



## Knoxville Utilities Board

# Consolidated

## Financial Statements and Supplemental Information June 30, 2016 and 2015

### KUB Board of Commissioners

Nikitia Thompson - Chair

Sara Hedstrom Pinnell - Vice Chair

Dr. Jerry W. Askew

Kathy Hamilton

Celeste Herbert

Eston Williams

John Worden

### Management

#### **Mintha Roach**

President and  
Chief Executive Officer

#### **Bill Elmore**

Executive Vice President and  
Chief Operating Officer

#### **Mark Walker**

Senior Vice President and  
Chief Financial Officer

#### **Susan Edwards**

Senior Vice President and  
Chief Administrative Officer

#### **Eddie Black**

Senior Vice President

#### **Mike Bolin**

Vice President

#### **Julie Childers**

Vice President

#### **Derwin Hagood**

Vice President

#### **Dawn Mosteit**

Vice President

#### **Paul Randolph**

Vice President

#### **Dennis Upton**

Vice President



# Knoxville Utilities Board

## Index

June 30, 2016 and 2015

---

	Page(s)
<b>Independent Auditors' Report</b> .....	1-2
Management's Discussion and Analysis .....	3-26
<b>Financial Statements</b>	
Consolidated Statements of Net Position .....	27-28
Consolidated Statements of Revenues, Expenses and Changes in Net Position .....	29
Consolidated Statements of Cash Flows.....	30
Notes to Consolidated Financial Statements.....	31-61
Required Supplementary Information – Schedule of Funding Progress .....	62
Required Supplementary Information – Schedule of Changes in Net Pension Liability and Related Ratios .....	63
Required Supplementary Information – Schedule of Employer Pension Contributions.....	64
<b>Supplemental Information</b>	
Schedule 1 – Schedule of Expenditures of Federal Awards and State Financial Assistance.....	65
Schedule 2 – Schedule of Findings and Questioned Costs .....	66
Schedule 3 – Schedule of Insurance in Force .....	67
<b>Report of Independent Auditors on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with <i>Government Auditing Standards</i></b> .....	68-69
<b>Report of Independent Auditors on Compliance for Each Major Program and on Internal Control over Compliance Required by the Uniform Guidance</b> .....	70-71



## Report of Independent Auditors

Board of Commissioners  
Knoxville Utilities Board  
Knoxville, Tennessee

We have audited the accompanying financial statements of the Knoxville Utilities Board (KUB), a component unit of the City of Knoxville, Tennessee, as of and for the years ended June 30, 2016 and 2015, and the related notes to the financial statements, which collectively comprise KUB's basic financial statements as listed in the index.

### 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 KUB'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 KUB'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 financial position of KUB as of June 30, 2016 and 2015, and the changes in financial position and cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Board of Commissioners  
Knoxville Utilities Board  
Knoxville, Tennessee

## **Other Matters**

### *Required Supplementary Information*

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis on pages 3 through 26 and the required supplementary information on pages 62 through 64 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 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.

### *Other Information*

Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise KUB's basic financial statements. The schedule of insurance in force is presented for purposes of additional analysis and is not a required part of the basic financial statements. The schedule of expenditures of federal awards and state financial assistance is presented for purposes of additional analysis 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 of Tennessee Comptroller of the Treasury Office and is also not a required part of the basic financial statements.

The schedule of expenditures of federal awards and state financial assistance is the responsibility of management and was 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 schedule of expenditures of federal awards and state financial assistance is fairly stated in all material respects in relation to the basic financial statements as a whole.

The schedule of insurance in force has 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 any assurance on it.

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

In accordance with *Government Auditing Standards*, we have also issued our report dated October 27, 2016, on our consideration of KUB'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 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 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 KUB's internal control over financial reporting and compliance.

*Coulter & Justus, P.C.*

Knoxville, Tennessee  
October 27, 2016

# **Knoxville Utilities Board**

## **Management's Discussion and Analysis**

### **June 30, 2016 and 2015**

---

Knoxville Utilities Board (KUB), comprised of the Electric Division, Gas Division, Water Division, and Wastewater Division (Divisions), is reported as a component unit enterprise fund in the financial statements of the City of Knoxville. KUB's responsibility is to oversee the purchase, production, distribution, and processing of electricity, natural gas, water, and wastewater services. A seven-member Board of Commissioners (Board) governs KUB. The Board has all powers to construct, acquire, expand, and operate the Divisions. It has full control and complete jurisdiction over the management and operation of the Divisions, including setting rates. KUB's accounts are maintained in conformity with the Uniform System of Accounts of the Federal Energy Regulatory Commission (FERC), the Uniform System of Accounts of the National Association of Regulatory Utility Commissioners (NARUC), and the Governmental Accounting Standards Board (GASB), as applicable.

This discussion and analysis is designed to (a) assist the reader in focusing on significant financial issues, (b) provide an overview of KUB's financial activity, (c) identify major changes in KUB's financial position, and (d) identify any financial concerns.

The Management Discussion and Analysis (MD&A) focuses on the fiscal year ending June 30, 2016 activities, resulting changes and current known facts, and should be read in conjunction with KUB's consolidated financial statements.

## **Consolidated Highlights**

### **System Highlights**

As of June 30, 2016, KUB served 451,896 customers. KUB added 3,951 new customers in fiscal year 2016, representing growth of less than one percent.

KUB's electric system experienced a record peak in demand of 1,328 megawatt hours in February 2015. KUB's electric system had a strong year for reliability with only 1.82 hours of service interruption for the average customer in fiscal year 2016. The natural gas system's peak demand occurred February 2015 at 136,356 dekatherms.

The second of three annual rate increases for each Division previously adopted by the KUB Board of Commissioners went into effect in fiscal year 2016. These rate increases provide additional revenue to help fund each system's respective Century II infrastructure program.

KUB's electric system was impacted by an ice storm event in February 2015 that resulted in a cost of \$2 million to the system. KUB received \$1.6 million in reimbursements in fiscal year 2016 from the Federal Emergency Management Agency (FEMA) to offset the cost of the 2015 event.

KUB's electric system was awarded the Diamond level designation by the American Public Power Association's (APPA) Reliable Public Power Provider (RP3) program, the highest level of recognition of the program.

KUB's energy sales in fiscal year 2016 were impacted by the second mildest winter in Knoxville over the last forty years. Natural gas sales dropped approximately 10 percent from the prior year and electric sales volumes declined approximately 3 percent.

KUB's treatment plants continue to meet high standards of operation. KUB's Kuwahee, Eastbridge, Loves Creek and Fourth Creek wastewater treatment plants were awarded Operational Excellence awards from the Tennessee Kentucky Water Environment Association for having one or less permit violations within the 2015 calendar year. The treatment plants additionally won awards at various levels based on performance from the National Association of Clean Water Agencies for peak performance. The

# **Knoxville Utilities Board**

## **Management's Discussion and Analysis**

### **June 30, 2016 and 2015**

---

Eastbridge wastewater treatment plant was awarded a Platinum award for continued outstanding compliance performance over multiple years. Kuwahee and Loves Creek wastewater treatment plants won Gold Awards for having no permit violations in 2015 and the Fourth Creek wastewater treatment plant was awarded Silver for having only one permit violation in 2015.

KUB continued to maintain certification with the National Biosolids Partnership following a rigorous review process and independent audit that was conducted in December 2015. (Biosolids are nutrient-rich organic matter produced by wastewater treatment that can be recycled as fertilizer).

### **Century II Infrastructure Program**

Century II is KUB's proactive long-range program to improve and maintain the electric, natural gas, water and wastewater systems for its customers. It includes maintenance and asset replacement strategies for each system and establishes sustainable replacement cycles. Century II moves KUB into its second century of service by improving each system through sound planning, resource allocation, and continued, but accelerated, investment.

KUB's Century II programs were resumed in 2011, after a break due to the economic recession. At that time, the KUB Board of Commissioners endorsed ten year funding plans for the electric and water systems, which include a combination of rate increases and debt issues to fully fund the Century II programs. The Board adopted three years of electric and water rate increases to help fund those plans. All three of those rate increases, adopted in 2011, have gone into effect.

In 2013, the Board extended the funding approach for Century II to include the natural gas and wastewater systems. The Board formally endorsed and adopted by resolution, ten year funding plans for the natural gas and wastewater systems, which include a combination of rate increases and debt issues.

In April 2014, KUB management provided the Board an updated assessment of the overall condition of each utility system, including a recommendation for annual rate increases for each division for the next three fiscal years.

In June 2014, the Board approved the proposed three annual rate increases for all KUB Divisions, of which the first and second rate increases have gone into effect. The remaining electric rate increase will generate \$5.2 million in additional annual revenue, while the gas rate increase will generate \$1.8 million in additional annual revenue. The remaining water rate increase will produce \$2 million in additional annual revenue and wastewater will produce \$4.7 million of additional annual sales revenues.

In fiscal year 2015, KUB concluded the smart grid pilot project, of which a portion of the project was funded by a United States Department of Energy Smart Grid Investment Grant (SGIG). This grant was received by KUB in 2009 as part of the American Reinvestment and Recovery Act (ARRA). Based upon the success of that pilot, KUB formed a plan to move forward with a Century II Grid Modernization initiative, which includes advanced metering for all KUB customers, a telecommunication system linking critical KUB infrastructure, and an increased investment in automation technology to help operate KUB's energy and water distribution systems.

KUB is in the process of implementing a 15-year initiative to ensure KUB will continue to provide high-quality, reliable water service to its customers over the long-term. KUB maintains a single water treatment plant for its system. In lieu of building a second treatment facility to ensure capacity will be available to meet the needs of current and future water customers, KUB will invest approximately \$120 million in various redundant facilities at its existing Mark B. Whitaker Water Treatment Plant over the next 11 years.

For the fiscal year, KUB stayed on track with its overall Century II capital budget and production goals. 2,208 poles and 13.3 miles of underground electric cable were replaced for the electric system. 4.2 miles

# **Knoxville Utilities Board**

## **Management's Discussion and Analysis**

### **June 30, 2016 and 2015**

---

of cast iron/ductile iron gas main were replaced for the natural gas system. 14.3 miles of galvanized water main and 7.2 miles of cast iron water main were replaced for the water system. 28 miles of wastewater system main were rehabilitated or replaced.

The natural gas South Loop project was completed in October 2015, which included the installation of a new 8 mile transmission main in the southwest portion of KUB's service territory. The South Loop will provide additional system capacity to meet the increased natural gas demands of the University of Tennessee, in addition to other potential growth opportunities in that portion of KUB's gas service territory.

### **Consent Decree**

In February 2005, a Consent Decree was entered into federal court regarding the operation of KUB's wastewater system. Under the terms of the Consent Decree, the remediation of identified sanitary sewer overflows (SSOs) on KUB's wastewater system had to be completed by June 30, 2016. KUB completed all the requirements of the Consent Decree for the collection system two years in advance of the deadline.

The Consent Decree also required KUB to perform an evaluation of the wet weather performance and capacity of its wastewater treatment plants. In July 2007, KUB submitted a Composite Correction Plan (CCP) for its wastewater treatment plants to EPA for review. The development and filing of the CCP was a requirement of the federal order of February 2005. The CCP includes recommended improvements to KUB's Kuwahee and Fourth Creek treatment plants to address wet weather capacity issues noted in prior assessments. The EPA approved the CCP in January 2009 including a recommended schedule of plant improvements that extends beyond the expiration date of the original Consent Decree. An amendment to the Consent Decree incorporating and establishing this schedule was agreed to by all parties and was entered on June 23, 2009. The purpose of the Amendment is to allow KUB to complete a portion of work outlined in the CCP after the Consent Decree deadline of June 30, 2016. The CCP provides for a biologically enhanced high-rate clarification (the BEHRC) secondary treatment system to be installed at the Fourth Creek treatment plant by June 30, 2018 and at the Kuwahee treatment plant by June 30, 2021. The total cost of such improvements is estimated to be approximately \$120 million.

KUB's funding plan for the Consent Decree includes long-term bonds and a series of rate increases phased in over the term of the order. Bond proceeds fund all types of wastewater capital projects, the majority of which are related to the Consent Decree. As of June 30, 2016, the Wastewater Division had issued \$485 million in bonds to fund system capital improvements since the inception of the Consent Decree. The Board previously approved two 50 percent rate increases, which went into effect in April 2005 and January 2007. The Board also approved an 8 percent rate increase, which was effective in September 2008, two 12 percent rate increases, which were effective in April 2011 and October 2012, and three 6 percent rate increases effective October 2014, October 2015 and October 2016. KUB anticipates additional bond issues and rate increases over the next decade to help fund wastewater capital improvements.

KUB successfully completed the first cycle of Maintenance Operation Management (MOM) requirements one year before the deadline by inspecting 99.5% of manholes and gravity mains, smoke testing 99.9% of gravity mains, performing required inspections of pump stations and the related force mains, and completing all Corrective Action Plan/Engineering Report (CAP/ER) projects. KUB initiated the second MOM cycle that continues to focus on the prevention of SSOs. As part of the Century II initiative, formally known as the PACE10 program, KUB has installed storage tanks providing 34 million gallons of wastewater storage to control wet weather overflows and rehabilitated or replaced approximately 334.9 miles of collection system pipe. KUB also continues to maintain a proactive operations and maintenance plan for the wastewater collection system including inspection, grease control, and private lateral enforcement. The result of the PACE10/Century II initiative has been an 82 percent reduction in SSOs.

