program Title</u>	<u>Federal Assistance Listing Number</u>	<u>State/ Pass-through Grantor's Number</u>	<u>Federal (Direct &amp; Passed-through) Expenditures</u>	<u>State Expenditures</u>	<u>Passed Through To Subrecipients</u>
<b>Federal Grants:</b>					
<u>U.S. Environmental Protection Agency</u>					
Passed-through the N.C. Department of Environmental Quality:					
Division of Water Infrastructure:					
Drinking Water State Revolving Fund Cluster:					
Capitalization Grants for Drinking Water State Revolving Funds	66.468	WIF-1928	\$ 3,695	\$ -	\$ -
Capitalization Grants for Drinking Water State Revolving Funds	66.468	WIF-1981	677,427	-	-
Capitalization Grants for Drinking Water State Revolving Funds	66.468	WIF-1983	16,294	-	-
Total Drinking Water State Revolving Fund Cluster			<u>697,416</u>	<u>-</u>	<u>-</u>
Total U.S. Environmental Protection Agency			<u>697,416</u>	<u>-</u>	<u>-</u>
Total Federal Assistance			<u>\$ 697,416</u>	<u>\$ -</u>	<u>\$ -</u>
<u>N.C. Department of Environmental Quality</u>					
Division of Water Infrastructure:					
State Reserve Loan		H-SRP-D-17-0021	\$ -	\$ 386,894	\$ -
State Reserve Loan		E-SRP-W-17-0047	-	1,553,548	-
Total N.C. Department of Environmental Quality			<u>-</u>	<u>1,940,442</u>	<u>-</u>
Total State Assistance			<u>\$ -</u>	<u>\$ 1,940,442</u>	<u>\$ -</u>
Total Federal and State Assistance			<u>\$ 697,416</u>	<u>\$ 1,940,442</u>	<u>\$ -</u>

**Notes to the Schedule of Expenditures of Federal and State Awards:**

**1. Basis of Presentation**

The accompanying Schedule of Expenditures of Federal and State Awards (SEFSA) includes the federal and state grant activity of the Orange Water and Sewer Authority under the programs of the federal government and the State of North Carolina for the year ended June 30, 2021. The information in this SEFSA is presented in accordance with the requirements of Title 2 U.S. Code of Federal Regulations Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards and the State Single Audit Implementation Act. Because the schedule presents only a selected portion of the operations of the Orange Water and Sewer Authority, it is not intended to and does not present the financial position, changes in net position, or cash flows of the Orange Water and Sewer Authority.

**2. Summary of Significant Accounting Policies**

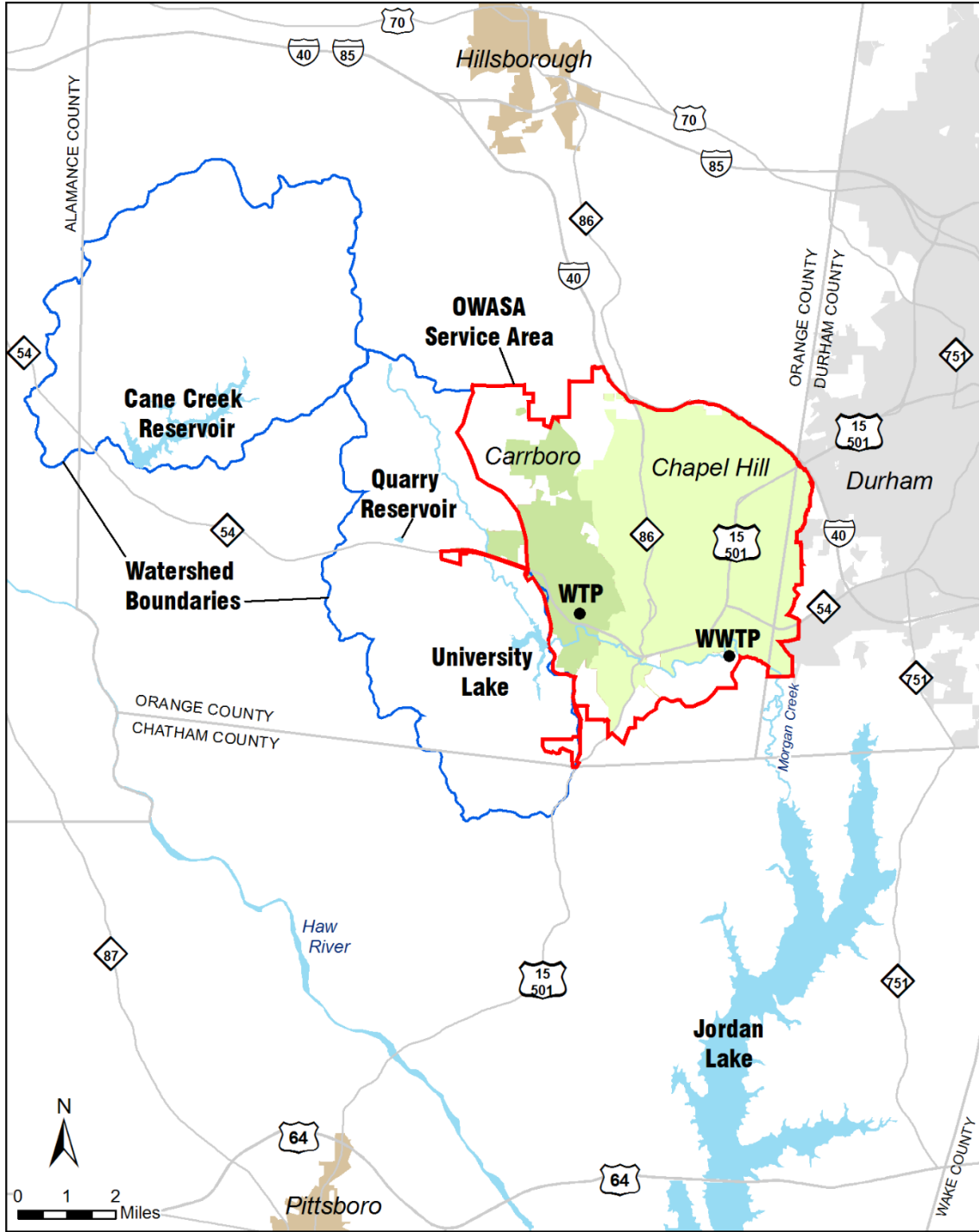
Expenditures reported in the SEFSA are reported on the modified accrual basis of accounting. Such expenditures are recognized following the cost principles contained in Uniform Guidance, wherein certain types of expenditures are not allowable or are limited as to reimbursement. Orange Water and Sewer Authority has elected not to use the 10-percent de minimus indirect cost rate as allowed under the Uniform Guidance.

**3. Loans Outstanding**

The Authority had the following loan balances outstanding at June 30, 2021 for loans that the grantor/pass-through grantor has still imposed continuing compliance requirements. Loans outstanding at the beginning of the year and loans made during the year are included in the SEFSA.

The balance of loans outstanding at June 30, 2021 consist of:

<u>Program Title</u>	<u>Federal Assistance Listing Number</u>	<u>Pass-Through Grantor's Number</u>	<u>Amount Outstanding</u>
Capitalization Grants for Drinking Water State Revolving Funds	66.468	WIF-1981	\$ 636,648
State Reserve Loan	N/A	H-SRP-D-17-0021	829,436



## Orange Water and Sewer Authority

OWASA is Carrboro-Chapel Hill's not-for-profit public service agency delivering high quality water, wastewater, and reclaimed water services.