# **Knoxville Utilities Board**

## **Management's Discussion and Analysis**

### **June 30, 2016 and 2015**

---

As of June 30, 2016, the Wastewater Division had completed its twelfth full year under the Consent Decree, spending \$529.5 million on capital investments to meet Consent Decree requirements. During fiscal year 2016, the Wastewater Division incurred \$37.3 million in total expenditures related to Consent Decree requirements, including \$3.3 million for operating costs and \$34 million in capital improvements which included the rehabilitation or replacement of 28 miles of wastewater main. During the fiscal year, \$26.5 million was spent on sewer mini-basin rehabilitation and replacement. Trunk line rehabilitation and replacement accounted for \$2 million of capital expenditures, while pump station improvements accounted for \$4.6 million.

## **Financial Highlights**

### ***Fiscal Year 2016 Compared to Fiscal Year 2015***

KUB's consolidated net position increased \$34 million. This increase was \$2 million less than the prior year's change in net position. A restatement to the fiscal year 2014's net position based on a change in method of accounting for the pension reduced the total net position by \$0.8 million during fiscal year 2015. This change resulted in a net increase of \$35.2 million or 3.9 percent in KUB's consolidated net position in fiscal year 2015.

Operating revenue decreased \$30.3 million or 4 percent, the result of lower electric and natural gas sales volumes offset in part by additional revenues from system rate increases and a modest increase in billed water sales and wastewater volumes. Purchased energy expense (power and natural gas) decreased \$39.9 million or 8.3 percent, the combined effect of \$17.4 million decrease in purchased power and a decrease of \$22.5 million in purchased gas. Margin from sales (operating revenue less purchased energy expense) was up \$9.5 million or 3.3 percent compared with the prior fiscal year.

Operating expenses (excluding purchased power and purchased gas expense) increased \$9.6 million, or 4.5 percent. Operating and maintenance (O&M) expenses were \$1.2 million or one percent higher than the previous year. Depreciation expense increased \$6.7 million or 10.8 percent. Taxes and tax equivalents increased \$1.8 million or 6 percent, reflecting higher plant in service levels.

Interest income was \$0.5 million more than the prior fiscal year. Interest expense increased \$1.2 million or 3.1 percent, reflecting interest costs on revenue bonds issued during fiscal year 2015 to fund system capital improvements.

Capital contributions increased \$0.6 million, the result of more contributed assets from developers.

Total plant assets (net) increased \$92 million or 5.6 percent over the last fiscal year.

Long-term debt represented 50.4 percent of KUB's consolidated capital structure, compared to 52 percent last fiscal year. Capital structure equals long-term debt (including the current and long-term portion of revenue bonds and notes), plus net position.

### ***Fiscal Year 2015 Compared to Fiscal Year 2014***

KUB's consolidated net position increased \$36 million. This increase was \$6.2 million greater than the prior year's change in net position. A restatement to the prior fiscal year's net position based on a change in method of accounting for the pension reduced the total net position by \$0.8 million during fiscal year 2015. This change resulted in a net increase of \$35.2 million or 3.9 percent in KUB's consolidated net position.

Operating revenue increased \$12 million or 1.6 percent, the result of additional revenue from electric, gas, water, and wastewater rate increases and modest increases in natural gas, water, and wastewater

# **Knoxville Utilities Board**

## **Management's Discussion and Analysis**

### **June 30, 2016 and 2015**

---

sales volumes. Purchased energy expense (power and natural gas) decreased \$4.9 million or 1 percent, the net effect of \$0.7 million increase in purchased power and a decrease of \$5.6 million in purchased gas. Margin from sales (operating revenue less purchased energy expense) was up \$16.9 million or 6.3 percent compared with the prior fiscal year.

Operating expenses (excluding purchased power and purchased gas expense) increased \$12 million, or 5.9 percent. Operating and maintenance (O&M) expenses were \$3.6 million or 3 percent higher than the previous year. Depreciation expense increased \$5.8 million or 10.4 percent. Taxes and tax equivalents increased \$2.6 million or 9.4 percent, reflecting higher plant in service levels and a property tax increase by the City of Knoxville.

Interest income was consistent with the prior fiscal year. Interest expense increased \$0.9 million or 2.5 percent, reflecting interest costs on \$163 million in revenue bonds issued during the fiscal year to fund system capital improvements.

Capital contributions decreased \$0.1 million, the result of less contributed assets from developers.

Total plant assets (net) increased \$102.3 million or 6.6 percent over the last fiscal year.

KUB sold six series of revenue bonds during fiscal year 2015 for the purpose of funding capital improvements totaling \$163 million. The \$85 million bond issue in April 2015 was accelerated to take advantage of the low interest rate environment which impacted the debt ratio and debt service coverage levels for fiscal year 2015. Long-term debt represented 52 percent of KUB's capital structure, compared to 49.2 percent last year. Capital structure equals long-term debt (including the current and long-term portion of revenue bonds and notes), plus net position.

*(Space left intentionally blank)*

**Knoxville Utilities Board  
Management's Discussion and Analysis  
June 30, 2016 and 2015**

---

**Knoxville Utilities Board Consolidated Financial Statements**

KUB's financial performance is reported under three basic consolidated financial statements: the Statement of Net Position; the Statement of Revenues, Expenses and Changes in Net Position; and the Statement of Cash Flows.

**Statement of Net Position**

KUB reports its assets, deferred outflows of resources, liabilities, deferred inflows of resources and net position in the Statement of Net Position. Assets are classified as current, restricted, plant in service, or other assets.

Liabilities are classified as current, other, or long-term debt. Net position is classified as net investment in capital assets; restricted; or unrestricted. Net position tells the user what KUB has done with its accumulated earnings, not just the balance.

Net investment in capital assets reflects the book value of all capital assets less the outstanding balances of debt used to acquire, construct, or improve those assets.

Restricted net position includes assets that have been limited to specific uses by KUB's bond covenants or through resolutions passed by the KUB Board.

Unrestricted net position is a residual classification; the amount remaining after reporting net position as either invested in capital or restricted is reported there.

**Statement of Revenues, Expenses and Changes in Net Position**

KUB reports its revenues and expenses (both operating and non-operating) on the Statement of Revenues, Expenses and Changes in Net Position. In addition, any capital contributions or assets donated by developers are reported on this statement.

Total revenue less total expense equals the change in net position for the reporting period. Net position at the beginning of the period is increased or decreased, as applicable, by the change in net position for the reporting period.

The change in net position for the reporting period is added to the net position segment of the Statement of Net Position.

**Statement of Cash Flows**

KUB reports cash flows from operating activities, capital and related financing activities, and investing activities on the Statement of Cash Flows. This statement tells the user the sources and uses of cash during the reporting period.

The statement indicates the beginning cash balance and ending cash balance and how it was either increased or decreased during the reporting period.

The statement also reconciles cash flow to operating income as it appears on the Statement of Revenues, Expenses and Changes in Net Position.

**Knoxville Utilities Board**  
**Management's Discussion and Analysis**  
**June 30, 2016 and 2015**

---

**Condensed Financial Statements**

**Statement of Net Position**

The following table reflects the condensed consolidated Statement of Net Position for KUB compared to the prior year and the year preceding the prior year.

**Statements of Net Position**  
**As of June 30**

<i>(in thousands of dollars)</i>	<b>2016</b>	<b>2015</b>	<b>2014</b>
Current, restricted and other assets	\$ 318,650	\$ 413,061	\$ 347,698
Capital assets, net	1,743,105	1,651,147	1,548,874
Deferred outflows of resources	34,235	28,388	12,252
Total assets and deferred outflows of resources	<u>2,095,990</u>	<u>2,092,596</u>	<u>1,908,824</u>
Current and other liabilities	159,519	152,535	161,523
Long-term debt outstanding	972,366	1,005,062	853,887
Deferred inflows of resources	1,512	6,378	-
Total liabilities and deferred inflows of resources	<u>1,133,397</u>	<u>1,163,975</u>	<u>1,015,410</u>
Net position			
Net investment in capital assets	772,012	650,464	688,374
Restricted	16,201	14,892	13,163
Unrestricted	174,380	263,265	191,877
Total net position	<u>\$ 962,593</u>	<u>\$ 928,621</u>	<u>\$ 893,414</u>

**Normal Impacts on Statement of Net Position**

The following is a description of activities which will normally impact the comparability of the Statement of Net Position presentation.

- Change in net position (from Statement of Revenues, Expenses and Changes in Net Position): impacts (increase/decrease) current and other assets and/or capital assets and unrestricted net position.
- Issuing debt for capital: increases deferred outflows of resources and long-term debt.
- Spending debt proceeds on new capital: reduces current assets and increases capital assets.
- Spending of non-debt related current assets on new capital: (a) reduces current assets and increases capital assets and (b) reduces unrestricted net position and increases net investment in capital assets.
- Principal payment on debt: (a) reduces current and other assets and reduces long-term debt and (b) reduces unrestricted net position and increases net investment in capital assets.
- Reduction of capital assets through depreciation: reduces capital assets and net investment in capital assets.

**Knoxville Utilities Board  
Management's Discussion and Analysis  
June 30, 2016 and 2015**

---

**Impacts and Analysis**

**Current, Restricted and Other Assets**

***Fiscal Year 2016 Compared to Fiscal Year 2015***

Current, restricted and other assets decreased \$94.4 million or 22.9 percent. The decrease was primarily attributable to the utilization of \$46.1 million in bond proceeds to fund system capital projects. General fund cash (including cash and cash equivalents, short-term investments, and long-term investments) decreased \$45.9 million. The net pension asset decreased \$6 million due to the recognition of a net pension liability of \$5 million during fiscal year 2016. Accounts receivable decreased \$4.9 million. Gas storage decreased \$1.4 million, reflecting lower commodity prices for natural gas for slightly higher storage volumes compared to the prior fiscal year.

These decreases were offset by an increase in inventories of \$2.1 million and an increase of \$4.6 million in operating contingency reserves. KUB under recovered its wholesale gas costs by \$2.2 million in fiscal year 2016 compared to a \$1.1 million over recovery in fiscal year 2015. The under recovery of costs will be collected from customers next fiscal year through adjustments to rates via the Purchased Gas Adjustment. Another offset to the decrease was the under recovery of \$1.4 million in purchased power costs from electric system customers through its Purchased Power Adjustment mechanism in fiscal year 2016, as compared to a \$0.5 million over recovery in fiscal year 2015. This under recovery of costs will be collected from customers next fiscal year through adjustments to rates via the Purchased Power Adjustment.

***Fiscal Year 2015 Compared to Fiscal Year 2014***

Current, restricted and other assets increased \$65.4 million or 18.8 percent. The increase was primarily attributable to a \$45 million increase in unused bond proceeds. General fund cash (including cash and cash equivalents, short-term investments, and long-term investments) increased \$11.8 million. Operating contingency reserves increased \$7.8 million. Due to the adoption of a new accounting standard, GASB 68 (See Notes to the Financial Statements), the net pension asset increased \$6 million. These increases were partially offset by a \$3.5 million decline in other assets, \$1.1 million decrease in prepaid expenses, a \$0.8 million decrease in gas in storage, and a decrease in inventories of \$0.7 million.

**Capital Assets**

***Fiscal Year 2016 Compared to Fiscal Year 2015***

Capital assets (net) increased \$92 million or 5.6 percent. Major capital expenditures (reflected in both plant additions and work in progress) in fiscal year 2016 included \$32.6 million related to wastewater Century II projects, \$25.1 million for various electric distribution system improvements, \$15.1 million for installation of new gas main and service extensions, \$13.5 million for main replacement for the water system, \$8.4 million for upgrades to various information systems, \$8.4 million for utility asset replacements and relocations to accommodate Tennessee Department of Transportation (TDOT) highway improvement projects and \$7.5 million for water plant and system improvements.

*(Space left intentionally blank)*

**Knoxville Utilities Board  
Management's Discussion and Analysis  
June 30, 2016 and 2015**

***Fiscal Year 2015 Compared to Fiscal Year 2014***

Capital assets (net) increased \$102.3 million or 6.6 percent. Major plant expenditures (reflected in both plant additions and work in progress) during fiscal year 2015 included \$28.7 million for various electric distribution system improvements, \$25.3 million for Century II projects for the wastewater collection system, \$12.5 million for water main replacement, \$8.4 million for information system upgrades, \$7.8 million for water plant and system improvements, \$6 million for gas main replacement and \$6 million for pole replacements for the electric system.

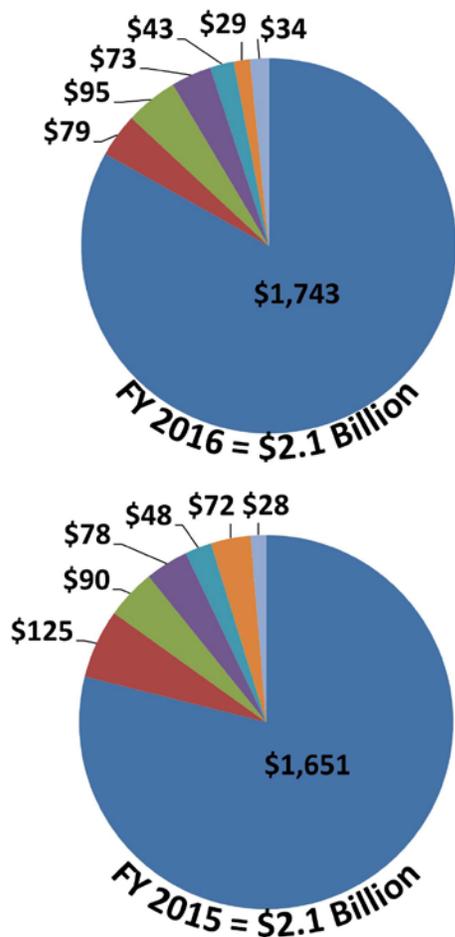
**Deferred Outflows of Resources**

***Fiscal Year 2016 Compared to Fiscal Year 2015***

Deferred outflows of resources increased \$5.8 million compared to the prior year, reflecting an increase in pension outflow of \$7.2 million and a \$1.4 million decrease in unamortized bonds refunding costs when compared to the prior fiscal year.

***Fiscal Year 2015 Compared to Fiscal Year 2014***

Deferred outflows of resources increased \$16.1 million compared to the prior year, reflecting amortization of deferred losses on bonds refunded during the fiscal year.



**Consolidated Total Assets and  
Deferred Outflows of Resources  
(in Millions)**

	<u>FY16</u>	<u>FY15</u>
Plant	83%	79%
General Fund	4%	6%
Contingency Fund	5%	4%
Accounts Receivable	3%	4%
Other Assets	2%	2%
Restricted Assets	1%	4%
Deferred Outflows of Resources	2%	1%

# **Knoxville Utilities Board**

## **Management's Discussion and Analysis**

### **June 30, 2016 and 2015**

---

#### **Current and Other Liabilities**

##### ***Fiscal Year 2016 Compared to Fiscal Year 2015***

Current and other liabilities increased \$7 million or 4.6 percent. This was primarily due to an actuarially determined net pension obligation of \$5 million recognized during fiscal year 2016. The current portion of revenue bonds increased \$1.2 million and accrued interest on revenue bonds increased \$1.5 million. Accrued expenses were \$1.9 million higher than the prior fiscal year.

The increases were offset by the reductions to the over recovered purchased power cost and over recovered purchased gas cost liabilities of \$0.5 million and \$1.1 million, respectively. The over recoveries of cost were flowed back to KUB's electric and gas customers during fiscal year 2016 through adjustments to rates via the Purchased Power Adjustment and Purchased Gas Adjustment.

##### ***Fiscal Year 2015 Compared to Fiscal Year 2014***

Current and other liabilities decreased \$9 million or 5.6 percent. KUB over recovered \$1.1 million in wholesale gas costs from its customers in fiscal year 2015, as compared to a \$1.3 million over recovery in fiscal year 2014. Over recovery of purchased power expenses decreased \$3.9 million in fiscal year 2015. The over recovery of purchased power and gas costs will be refunded to KUB's electric and gas customers through future adjustments to electric and gas rates via the Purchased Power Adjustment and Purchased Gas Adjustment, respectively. Accrued expenses decreased \$7.5 million and accounts payable decreased \$2.5 million. This decrease was partially offset by an increase in the current portion of debt related to bonds of \$4.1 million.

#### **Long-term Debt**

##### ***Fiscal Year 2016 Compared to Fiscal Year 2015***

Long-term debt decreased \$32.7 million or 3.3 percent. The decrease was primarily due to \$31.1 million of long-term bond debt that shifted to current liabilities as payable within the next year. During the fiscal year, \$29.8 million of bond debt was repaid.

##### ***Fiscal Year 2015 Compared to Fiscal Year 2014***

Long-term debt increased \$151.2 million or 17.7 percent. During the fiscal year, \$26.2 million of bond debt was repaid. During the fiscal year, KUB issued \$163 million in revenue bonds to fund capital improvements for the electric, water and wastewater systems. The increase was partially offset by the scheduled repayment of bond debt.

#### **Deferred Inflows of Resources**

##### ***Fiscal Year 2016 Compared to Fiscal Year 2015***

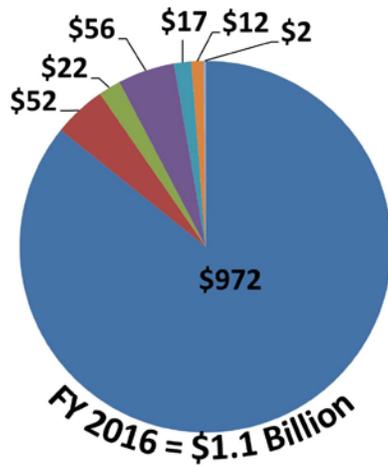
Deferred inflows decreased \$4.9 million compared to the prior fiscal year due to differences in pension inflows.

##### ***Fiscal Year 2015 Compared to Fiscal Year 2014***

Deferred inflows increased \$6.4 million compared to the prior fiscal year due to the addition of pension inflow.

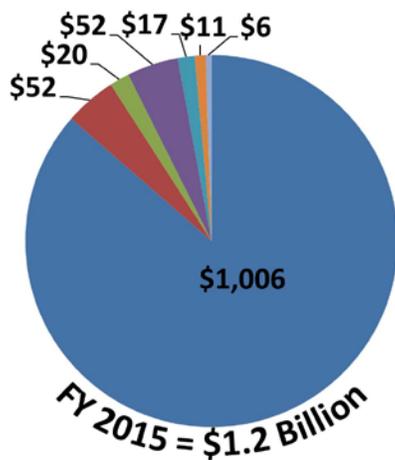
**Knoxville Utilities Board**  
**Management's Discussion and Analysis**  
**June 30, 2016 and 2015**

---



**Consolidated Total Liabilities and Deferred Inflows of Resources (in Millions)**

	<u>FY16</u>	<u>FY15</u>
■ Bond Debt	86%	86%
■ Payables	4%	4%
■ Misc Current	2%	2%
■ Other Liabilities	5%	5%
■ Customer Deposits	2%	1%
■ Interest Accrued	1%	1%
■ Deferred Inflows of Resources	<1%	1%



**Net Position**

***Fiscal Year 2016 Compared to Fiscal Year 2015***

Net position increased by \$34 million in fiscal year 2016. Net investment in capital assets increased \$121.5 million or 18.7 percent, the result of net capital assets increasing \$92 million and a \$32.7 million decrease in long term debt. Restricted net position increased \$1.3 million compared to the prior year. Unrestricted net position decreased \$88.9 million or 33.8 percent compared to the previous fiscal year, reflecting a decrease in unused bond proceeds and general fund cash.

***Fiscal Year 2015 Compared to Fiscal Year 2014***

Net position increased by \$35.2 million in fiscal year 2015. Net investment in capital assets decreased \$37.9 million or 5.5 percent, the net result of net capital assets increasing \$102.3 million offset by the \$137.4 million increase in long term debt from new bond issuances. Restricted net position increased \$1.7 million compared to the prior year. Unrestricted net position increased \$71.4 million or 37.2 percent compared to the previous fiscal year, reflecting increased unused bond proceeds and general fund cash.

**Knoxville Utilities Board**  
**Management's Discussion and Analysis**  
**June 30, 2016 and 2015**

---

**Statement of Revenues, Expenses and Changes in Net Position**

The following table reflects the condensed consolidated Statement of Revenues, Expenses and Changes in Net Position for KUB compared to the prior year and the year preceding the prior year.

**Statements of Revenues, Expenses and Changes in Net Position**  
**For the Years Ended June 30**

<i>(in thousands of dollars)</i>	<b>2016</b>	<b>2015</b>	<b>2014</b>
Operating revenues	\$ 733,362	\$ 763,704	\$ 751,710
Less: Purchased energy expense	439,301	479,166	484,074
Margin from sales	<u>294,061</u>	<u>284,538</u>	<u>267,636</u>
Operating expenses			
Treatment	16,618	15,319	14,038
Distribution and collection	59,536	62,319	60,100
Customer service	13,893	13,725	12,607
Administrative and general	33,239	30,741	31,747
Depreciation	68,370	61,708	55,885
Taxes and tax equivalents	31,440	29,649	27,097
Total operating expenses	<u>223,096</u>	<u>213,461</u>	<u>201,474</u>
Operating income	70,965	71,077	66,162
Interest income	1,388	917	852
Interest expense	(39,143)	(37,968)	(37,033)
Other income/(expense)	(408)	1,340	(948)
Change in net position before capital contributions	<u>32,802</u>	<u>35,366</u>	<u>29,033</u>
Capital contributions	1,170	606	736
Change in net position	<u>\$ 33,972</u>	<u>\$ 35,972</u>	<u>\$ 29,769</u>

**Normal Impacts on Statement of Revenues, Expenses and Changes in Net Position**

The following is a description of activities which will normally impact the comparability of the Statement of Revenues, Expenses and Changes in Net Position presentation.

- Operating revenue is largely determined by volume of sales for the fiscal year. Any change (increase/decrease) in retail rates would also be a cause of change in operating revenue.
- Purchased energy expense is determined by volume of power purchases from TVA and volume of natural gas purchases for the fiscal year. Also, any change (increase/decrease) in wholesale power and/or gas rates would result in a change in purchased energy expense.
- Operating expenses (distribution, customer service, administrative and general) are normally impacted by changes in areas including, but not limited to, labor cost (staffing, wage rates), active employee and retiree medical expenses, and system maintenance.
- Depreciation expense is impacted by plant additions and retirements during the fiscal year.
- Taxes and equivalents are impacted by plant additions/retirements, changes in property tax rates, and gross margin levels.

# **Knoxville Utilities Board**

## **Management's Discussion and Analysis**

### **June 30, 2016 and 2015**

---

- Interest income is impacted by level of interest rates and investments.
- Interest expense on debt is impacted by level of outstanding debt and the interest rate(s) on the outstanding debt.
- Other income/(expenses) is impacted by miscellaneous non-operating revenues and expenses.
- Capital contributions are impacted by a donation of facilities/infrastructure to KUB by developers and governmental agencies. The contributions are recognized as revenue and recorded as plant in service based on the fair market value of the asset(s).

## **Impacts and Analysis**

### **Change in Net Position**

#### ***Fiscal Year 2016 Compared to Fiscal Year 2015***

KUB's consolidated net position increased \$34 million. This increase was \$2 million less than the prior year's change in net position. A restatement to the fiscal year 2014's net position based on a change in method of accounting for pension expense reduced the total net position by \$0.8 million during fiscal year 2015.

#### ***Fiscal Year 2015 Compared to Fiscal Year 2014***

KUB's consolidated net position increased \$36 million. This increase was \$6.2 million greater than the prior year's change in net position. A restatement to the prior fiscal year's net position based on a change in method of accounting for pension expense reduced the total net position by \$0.8 million during fiscal year 2015. This change resulted in a net increase of \$35.2 million or 3.9 percent in KUB's consolidated net position.

*(Space left intentionally blank)*

# **Knoxville Utilities Board**

## **Management's Discussion and Analysis**

### **June 30, 2016 and 2015**

---

## **Margin from Sales**

### ***Fiscal Year 2016 Compared to Fiscal Year 2015***

Operating revenue was \$30.3 million or 4 percent lower than the previous fiscal year. Sales in both the Electric and Gas Divisions were impacted by the second mildest winter in the last forty years. Electric Division operating revenue decreased \$12.2 million due to the net effect of additional revenue from KUB's one percent electric rate increase, a 3.1 percent decline in total power sales, the flow through of TVA rate adjustments and the flow through of prior year over recovered purchased power costs to electric customers. Gas Division revenue decreased \$25.7 million for the fiscal year, the net result of 10.2 percent lower billed sales due to the warmer winter, lower purchased gas commodity prices flowed through to customer rates and additional revenue generated from rate increases. Water Division revenue increased \$3.1 million, the result of additional revenue from the water rate increases and a 0.8 percent increase in water sales volumes. Wastewater Division revenue was \$4.4 million higher than the previous year due to additional revenue from wastewater rate increases, as well as a 1.1 percent increase in wastewater billed volumes.

Wholesale energy expense decreased \$39.9 million or 8.3 percent. Purchased power expense decreased \$17.4 million compared to last year, due to lower customer demand. Purchased gas expense was \$22.5 million lower due to less customer demand and reduced commodity prices for natural gas during the fiscal year.

Margin from sales (operating revenue less purchased energy expense) increased \$9.5 million compared to the previous year. The increase reflects additional revenue from the electric, natural gas, water, and wastewater rate increases offset by lower electric and natural gas sales volumes.

### ***Fiscal Year 2015 Compared to Fiscal Year 2014***

Operating revenue was \$12 million or 1.6 percent higher than the previous fiscal year. Electric Division operating revenue increased \$5.9 million, the net result of additional revenue from KUB's electric rate increases, the flow through of TVA rate adjustments and the flow through of prior year over recovered purchased power costs. Gas Division revenue decreased \$3 million for the fiscal year, the net result of additional revenue from rate increases effective October 2013 and October 2014 and the flow through of lower wholesale gas commodity costs. Water Division revenue increased \$4.8 million, the result of additional revenue from water rate increases and a 1.6 percent increase in water sales volumes. Wastewater Division revenue was \$4.3 million higher than the previous year due to additional revenue from the wastewater rate increase effective October 2014 and a 0.9 percent increase in wastewater billed sales volumes.

Wholesale energy expense decreased \$4.9 million or 1 percent. Purchased power expense increased \$0.7 million compared to last year, the net effect of a 1.5 percent increase to wholesale rate from TVA, coupled with decreased fuel costs. Purchased gas expense was \$5.6 million lower, due to lower commodity costs.

Margin from sales (operating revenue less purchased energy expense) increased \$16.9 million compared to the previous year. The increase reflects a higher level of gas sales volumes and additional revenue from the electric, gas, water, and wastewater rate increases.

**Knoxville Utilities Board  
Management's Discussion and Analysis  
June 30, 2016 and 2015**

---

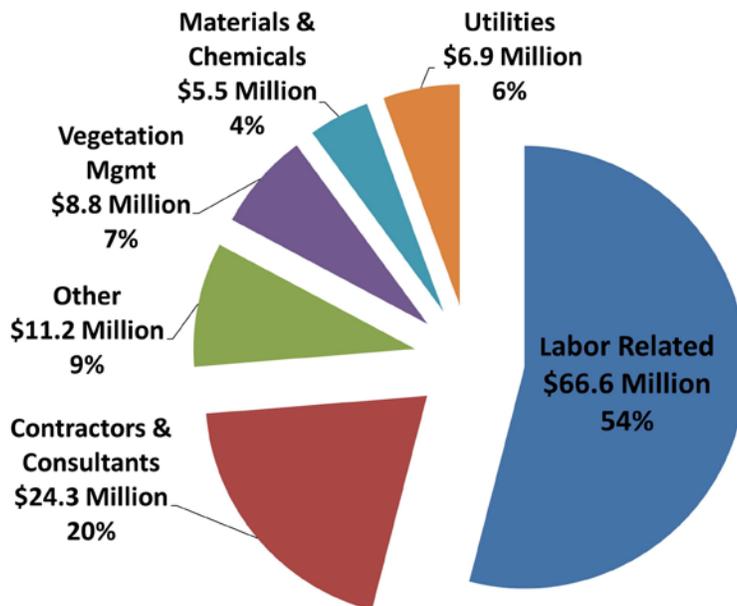
**Operating Expenses**

***Fiscal Year 2016 Compared to Fiscal Year 2015***

Operating expenses (excluding wholesale purchased energy expense) increased \$9.6 million or 4.5 percent compared to fiscal year 2015. Operating expenses include operations and maintenance (O&M) expense, depreciation, and taxes/tax equivalents. O&M expenses can be further classified as treatment, distribution and collection, customer service and administrative and general.

- Treatment expenses were \$1.3 million or 8.5 percent higher than the prior year, reflecting higher labor related expenses for the water and wastewater system and increased outside contractor expenses for the wastewater system.
- Distribution and collection expenses decreased \$2.8 million or 4.5 percent, primarily due to reduced use of outside contractors and consultants offset by increased labor related expenses.
- Customer service expenses rose \$0.2 million or 1.2 percent.
- Administrative and general expenses increased \$2.5 million or 8.1 percent, primarily due to an increase in pension expense.

**FY 2016 Consolidated O&M Expense = \$123.3 Million**



- Depreciation expense increased \$6.7 million or 10.8 percent. KUB added \$94.5 million in assets during fiscal year 2015. A full year of depreciation expense was recorded on these capital investments and a partial year of depreciation expense was incurred on \$213.7 million in assets placed in service during fiscal year 2016.

**Knoxville Utilities Board  
Management's Discussion and Analysis  
June 30, 2016 and 2015**

---

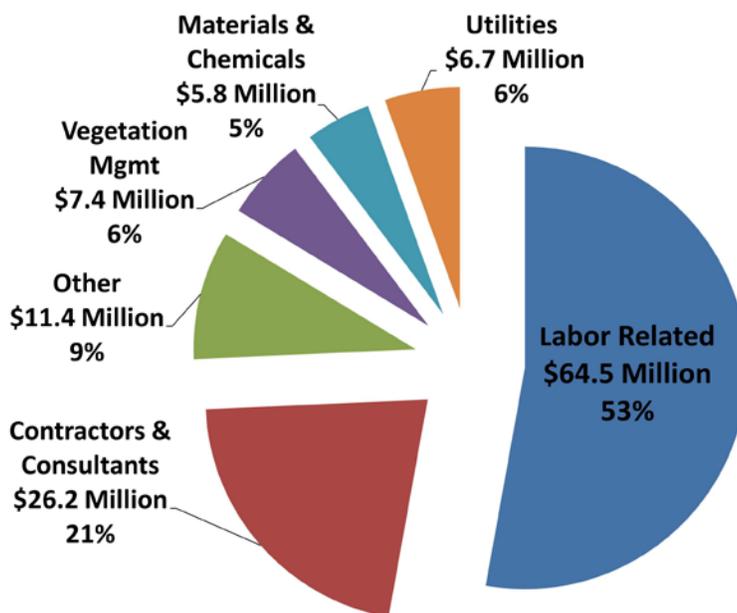
- Taxes and tax equivalents increased \$1.8 million or 6 percent due to increased plant in service levels. Tax equivalent payments to taxing jurisdictions in which KUB's utility systems are located are based on a combination of net plant values and margin from sales.

***Fiscal Year 2015 Compared to Fiscal Year 2014***

Operating expenses (excluding wholesale purchased energy expense) increased \$12 million or 5.9 percent compared to fiscal year 2014. Operating expenses include operations and maintenance (O&M) expense, depreciation, and taxes/tax equivalents. O&M expenses can be further classified as treatment, distribution and collection, customer service and administrative and general.

- Treatment expenses were \$1.3 million or 9.1 percent higher than the prior year, reflecting an increase in consultant and contractor expenses for the water and wastewater systems.
- Distribution and collection expenses increased \$2.2 million or 3.7 percent, primarily the result of restoration expenses related to the February 2015 ice storm, higher labor related expenses, vegetation management expenses, and outside consultant expenses.
- Customer service expenses rose \$1.1 million or 8.9 percent, due to an increase in computer software expenses and consultant expense during the fiscal year.
- Administrative and general expenses decreased \$1 million or 3.2 percent, primarily due to a decrease in pension expense.

**FY 2015 Consolidated O&M Expense = \$122.1 Million**



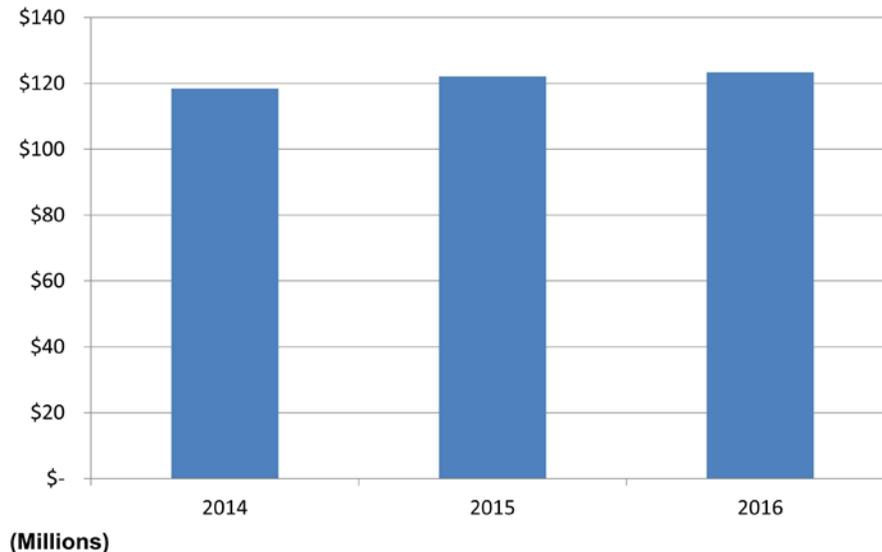
- Depreciation expense increased \$5.8 million or 10.4 percent. KUB added \$174 million in assets during fiscal year 2014. A full year of depreciation expense was recorded on these capital investments during fiscal year 2014 and a partial year of depreciation expense was incurred on \$94.5 million in assets placed in service during fiscal year 2015.

**Knoxville Utilities Board  
Management’s Discussion and Analysis  
June 30, 2016 and 2015**

---

- Taxes and tax equivalents increased \$2.6 million or 9.4 percent. Tax equivalent payments to taxing jurisdictions in which KUB’s utility systems are located are based on a combination of net plant values and margin from sales. The City of Knoxville’s property tax rate increased this year and higher plant in service and margin levels both contributed to the growth in tax equivalent payments.

**Consolidated Operation & Maintenance Expense**



**Other Income and Expense**

***Fiscal Year 2016 Compared to Fiscal Year 2015***

Contributions in aid of construction increased \$7.4 million compared to the prior fiscal year. This was primarily due to a \$4 million contribution from the University of Tennessee, representing the remaining portion of the University’s contribution for the natural gas South Loop project.

Interest income increased \$0.5 million compared to the prior fiscal year.

Interest expense increased \$1.2 million or 3.1 percent, reflecting interest expense from bonds issued in fiscal year 2015.

Other income (net) decreased \$1.7 million. Reimbursements of \$1.6 million were recognized as non-operating income in fiscal year 2015 for the February 2015 ice storm. KUB recorded a \$0.8 million loss on disposition of assets in fiscal year 2016 compared to a \$0.1 million loss in fiscal year 2015.

Capital contributions by developers were \$0.6 million higher than last fiscal year.

***Fiscal Year 2015 Compared to Fiscal Year 2014***

Contributions in aid of construction decreased \$4.6 million compared to the prior fiscal year. This was due to a \$3.9 million contribution from the University of Tennessee during the prior fiscal year, representing a portion of the University’s contribution for the South Loop project, a new gas transmission main. The

**Knoxville Utilities Board  
Management's Discussion and Analysis  
June 30, 2016 and 2015**

---

South Loop project will provide additional capacity to meet the University's increased natural gas demand in the future.

Interest income was consistent with the prior fiscal year.

Interest expense increased \$0.9 million or 2.5 percent, reflecting interest expense on \$78 million in bonds issued in August 2014, and \$85 million in bonds issued in April 2015.

Other income (net) increased \$2.3 million, primarily due to \$1.6 million in non-operating income from the accrual of the expected reimbursement of electric system restoration expenses related to the February 2015 ice storm. The loss on disposal of property decreased \$0.5 million compared to the prior fiscal year.

Capital contributions by developers were \$0.1 million lower than last fiscal year.

**Capital Assets**

**Capital Assets  
As of June 30  
(Net of Depreciation)**

*(in thousands of dollars)*

	<b>2016</b>	<b>2015</b>	<b>2014</b>
<b>Production Plant (Intakes)</b>	\$ 58	\$ 62	\$ 76
<b>Pumping and Treatment Plant</b>	194,450	174,660	177,256
<b>Distribution and Collection Plant</b>			
Mains and metering	\$ 755,850	\$ 685,480	\$ 670,953
Services and meters	92,121	89,086	85,654
Electric station equipment	56,487	34,643	32,797
Poles, towers and fixtures	104,867	93,780	84,332
Overhead conductors	84,937	79,199	73,663
Line transformers	59,587	56,774	55,600
Other accounts	195,751	192,417	191,564
<b>Total Distribution &amp; Collection Plant</b>	<b>\$ 1,349,600</b>	<b>\$ 1,231,379</b>	<b>\$ 1,194,563</b>
<b>General Plant</b>	55,791	51,234	52,149
<b>Total Plant Assets</b>	<b>\$ 1,599,899</b>	<b>\$ 1,457,335</b>	<b>\$ 1,424,044</b>
Work In Progress	143,206	193,812	124,830
<b>Total Net Plant</b>	<b>\$ 1,743,105</b>	<b>\$ 1,651,147</b>	<b>\$ 1,548,874</b>

*(Space left intentionally blank)*

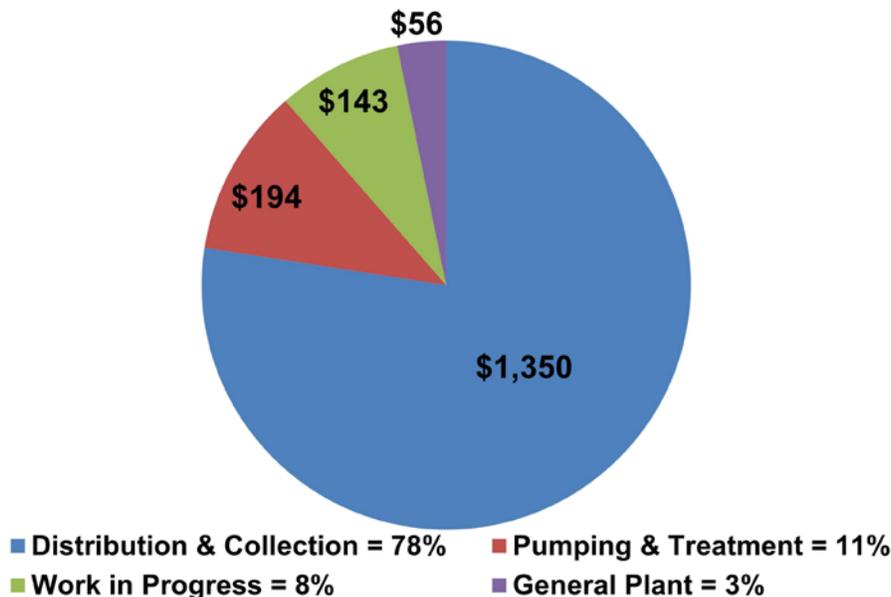
**Knoxville Utilities Board  
Management's Discussion and Analysis  
June 30, 2016 and 2015**

---

***Fiscal Year 2016 Compared to Fiscal Year 2015***

As of June 30, 2016, KUB had \$1.7 billion invested in capital assets, as reflected in the schedule of Capital Assets, which represents a net increase (including additions, retirements, and depreciation) of \$92 million or 5.6 percent over the end of the last fiscal year.

**FY 2016 Consolidated Capital Assets = \$1.7 Billion**  
(in Millions)



Major capital asset additions during the year were as follows:

- \$32.6 million related to wastewater Century II projects
  - \$15.8 million for sewer mini-basin rehabilitation and replacement
  - \$7.7 million for sewer trunk line rehabilitation and replacement
  - \$5.3 million for pump station design and construction
  - \$3.8 million for wastewater treatment plant upgrades
- \$25.1 million for various electric distribution system improvements
- \$15.1 million for installation of new gas main and service extensions
- \$13.5 million for main replacement for the water system
- \$8.4 million for upgrades to various information systems
- \$8.4 million for replacement and relocation of utility assets to accommodate TDOT highway improvement projects
- \$7.7 million for pole replacements for the electric system
- \$7.5 million for water plant and system improvements

**Knoxville Utilities Board  
Management's Discussion and Analysis  
June 30, 2016 and 2015**

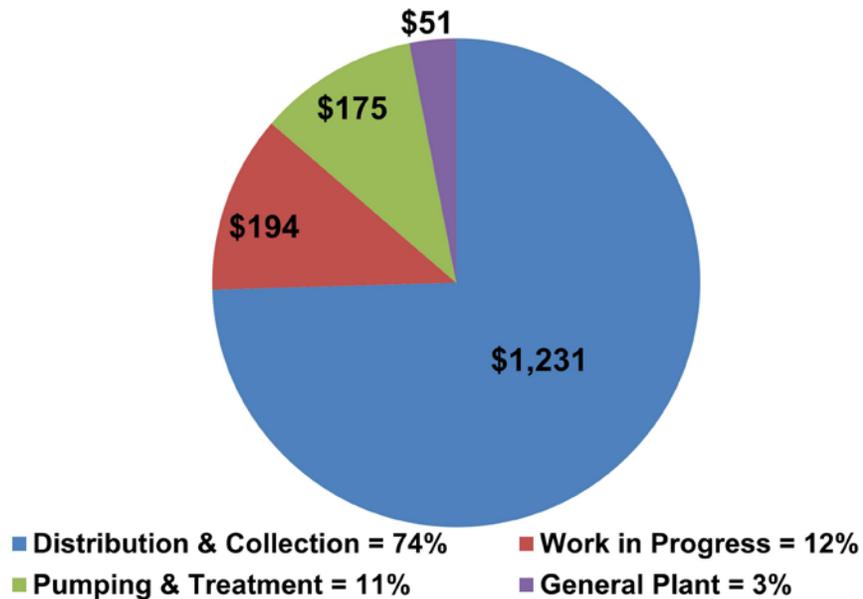
---

***Fiscal Year 2015 Compared to Fiscal Year 2014***

As of June 30, 2015, KUB had \$1.7 billion invested in capital assets, as reflected in the schedule of Capital Assets, which represents a net increase (including additions, retirements, and depreciation) of \$102.3 million or 6.6 percent over the end of the last fiscal year.

**FY 2015 Consolidated Capital Assets = \$1.7 Billion**

(in Millions)



Major capital asset additions during the year were as follows:

- \$28.7 million for various electric distribution system improvements
- \$25.3 million related to wastewater Century II projects
  - \$20.4 million for sewer mini-basin rehabilitation and replacement
  - \$2.6 million for pump station design and construction
  - \$1.3 million for wastewater treatment plant upgrades
  - \$1 million for sewer trunk line rehabilitation and replacement
- \$12.5 million for main replacement for the water system
- \$8.4 million for information system upgrades
- \$7.8 million for water plant and system improvements
- \$6 million for gas main replacement
- \$6 million for pole replacements for the electric system

**Knoxville Utilities Board  
Management's Discussion and Analysis  
June 30, 2016 and 2015**

---

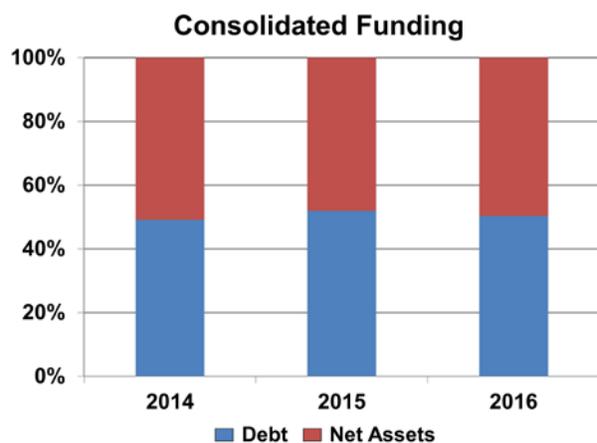
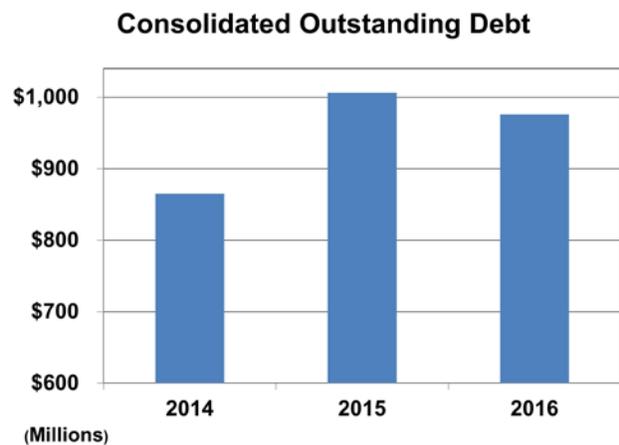
**Debt Administration**

KUB's outstanding debt was \$976.4 million at June 30, 2016. No new debt was issued in fiscal year 2016. Debt as a percentage of capital structure was 50.4 percent in 2016, 52 percent in 2015 and 49.2 percent at the end of fiscal year 2014.

**Outstanding Debt  
As of June 30**

*(in thousands of dollars)*

	2016	2015	2014
Revenue bonds	\$ 976,430	\$ 1,006,260	\$ 864,740
Total outstanding debt	<u>\$ 976,430</u>	<u>\$ 1,006,260</u>	<u>\$ 864,740</u>



KUB will pay \$365.1 million in principal payments over the next ten years, representing 37.4 percent of outstanding bonds.

***Fiscal Year 2016 Compared to Fiscal Year 2015***

As of June 30, 2016, KUB had \$976.4 million in outstanding debt (including the current portion of revenue bonds) compared to \$1 billion last year, a decrease of \$29.8 million. KUB's weighted average cost of debt as of June 30, 2016 was 3.95 percent.

KUB's outstanding debt is rated by Standard & Poor's and Moody's Investors Service. As of June 30, 2016, Standard & Poor's rated the revenue bonds of the Water Division AAA, the Electric and Wastewater Divisions AA+ and the revenue bonds of the Gas Division AA. Moody's Investors Service rated the bonds of all four Divisions Aa2.

# **Knoxville Utilities Board**

## **Management's Discussion and Analysis**

### **June 30, 2016 and 2015**

---

#### ***Fiscal Year 2015 Compared to Fiscal Year 2014***

As of June 30, 2015, KUB had \$1 billion in outstanding debt (including the current portion of revenue bonds) compared to \$864.7 million last year, an increase of \$141.5 million. KUB's weighted average cost of debt as of June 30, 2015 was 3.95 percent.

During fiscal year 2015, \$26.2 million in bonds were repaid.

In August 2014, KUB issued \$78 million of new revenue bonds to fund capital system improvements, including \$40 million for the electric system, \$8 million for the water system and \$30 million for the wastewater system.

In April 2015, KUB issued \$85 million of new revenue bonds to fund capital system improvements, including \$35 million for the electric system, \$20 million for the water system and \$30 million for the wastewater system.

In April 2015, KUB issued \$193.2 million in revenue refunding bonds to refinance certain outstanding bonds, including \$28.6 million for the electric system, \$11.8 million for the gas system, \$23 million for the water system and \$129.8 million for the wastewater system. The refunding of certain bonds at lower interest rates will provide debt service savings of \$19.2 million over the life of the bonds

KUB's outstanding debt is rated by Standard & Poor's and Moody's Investors Service. As of June 30, 2015, Standard & Poor's rated the revenue bonds of the Water Division AAA, the Electric and Wastewater Divisions AA+ and the revenue bonds of the Gas Division AA. Moody's Investors Service rated the bonds of all four Divisions Aa2. The Standard and Poor's water rating represented an upgrade for water system bonds and the highest credit rating available from Standard and Poor's. In the rating report on the water system bonds, Standard & Poor's stated "the upgrade is based on the water system's extremely strong financial risk profile, which we view as sustainable over time after reviewing management's long-term financial forecast."

#### **Impacts on Future Financial Position**

KUB anticipates net customer growth of 2,550 customers during fiscal year 2017.

In June 2014, the KUB Board adopted three years of rate increases for all four Divisions to help fund the ongoing Century II infrastructure programs for each system. Two of those rate increases have gone into effect.

The remaining electric rate increase will be effective July 2016. The rate increase will provide \$5.2 million in additional annual Electric Division revenue.

The remaining natural gas rate increase will be effective October 2016. The rate increase will result in \$1.8 million in additional annual Gas Division revenue.

The remaining water rate increase will be effective July 2016. The rate increase will result in additional annual Water Division revenue of \$2 million.

The remaining wastewater rate increase will be effective October 2016. The wastewater rate increase will provide additional annual revenue of \$4.7 million.

In April 2016, KUB management presented the fiscal year 2017 budget to the KUB Board of Commissioners that accommodates the projected level of capital investment for the fiscal year. Over the

# **Knoxville Utilities Board**

## **Management's Discussion and Analysis**

### **June 30, 2016 and 2015**

---

course of the next ten years KUB plans to spend \$108 million dollars on Grid Modernization. In July 2016, the four-year deployment of advanced meters began.

KUB sold \$40 million in electric system revenue bonds in July 2016 for the purpose of funding electric system capital improvements. The true interest cost of the bonds, which were sold through a competitive bidding process, was 2.75 percent.

KUB sold \$12 million in natural gas system revenue bonds in July 2016 for the purpose of funding natural gas system capital improvements. The true interest cost of the bonds, which were sold through a competitive bidding process, was 2.78 percent.

KUB sold \$25 million in water system revenue bonds in July 2016 for the purpose of funding water system capital improvements. The true interest cost of the bonds, which were sold through a competitive bidding process, was 2.72 percent.

KUB sold \$20.9 million in water system revenue refunding bonds in July 2016 for the purpose of refinancing existing debt at lower interest rates. KUB will realize a total debt service savings of \$2.5 million over the life of the bonds (\$2.2 million on a net present value basis). The true interest cost of the bonds, which were sold through a competitive bidding process, was 2.07 percent.

As part of the rating process for the \$25 million in revenue bonds and \$20.9 million in revenue refunding bonds, Moody's upgraded its rating on KUB's water system bonds to Aa1 from Aa2. Aa1 is the second to highest bond credit rating assigned by Moody's Investors Service. In its formal rating report, Moody's stated "the upgrade to Aa1 reflects the well-managed financial operations of the water system that continues to provide for solid debt service coverage and liquidity, a mature service area, and a manageable debt profile." The AAA bond rating from Standard and Poor's was reaffirmed. In its formal rating report on the water bonds Standard and Poor's noted "based on our financial management assessment we view KUB to be "1" on a scale of 1-6, with "1" being the strongest."

KUB sold \$20 million in wastewater system revenue bonds in July 2016 for the purpose of funding wastewater system capital improvements. The true interest cost of the bonds, which were sold through a competitive bidding process, was 2.72 percent.

KUB long-term debt includes \$130.4 million of Build America Bond (BABs). The BABs were sold on a taxable basis with the United States Treasury providing a rebate to KUB for a percentage of the interest cost. The interest rebates were subject to federal sequestration during the fiscal year and were reduced by 6.8 percent. Any future actions by Congress may also affect the anticipated rebates for future fiscal years.

GASB Statement No. 82, *Pension Issues – An amendment of GASB Statements No. 67, No. 68 and No. 73* is effective for fiscal years beginning after June 15, 2016. GASB Statement No. 74, *Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans*, and GASB No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions*, are effective for periods beginning after June 15, 2017. KUB has not elected early implementation of these standards and has not completed the process of evaluating the impact of these statements on its financial statements.

No other facts, decisions, or conditions are currently known which would have a significant impact on KUB's financial position or results of operations during fiscal year 2016.

**Knoxville Utilities Board**  
**Management's Discussion and Analysis**  
**June 30, 2016 and 2015**

---

**Financial Contact**

KUB's financial statements are designed to present users (citizens, customers, investors, and creditors) with a general overview of KUB's financial position and results of operations for the fiscal years ending June 30, 2016 and 2015. If you have questions about the statements or need additional financial information, contact KUB's Chief Financial Officer at 445 South Gay Street, Knoxville, Tennessee 37902.

**Knoxville Utilities Board**  
**Consolidated Statements of Net Position**  
**June 30, 2016 and 2015**

	<b>2016</b>	<b>2015</b>
<b>Assets and Deferred Outflows of Resources</b>		
Current assets:		
Cash and cash equivalents	\$ 78,946,397	\$ 124,892,534
Short-term contingency fund investments	25,699,396	6,296,090
Other current assets	859,383	1,638,388
Accrued interest receivable	43,237	43,229
Accounts receivable, less allowance of uncollectible accounts of \$805,684 in 2016 and \$720,939 in 2015	72,945,320	77,844,543
Inventories	10,524,829	8,421,065
Prepaid expenses	886,725	809,844
Gas storage	8,010,091	9,447,403
Total current assets	<u>197,915,378</u>	<u>229,393,096</u>
Restricted assets:		
Bond funds	28,935,445	26,154,107
Other funds	21,418	43,897
Unused bond proceeds	-	46,053,950
Total restricted assets	<u>28,956,863</u>	<u>72,251,954</u>
Plant in service		
Plant in service	2,397,423,083	2,210,535,681
Less accumulated depreciation	<u>(797,524,421)</u>	<u>(753,200,620)</u>
	1,599,898,662	1,457,335,061
Retirement in progress	1,327,498	940,386
Construction in progress	141,878,991	192,871,763
Net plant in service	<u>1,743,105,151</u>	<u>1,651,147,210</u>
Other assets:		
Net pension asset	-	6,021,629
Long-term contingency fund investments	69,184,035	84,036,694
TVA conservation program receivable	8,153,192	10,109,135
Under recovered purchased power cost	1,379,643	-
Under recovered purchased gas cost	2,178,653	-
Other	10,882,837	11,248,778
Total other assets	<u>91,778,360</u>	<u>111,416,236</u>
Total assets	<u>2,061,755,752</u>	<u>2,064,208,496</u>
Deferred outflows of resources:		
Pension outflow	10,357,291	3,157,199
Unamortized bond refunding costs	<u>23,877,411</u>	<u>25,230,799</u>
Total deferred outflows of resources	<u>34,234,702</u>	<u>28,387,998</u>
Total assets and deferred outflows of resources	<u>\$ 2,095,990,454</u>	<u>\$ 2,092,596,494</u>

The accompanying notes are an integral part of these consolidated financial statements.

**Knoxville Utilities Board**  
**Consolidated Statements of Net Position**  
**June 30, 2016 and 2015**

	<b>2016</b>	<b>2015</b>
<b>Liabilities, Deferred Inflows, and Net Position</b>		
Current liabilities:		
Current portion of revenue bonds	\$ 31,050,000	\$ 29,830,000
Sales tax collections payable	1,238,516	1,251,145
Accounts payable	50,663,005	50,651,280
Accrued expenses	21,610,050	19,729,155
Customer deposits plus accrued interest	17,135,891	16,465,292
Accrued interest on revenue bonds	12,755,853	11,306,248
Total current liabilities	<u>134,453,315</u>	<u>129,233,120</u>
Other liabilities:		
TVA conservation program	8,412,853	10,336,682
Accrued compensated absences	9,061,226	8,616,844
Customer advances for construction	2,247,599	2,305,058
Net pension liability	5,040,160	-
Over recovered purchased power cost	-	500,522
Over recovered purchased gas cost	-	1,063,761
Other	303,673	478,797
Total other liabilities	<u>25,065,511</u>	<u>23,301,664</u>
Long-term debt:		
Revenue bonds	945,380,000	976,430,000
Unamortized premiums/discounts	26,985,541	28,631,810
Total long-term debt	<u>972,365,541</u>	<u>1,005,061,810</u>
Total liabilities	<u>1,131,884,367</u>	<u>1,157,596,594</u>
Deferred inflows of resources:		
Pension inflow	1,512,267	6,378,310
Total deferred inflows of resources	<u>1,512,267</u>	<u>6,378,310</u>
Total liabilities and deferred inflows of resources	<u>1,133,396,634</u>	<u>1,163,974,904</u>
Net position		
Net investment in capital assets	772,012,085	650,464,457
Restricted for:		
Debt service	16,179,592	14,847,859
Other	21,418	43,896
Unrestricted	<u>174,380,725</u>	<u>263,265,378</u>
Total net position	<u>962,593,820</u>	<u>928,621,590</u>
Total liabilities, deferred inflows, and net position	<u>\$ 2,095,990,454</u>	<u>\$ 2,092,596,494</u>

The accompanying notes are an integral part of these consolidated financial statements.

**Knoxville Utilities Board**  
**Consolidated Statements of Revenues, Expenses and Changes in Net Position**  
**June 30, 2016 and 2015**

	2016	2015
Operating revenues		
Electric	\$ 515,031,267	\$ 527,233,806
Gas	88,193,346	113,850,059
Water	46,899,326	43,777,160
Wastewater	83,238,147	78,842,964
Total operating revenues	<u>733,362,086</u>	<u>763,703,989</u>
Operating expenses		
Purchased power	398,205,855	415,610,969
Purchased gas	41,095,212	63,555,513
Treatment	16,617,907	15,318,610
Distribution and collection	59,535,776	62,318,632
Customer service	13,893,287	13,725,067
Administrative and general	33,239,284	30,741,405
Provision for depreciation	68,369,697	61,708,086
Taxes and tax equivalents	31,439,759	29,648,873
Total operating expenses	<u>662,396,777</u>	<u>692,627,155</u>
Operating income	<u>70,965,309</u>	<u>71,076,834</u>
Non-operating revenues (expenses)		
Contributions in aid of construction	10,258,938	2,871,465
Interest and dividend income	1,388,168	916,983
Interest expense	(39,142,974)	(37,967,821)
Amortization of debt costs	(297,772)	(225,173)
Write-down of plant for costs recovered through contributions	(10,258,938)	(2,871,465)
Other	(110,775)	1,565,032
Total non-operating revenues (expenses)	<u>(38,163,353)</u>	<u>(35,710,979)</u>
Change in net position before capital contributions	32,801,956	35,365,855
Capital contributions	1,170,274	605,907
Change in net position	33,972,230	35,971,762
Net position, beginning of year, as previously reported	928,621,590	893,413,803
Change in method of accounting for pension	-	(763,975)
Net position, beginning of year, as restated	<u>928,621,590</u>	<u>892,649,828</u>
Net position, end of year	<u>\$ 962,593,820</u>	<u>\$ 928,621,590</u>

The accompanying notes are an integral part of these consolidated financial statements.

# Knoxville Utilities Board

## Consolidated Statements of Cash Flows

### June 30, 2016 and 2015

	2016	2015
Cash flows from operating activities:		
Cash receipts from customers	\$ 735,166,499	\$ 761,548,382
Cash receipts from other operations	14,425,337	11,720,197
Cash payments to suppliers of goods or services	(524,357,750)	(569,272,217)
Cash payments to employees for services	(55,202,648)	(50,466,843)
Payment in lieu of taxes	(27,404,220)	(25,910,417)
Cash receipts from collections of TVA conservation loan program participants	3,067,056	3,046,131
Cash payments for TVA Conservation loan program	(3,034,941)	(3,071,013)
Net cash provided by operating activities	<u>142,659,333</u>	<u>127,594,220</u>
Cash flows from capital and related financing activities:		
Net proceeds from bond issuance	-	165,499,847
Principal paid on revenue bonds and notes payable	(29,830,000)	(26,240,000)
(Increase) decrease in unused bond proceeds	46,053,950	(44,998,540)
Interest paid on revenue bonds and notes payable	(37,693,370)	(37,130,082)
Acquisition and construction of plant	(171,820,155)	(168,110,486)
Changes in bond funds, restricted	(2,781,338)	(1,491,853)
Customer advances for construction	301,071	697,695
Proceeds received on disposal of plant	269,540	-
Cash received from developers and individuals for capital purposes	10,258,938	2,871,465
Net cash used in capital and related financing activities	<u>(185,241,364)</u>	<u>(108,901,954)</u>
Cash flows from investing activities:		
Purchase of investment securities	(10,460,222)	(20,286,901)
Maturities of investment securities	6,292,200	19,495,562
Interest received	1,388,160	903,509
Other property and investments	(584,244)	9,256
Net cash provided by (used in) investing activities	<u>(3,364,106)</u>	<u>121,426</u>
Net increase (decrease) in cash and cash equivalents	(45,946,137)	18,813,692
Cash and cash equivalents, beginning of year	<u>124,892,534</u>	<u>106,078,842</u>
Cash and cash equivalents, end of year	<u>\$ 78,946,397</u>	<u>\$ 124,892,534</u>
<b>Reconciliation of operating income to net cash provided by operating activities</b>		
Operating income	\$ 70,965,309	\$ 71,076,834
Adjustments to reconcile operating income to net cash provided by operating activities:		
Depreciation expense	70,236,319	63,406,737
Changes in operating assets and liabilities:		
Accounts receivable	4,980,351	1,848,310
Inventories	(2,103,762)	669,347
Prepaid expenses	1,360,432	881,113
TVA conservation program receivable	1,874,818	523,680
Other assets	576,770	(2,942,632)
Sales tax collections payable	(12,629)	52,021
Accounts payable and accrued expenses	1,332,656	(4,201,309)
TVA conservation program payable	(1,923,829)	(548,563)
Unrecovered purchased power cost	(1,880,165)	(3,912,247)
Underrecovered gas costs	(3,242,414)	(214,383)
Customer deposits plus accrued interest	670,600	732,639
Other liabilities	(175,123)	222,673
Net cash provided by operating activities	<u>\$ 142,659,333</u>	<u>\$ 127,594,220</u>
Noncash capital activities:		
Acquisition of plant assets through developer contributions	\$ 1,170,274	\$ 605,907

The accompanying notes are an integral part of these consolidated financial statements.

# Knoxville Utilities Board

## Notes to Consolidated Financial Statements

### June 30, 2016 and 2015

---

#### 1. Description of Business:

Knoxville Utilities Board (KUB), comprised of the Electric Division, Gas Division, Water Division, and Wastewater Division (Divisions), is reported as a component unit enterprise fund in the financial statements of the City of Knoxville. KUB's responsibility is to oversee the purchase, production, distribution, and processing of electricity, natural gas, water, and wastewater services. A seven-member Board of Commissioners (Board) governs KUB. The Board has all powers to construct, acquire, expand, and operate the Divisions. It has full control and complete jurisdiction over the management and operation of the Divisions including setting rates. KUB's accounts are maintained in conformity with the Uniform System of Accounts of the Federal Energy Regulatory Commission (FERC), the Uniform System of Accounts of the National Association of Regulatory Utility Commissioners (NARUC), and the Governmental Accounting Standards Board (GASB), as applicable.

#### 2. Significant Accounting Policies:

##### **Basis of Accounting**

In conformity with Generally Accepted Accounting Principles (GAAP), KUB follows the provisions of GASB Statement No. 34 (Statement No. 34), *Financial Statements – and Management's Discussion and Analysis – for State and Local Governments* as amended by GASB Statement No. 63 (Statement No. 63), *Financial Reporting of Deferred Outflows of Resources, Deferred Inflows of Resources and Net Position*. Statement No. 34 established standards for external financial reporting for all state and local governmental entities. Under Statement No. 63, financial statements include deferred outflows of resources and deferred inflows of resources, in addition to assets and liabilities, and will report *net position* instead of net assets. In addition, KUB follows GASB Statement No. 62 (Statement No. 62), *Codification of Accounting and Financial Reporting Guidance Contained in Pre-November 30, 1989 FASB and AICPA Pronouncements* as it relates to certain items for regulatory accounting. Regulatory accounting allows a regulated utility to defer a cost (a regulatory asset) or recognize an obligation (a regulatory liability) if it is probable that through the rate making process, there will be a corresponding increase or decrease in future revenues. Accordingly, KUB has recognized certain regulatory assets and regulatory liabilities in the accompanying Statements of Net Position.

The consolidated financial statements are prepared on the accrual basis of accounting, whereby revenues are recognized when earned and expenses are recognized when incurred. The accounting and financial reporting treatment applied is determined by measurement focus. The transactions are accounted for on a flow of economic resources measurement focus. With this measurement focus, all assets and all liabilities associated with the operations are included on the Statement of Net Position. Net position (i.e., total assets and deferred outflows of resources net of total liabilities and deferred inflows of resources) is segregated into net investment in capital assets, restricted for capital activity and debt service, and unrestricted components.

##### **Recently Adopted New Accounting Pronouncements**

In February 2015, the Governmental Accounting Standards Board (GASB) issued Statement No. 72 (Statement No. 72), *Fair Value Measurement and Application*. Statement No. 72 is intended to provide guidance for determining a fair value measurement for financial reporting purposes and for applying fair value to certain investments and disclosures related to all fair value measurements.

In June 2015, the GASB issued GASB Statement No. 73 (Statement No. 73), *Accounting and Financial Reporting for Pensions and Related Assets That Are Not within the Scope of GASB Statement 68, and Amendments to Certain Provision of GASB Statements 67 and 68*. The requirements of this Statement will improve financial reporting by establishing a single framework for the presentation of information about pensions and enhance comparability.

# **Knoxville Utilities Board**

## **Notes to Consolidated Financial Statements**

### **June 30, 2016 and 2015**

---

In June 2015, the GASB issued GASB Statement No. 76 (Statement No. 76), *The Hierarchy of Generally Accepted Accounting Principles for State and Local Governments*. The objective of this Statement is to simplify the hierarchy of generally accepted accounting principles (GAAP) used to prepare financial statements of state and local governmental entities. This Statement supersedes Statement No. 55, *The Hierarchy of Generally Accepted Accounting Principles for State and Local Governments*, and amends Statement No. 62, *Codification of Accounting and Financial Reporting Guidance Contained in Pre-November 30, 1989 FASB and AICPA Pronouncements*, paragraphs 64, 74, and 82.

In December 2015, the GASB issued GASB Statement No. 79 (Statement No. 79), *Certain External Investment Pools and Pool Participants*. This statement establishes criteria for an external investment pool to qualify for making the election to measure all of its investments at amortized cost for financial reporting purposes.

Statements No. 72, 73, 76, and 79 are effective for fiscal years beginning after June 15, 2015.

#### **Principles of Consolidation**

The consolidated financial statements include the accounts of the Electric, Gas, Water and Wastewater Divisions. All significant intercompany balances and transactions have been eliminated in consolidation.

KUB issues separate financial reports, which include financial statements and required supplementary information, for the Electric, Gas, Water, and Wastewater Divisions. These reports may be obtained by writing Knoxville Utilities Board, P.O. Box 59017, Knoxville, TN 37950-9017.

#### **Plant**

Plant and other property are stated on the basis of original cost. The costs of current repairs and minor replacements are charged to operating expense. The costs of renewals and improvements are capitalized. The original cost of utility plant assets retired or otherwise disposed of and the cost of removal less salvage value is charged to accumulated depreciation. When other property is retired, the related asset and accumulated depreciation are removed from the accounts, and the gain or loss is included in the results of operations.

The provision for depreciation of plants in service is based on the estimated useful lives of the assets, which range from three to sixty-seven years, and is computed using the straight-line method. Pursuant to FERC/NARUC, the caption "Provision for depreciation" in the consolidated Statements of Revenues, Expenses and Changes in Net Position does not include depreciation for transportation equipment of \$1,866,622 in fiscal year 2016 and \$1,698,650 in fiscal year 2015. Under regulatory accounting, interest costs are expensed as incurred with construction of plant assets.

#### **Operating Revenue**

Operating revenue consists primarily of charges for services provided by the principal operations of KUB. Operating revenue is recorded when the service is rendered, on a cycle basis, and includes an estimate of unbilled revenue. Revenues are reported net of bad debt expense of \$1,820,030 in fiscal year 2016 and \$2,504,785 in fiscal year 2015.

#### **Non-operating Revenue**

Non-operating revenue consists of revenues that are related to financing and investing types of activities and result from non-exchange transactions or ancillary activities.

#### **Expense**

When an expense is incurred for purposes for which there are both restricted and unrestricted assets available, it is KUB's policy to apply those expenses to restricted assets to the extent such are available and then to unrestricted assets.

# **Knoxville Utilities Board**

## **Notes to Consolidated Financial Statements**

### **June 30, 2016 and 2015**

---

#### **Net Position**

GASB Statement No. 63 requires the classification of net position into three components – net investment in capital assets; net position-restricted; and net position-unrestricted.

These classifications are defined as follows:

- Net investment in capital assets – This component of net position consists of capital assets, including restricted 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. Deferred outflows of resources and deferred inflows of resources that are attributable to the acquisition, construction, or improvement of those assets or related debt also should be included in this component of net position. If there are significant unspent related debt proceeds at year end, the portion of the debt attributable to the unspent proceeds are not included in the calculation of net investment in capital assets. Rather, that portion of the debt is included in the same net position component as the unspent proceeds.
- Net position-restricted – This component of net position consists of restricted assets reduced by liabilities and deferred inflows of resources related to those assets. Generally, a liability relates to restricted assets if the asset results from a resource flow that also results in the recognition of a liability or if the liability will be liquidated with the restricted assets reported.
- Net position-unrestricted – This component of net position consists of assets, deferred outflows of resources, liabilities, and deferred inflows of resources that are not included in the determination of net investment in capital assets or the restricted component of net position.

#### **Contributions in Aid of Construction and Capital Contributions**

Contributions in aid of construction are cash collections from customers or others for a particular purpose, generally the construction of new facilities to serve new customers in excess of the investment KUB is willing to make for a particular incremental revenue source. KUB reduces the plant account balances to which contributions relate by the actual amount of the contribution and recognizes the contributions as non-operating revenue in accordance with Statement No. 62.

Capital contributions represent contributions of utility plant infrastructure constructed by developers and others in industrial parks and other developments, and transferred to KUB upon completion of construction and the initiation of utility service. In accordance with GASB Statement No. 33, *Accounting and Financial Reporting for Nonexchange Transactions*, such contributions are recognized as revenues and capital assets upon receipt.

#### **Inventories**

Inventories, consisting of plant materials and operating supplies, are valued at the lower of average cost or replacement value.

# **Knoxville Utilities Board**

## **Notes to Consolidated Financial Statements**

### **June 30, 2016 and 2015**

---

#### **Change in Method of Accounting for Pension**

In June 2012, the Governmental Accounting Standards Board (GASB) issued Statement No. 68, *Accounting and Financial Reporting for Pensions – An Amendment of GASB Statement No. 27*, which revises existing standards of financial reporting for pensions. In addition, during November 2013, GASB issued Statement No. 71, *Pension Transition for Contributions Made Subsequent to the Measurement Date*, which requires deferred outflow of resources to be recognized for any contributions made subsequent to the measurement date of the beginning net pension liability. These standards were adopted by KUB in 2015 and resulted in a restatement of 2015 beginning net position of \$763,975.

#### **Pension Plan**

KUB's employees are participants in the Knoxville Utilities Board Pension Plan as authorized by the Charter of the City of Knoxville §1107(J) (Note 10). KUB's policy is to fully fund the annual actuarially determined contributions. As required by GASB Statement No. 68, KUB measures net pension liability as total pension liability less the amount of the Plan's fiduciary net position. The amounts reported as of June 30, 2016 and 2015 must be based upon a plan measurement date within the prior twelve months. Therefore, KUB's measurements as of June 30, 2016 and 2015 are based on a December 31, 2015 and 2014 measurement date, respectively.

#### **Investments**

Investments are carried at fair value as determined by quoted market prices at the reporting date.

#### **Self-Insurance**

KUB has established self-insurance programs covering portions of workers' compensation, employee health, environmental liability, general liability, property and casualty liability, and automobile liability claims. A liability is accrued for claims as they are incurred. When applicable, claims in excess of the self-insured risk are covered by KUB's insurance carrier. Additionally, KUB provides certain lifetime health benefits to eligible retired employees under a self-insurance plan administered by a third party.

#### **Estimates**

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts 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 reporting period. These estimates are based on historical experience and various other assumptions that KUB believes are reasonable under the circumstances. However, future events are subject to change and the best estimates and judgments routinely require adjustment. Estimates are used for, but not limited to, inventory valuation, allowance for uncollectible accounts, depreciable lives of plant assets, unbilled revenue volumes, pension trust valuations, OPEB trust valuations, insurance liability reserves, and potential losses from contingencies and litigation. Actual results could differ from those estimates.

#### **Restricted and Designated Assets**

Certain assets are restricted by bond resolutions for the construction of utility plant and debt repayment. Certain additional assets are designated by management for contingency purposes and economic development.

#### **Cash Equivalents**

For purposes of the Statements of Cash Flows, KUB considers all unrestricted and undesignated highly liquid investments with an original maturity of three months or less when purchased to be cash equivalents.

# **Knoxville Utilities Board**

## **Notes to Consolidated Financial Statements**

### **June 30, 2016 and 2015**

---

#### **Deferred Outflows and Inflows of Resources**

Deferred outflows of resources are items previously reported as assets related to the acquisition of assets or related debt which are amortized over the life of the asset or debt. Deferred inflows of resources are items previously reported as liabilities related to the acquisition of assets or related debt which are amortized over the life of the asset or debt. KUB records costs associated with the gain or loss on refunding of debt as either a deferred outflow or inflow based on the parameters of Statement No. 65. Deferred outflows of resources also include employer pension contributions made subsequent to the measurement date of the net pension liability and before the end of the employer's reporting period in accordance with Statement No. 71. Deferred inflows and deferred outflows also include the net difference between projected and actual earnings on pension plan investments and differences between expected and actual experience in accordance with Statement No. 68.

#### **Debt Premium/Discount**

KUB records unamortized premium and discount on debt as a separate line item in the Long Term Debt section of the Financial Statements. Amortization of these amounts is recorded over the life of the applicable debt as amortization expense.

#### **Debt Issuance Costs**

In accordance with regulatory accounting, KUB records debt issuance costs as an Other Asset. Amortization of these amounts is recorded over the life of the applicable debt as amortization expense.

#### **Deferred Gain/Loss on Refunding of Debt**

KUB records costs associated with the gain or loss on refunding of debt as either a deferred outflow or inflow based on the parameters of Statement No. 65. In accordance with FERC presentation, amortization of these amounts is recorded over the life of the applicable debt as amortization expense.

#### **Compensated Absences**

KUB accrues a liability for earned but unpaid paid-time off (PTO) days.

#### **TVA Conservation Program**

KUB previously served as a fiscal intermediary for TVA whereby loans were made to KUB customers by TVA to be used in connection with TVA's Energy Right Residential Program. While KUB still holds existing loans, no loans were made through this program after October 31, 2015.

#### **Subsequent Events**

KUB has evaluated events and transactions through October 27, 2016, the date these financial statements were issued, for items that should potentially be recognized or disclosed. KUB sold \$40 million in electric system revenue bonds in July 2016 for the purpose of funding electric system capital improvements in fiscal year 2017. The true interest cost of the bonds, which were sold through a competitive bidding process, was 2.75 percent. KUB sold \$12 million in natural gas system revenue bonds in July 2016 for the purpose of funding natural gas system capital improvements in fiscal year 2017. The true interest cost of the bonds, which were sold through a competitive bidding process, was 2.78 percent. KUB sold \$25 million in water system revenue bonds in July 2016 for the purpose of funding water system capital improvements in fiscal year 2017. The true interest cost of the bonds, which were sold through a competitive bidding process, was 2.72 percent. KUB sold \$20.9 million in water system revenue refunding bonds in July 2016 with an average interest rate of 2.5 percent to advance refund \$19.9 million of outstanding bonds with an average interest rate of 4.18 percent. The true interest cost of the bonds, which were sold through a competitive bidding process, was 2.07 percent. The net proceeds of \$22 million (after payment of \$0.3 million in underwriting fees and other issuance costs plus premium of \$1 million and an additional issuer equity contribution of \$0.4 million) were used to purchase U.S. government securities. Those securities were deposited in an irrevocable trust with an escrow agent to provide

# Knoxville Utilities Board

## Notes to Consolidated Financial Statements

### June 30, 2016 and 2015

---

for all future debt service payments on the bonds. As a result, the bonds will be considered defeased and the liability for those bonds will be removed from the financial statements. This refunding decreases total debt service payments over the next 17 years by \$2.5 million resulting in an economic gain (difference between the present values of the debt service payments on the old and new debt) of \$2.2 million. KUB sold \$20 million in wastewater system revenue bonds in July 2016 for the purpose of funding wastewater system capital improvements in fiscal year 2017. The true interest cost of the bonds, which were sold through a competitive bidding process, was 2.72 percent.

#### **Purchased Power Adjustment**

In October 2002, the Board adopted a Purchased Power Adjustment (PPA) to address changes in wholesale power costs. The PPA was established in response to an amendment to KUB's power supply contract under which, among other things, TVA relinquished its regulatory authority over KUB retail electric rates. The PPA allows KUB to promptly adjust retail electric rates in response to wholesale rate changes or adjustments, thus ensuring that KUB will recover the costs incurred for purchased power. These changes in electric costs are reflected as adjustments to the base electric rates established by the Board. The rate-setting authority vested in the Board by the City Charter meets the "self-regulated" provisions of Statement No. 62, *Codification of Accounting and Financial Reporting Guidance Contained in Pre-November 30, 1989 FASB and AICPA Pronouncements*, and KUB meets the remaining criteria of Statement No. 62.

TVA implemented a fuel cost adjustment in October 2006 applied on a quarterly basis to wholesale power rates. TVA's quarterly fuel cost adjustment became a monthly fuel cost adjustment effective October 2009. KUB flows changes to wholesale power rates from TVA's fuel cost adjustment mechanism directly through to its retail electric rates via the PPA.

In April 2011, TVA modified its wholesale rate structure to demand and energy billing for its distributors. In response, KUB revised its PPA to include a deferred accounting component to ensure appropriate matching of revenue and expense and cost recovery. KUB will adjust its retail rates on an annual basis to flow any over or under recovery of wholesale power costs through to its customers via the PPA.

Under the PPA mechanism, KUB tracks the actual over/(under) recovered amount in the Over/(Under) Recovered Purchased Power Costs accounts. These accounts are rolled into the PPA rate adjustments thereby assuring that any over/(under) recovered amounts are promptly passed on to the KUB's electric customers. The amount of over/(under) recovered cost was (\$1,379,643) at June 30, 2016 and \$500,522 at June 30, 2015.

#### **Purchased Gas Adjustment**

In November 1990, the Board implemented a deferred Purchased Gas (Cost) Adjustment (PGA) mechanism, which allows KUB to flow changes in purchased gas costs through to its customers. These changes in gas costs are reflected as adjustments to the base gas rates established by the Board. The rate-setting authority vested in the Board by the City Charter meets the "self-regulated" provisions of GASB Statement No. 62 (Statement No. 62), *Codification of Accounting and Financial Reporting Guidance Contained in Pre-November 30, 1989 FASB and AICPA Pronouncements*.

The PGA is intended to assure that KUB recovers the total cost of natural gas purchased, transported and/or reserved for delivery to its sales and transportation customers on an equitable basis. The PGA is also intended to assure that no excess or deficient cost recovery from KUB's customers occurs.

Under the PGA mechanism, KUB tracks the actual over/(under) recovered amount in the Over/(Under) Recovered Purchased Gas Costs accounts. These accounts are rolled into the PGA rate adjustment on June 30 of each year thereby assuring that any over/(under) recovered amounts

# Knoxville Utilities Board

## Notes to Consolidated Financial Statements

### June 30, 2016 and 2015

---

are passed on to KUB's gas system customers. The amount of over/(under) recovered cost was (\$2,178,653) at June 30, 2016 and \$1,063,761 at June 30, 2015.

#### **Recently Issued Accounting Pronouncements**

In June 2015, the GASB issued two related Statements that affect accounting and financial reporting by state and local governments for postemployment benefits other than pensions (OPEB). GASB Statement No. 74 (Statement No. 74), *Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans*, addresses reporting by OPEB plans that administer benefits on behalf of governments. GASB Statement No. 75 (Statement No. 75), *Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions*, addresses reporting by governments that provide OPEB to their employees. Statement No. 74 is effective for fiscal years beginning after June 15, 2016, and Statement No. 75 is effective for fiscal years beginning after June 15, 2017.

In March 2016, the GASB issued GASB Statement No. 82 (Statement No. 82), *Pension Issues – An amendment of GASB Statements No. 67, No. 68 and No. 73*. The objective of this Statement is to address certain issues that have been raised with respect to the presentation of payroll-related measures in required supplementary information, the selection of assumptions and treatment of deviations from the guidance in an Actuarial Standard of Practice for financial reporting purposes and the classification of payments made by employers to satisfy employee contribution obligations. Statement No. 82 is effective for fiscal years beginning after June 15, 2016.

KUB has not elected early implementation of these standards and has not completed the process of evaluating the impact of these statements on its financial statements.

### **3. Deposits and Investments**

KUB follows the provisions of Statement No. 40 of the Governmental Accounting Standards Board, *Deposit and Investment Risk Disclosures an amendment of GASB Statement No. 3*. This Statement establishes and modifies disclosure requirements for state and local governments related to deposit and investment risks. KUB classifies its fair value measurements within the fair value hierarchy established by Statement No. 72 of the Governmental Accounting Standards Board, *Fair Value Measurement and Application*.

KUB's investment policy provides the framework for the administration and investment of cash deposits. The investment policy follows Tennessee State law and defines the parameters under which KUB funds should be invested. State law authorizes KUB to invest in obligations of the United States Treasury, its agencies and instrumentalities; certificates of deposit; repurchase agreements; money market funds; and the State Treasurer's Investment Pool.

*Interest Rate Risk.* KUB's primary investment objectives are to place investments in a manner to ensure the preservation of capital, remain sufficiently liquid to meet all operating requirements, and maximize yield of return. KUB minimizes its exposure to interest rate risk by adhering to Tennessee State law requirements for the investment of public funds. This includes limiting investments to those types described above and limiting maturity horizons. The maximum maturity is four years from the date of investment. KUB also limits its exposure by holding investments to maturity unless cash flow requirements dictate otherwise.

*Credit Risk.* KUB's investment policy, as required by state law, is to apply the prudent-person rule: Investments are made with judgment and care, under circumstances then prevailing, which persons of prudence, discretion, and intelligence exercise in the management of their own affairs, not for speculation, but for investment, considering the probable income to be derived, as well as the probable safety of their capital. KUB's Agency Bond investments are rated Aaa by Moody's Investors Service.

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

*Custodial Credit Risk.* KUB's investment policy limits exposure to custodial credit risk by restricting investments to a standard set forth by State law. All deposits in excess of federal depository insurance limits are collateralized with government securities held in KUB's name by a third-party custodian bank(s) acting as KUB's agent(s), or through the State of Tennessee's collateral pool. Financial institutions that participate in the collateral pool are subject to special assessment; therefore, the deposits are considered insured. A portion of KUB's investments are generally held in the State of Tennessee Local Government Investment Pool (LGIP). The LGIP is a part of the State Pooled Investment Fund and is sponsored by the State of Tennessee Treasury Department. Tennessee Code Annotated ¶9-4-701 *et seq.* authorizes local governments to invest in the LGIP. None of KUB's investments are exposed to custodial credit risk.

Classification of deposits and investments per Statement of Net Position:

	2016	2015
Current assets		
Cash and cash equivalents	\$ 78,946,397	\$ 124,892,534
Short-term contingency fund investments	25,699,396	6,296,090
Other assets		
Long-term contingency fund investments	68,914,368	83,847,641
Restricted assets		
Unused bond proceeds	-	46,053,447
Bond fund	28,935,445	26,154,107
Other funds	21,418	43,897
	<u>\$ 202,517,024</u>	<u>\$ 287,287,716</u>

The above amounts do not include accrued interest of \$269,667 in fiscal year 2016 and \$189,556 in fiscal year 2015. Interest income is recorded on an accrual basis.

Investments and maturities of KUB's deposits and investments as held by financial institutions as of June 30, 2016:

	<b>Deposit and Investment Maturities (in Years)</b>		
	<u>Fair Value</u>	<u>Less Than 1</u>	<u>1-5</u>
Supersweep NOW and Other Deposits	\$ 100,126,611	\$ 100,126,611	\$ -
State Treasurer's Investment Pool	15,439,274	15,439,274	-
Agency Bonds	107,268,539	25,699,396	81,569,143
Certificates of Deposits	13,393,246	10,968,246	2,425,000
	<u>\$ 236,227,670</u>	<u>\$ 152,233,527</u>	<u>\$ 83,994,143</u>

KUB categorizes its fair value measurements within the fair value hierarchy established by Statement No. 72 of the Governmental Accounting Standards Board, *Fair Value Measurement and Application*. The hierarchy is based on the valuation inputs used to measure the fair value of an asset with a maturity at purchase greater than one year. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; Level 3 inputs are significant unobservable inputs.

KUB has the following recurring fair value measurements as of June 30, 2016:

- U.S. Agency bonds of \$81,569,143, which have a maturity at purchase of greater than one year, are valued using quoted market prices (Level 1 inputs)

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

---

- Certificates of deposits of \$2,425,000, which have a maturity at purchase of greater than one year, are valued at interest rates and yield curves observable at commonly quoted intervals (Level 2 inputs)

KUB measures investments with a maturity at purchase of one year or less at amortized cost, which is considered a fair value equivalent due to their nature. Investments in the State Treasurer's Investment Pool are measured at net asset value (NAV) per share.

**4. Accounts Receivable**

Accounts receivable consists of the following:

	<b>2016</b>	<b>2015</b>
Wholesale and retail customers		
Billed services	\$ 42,412,998	\$ 47,996,899
Unbilled services	26,904,562	25,602,160
Other	4,433,444	4,966,423
Allowance for uncollectible accounts	(805,684)	(720,939)
	<u>\$ 72,945,320</u>	<u>\$ 77,844,543</u>

**5. Accounts Payable and Accruals**

Accounts payable and accruals consist of the following:

	<b>2016</b>	<b>2015</b>
Trade accounts	\$ 50,663,005	\$ 50,651,280
Salaries and wages	2,129,489	1,509,808
Advances on pole rental	2,135,320	1,147,346
Self-insurance liabilities	1,758,352	1,699,525
Other current liabilities	15,586,889	15,372,476
	<u>\$ 72,273,055</u>	<u>\$ 70,380,435</u>

*(Space left intentionally blank)*

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

**6. Long-Term Obligations**

	Balance June 30, 2015	Additions	Payments	Defeased	Balance June 30, 2016	Amounts Due Within One Year
<b>Electric</b>						
W-2005 - 3.0 - 4.5%	\$ 31,350,000	\$ -	\$ 1,870,000	\$ -	\$ 29,480,000	\$ 1,940,000
X-2006 - 4.0 - 5.0%	1,825,000	-	1,825,000	-	-	-
Y-2009 - 2.5 - 5.0%	6,875,000	-	1,600,000	-	5,275,000	1,675,000
Z-2010 - 1.45 - 6.35%	25,205,000	-	1,285,000	-	23,920,000	1,305,000
AA-2012 - 3.0 - 5.0%	34,840,000	-	990,000	-	33,850,000	2,540,000
BB-2012 - 3.0 - 4.0%	33,875,000	-	650,000	-	33,225,000	675,000
CC-2013 - 3.0 - 4.0%	9,535,000	-	50,000	-	9,485,000	450,000
DD-2014 - 2.0 - 4.0%	40,000,000	-	675,000	-	39,325,000	700,000
EE-2015 - 2.0 - 5.0%	28,550,000	-	125,000	-	28,425,000	150,000
FF-2015 - 2.0 - 5.0%	35,000,000	-	-	-	35,000,000	675,000
Total bonds	\$ 247,055,000	\$ -	\$ 9,070,000	\$ -	\$ 237,985,000	\$ 10,110,000
Unamortized premium	10,345,326	-	617,044	-	9,728,282	-
Total long term debt	\$ 257,400,326	\$ -	\$ 9,687,044	\$ -	\$ 247,713,282	\$ 10,110,000
<b>Gas</b>						
L-2005 - 3.0 - 4.75%	\$ 10,715,000	\$ -	\$ 695,000	\$ -	\$ 10,020,000	\$ 725,000
N-2007 - 4.0 - 5.0%	550,000	-	-	-	550,000	550,000
O-2010 - 2.0 - 3.0%	3,475,000	-	3,475,000	-	-	-
P-2010 - 3.3 - 6.2%	12,000,000	-	-	-	12,000,000	540,000
Q-2012 - 2.0 - 4.0%	23,345,000	-	700,000	-	22,645,000	2,065,000
R-2012 - 2.0 - 4.0%	9,600,000	-	200,000	-	9,400,000	400,000
S-2013 - 2.0 - 4.0%	11,480,000	-	50,000	-	11,430,000	570,000
T-2013 - 2.0 - 4.6%	24,600,000	-	200,000	-	24,400,000	500,000
U-2015 - 2.0 - 3.5%	11,780,000	-	100,000	-	11,680,000	100,000
Total bonds	\$ 107,545,000	\$ -	\$ 5,420,000	\$ -	\$ 102,125,000	\$ 5,450,000
Unamortized premium	3,794,404	-	305,551	-	3,488,853	-
Total long term debt	\$ 111,339,404	\$ -	\$ 5,725,551	\$ -	\$ 105,613,853	\$ 5,450,000
<b>Water</b>						
S-2005 - 3.5 - 5.0%	\$ 6,735,000	\$ -	\$ 440,000	\$ -	\$ 6,295,000	\$ 465,000
T-2007 - 4.0 - 5.5%	1,450,000	-	700,000	-	750,000	750,000
U-2009 - 3.0 - 4.5%	23,450,000	-	825,000	-	22,625,000	875,000
W-2011 - 2.0 - 4.0%	23,350,000	-	550,000	-	22,800,000	550,000
X-2012 - 3.0 - 5.0%	9,150,000	-	485,000	-	8,665,000	515,000
Y-2013 - 3.0 - 4.0%	9,235,000	-	265,000	-	8,970,000	280,000
Z-2013 - 2.0 - 5.0%	24,150,000	-	475,000	-	23,675,000	500,000
AA-2014 - 2.0 - 4.0%	7,875,000	-	150,000	-	7,725,000	150,000
BB-2015 - 2.0 - 5.0%	23,005,000	-	170,000	-	22,835,000	100,000
CC-2015 - 2.0 - 4.0%	20,000,000	-	350,000	-	19,650,000	375,000
Total bonds	\$ 148,400,000	\$ -	\$ 4,410,000	\$ -	\$ 143,990,000	\$ 4,560,000
Unamortized premium	2,866,890	-	164,708	-	2,702,182	-
Total long term debt	\$ 151,266,890	\$ -	\$ 4,574,708	\$ -	\$ 146,692,182	\$ 4,560,000
<b>Wastewater</b>						
2005 B - 3.0 - 5.0%	\$ 16,045,000	\$ -	\$ 1,410,000	\$ -	\$ 14,635,000	\$ 1,470,000
2008 - 4.0 - 6.0%	11,000,000	-	4,450,000	-	6,550,000	4,600,000
2010 - 6.3 - 6.5%	30,000,000	-	-	-	30,000,000	-
2010C - 1.18 - 6.1%	65,750,000	-	1,250,000	-	64,500,000	1,400,000
2012A - 2.0 - 4.0%	15,415,000	-	820,000	-	14,595,000	840,000
2012B - 1.25 - 5.0%	63,275,000	-	925,000	-	62,350,000	975,000
2013A - 2.0 - 4.0%	112,325,000	-	610,000	-	111,715,000	620,000
2014A - 2.0 - 4.0%	29,625,000	-	425,000	-	29,200,000	450,000
2015A - 3.0 - 5.0%	129,825,000	-	465,000	-	129,360,000	125,000
2015B - 3.0 - 5.0%	30,000,000	-	575,000	-	29,425,000	450,000
Total bonds	\$ 503,260,000	\$ -	\$ 10,930,000	\$ -	\$ 492,330,000	\$ 10,930,000
Unamortized premium	11,625,190	-	558,966	-	11,066,224	-
Total long term debt	\$ 514,885,190	\$ -	\$ 11,488,966	\$ -	\$ 503,396,224	\$ 10,930,000
<b>Consolidated</b>						
Total Bonds	\$ 1,006,260,000	\$ -	\$ 29,830,000	\$ -	\$ 976,430,000	\$ 31,050,000
Total unamortized premium	28,631,810	-	1,646,269	-	26,985,541	-
Total long term debt	\$ 1,034,891,810	\$ -	\$ 31,476,269	\$ -	\$ 1,003,415,541	\$ 31,050,000

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

	Balance June 30, 2014	Additions	Payments	Defeased	Balance June 30, 2015	Amounts Due Within One Year
<b>Electric</b>						
W-2005 - 3.0 - 4.5%	\$ 33,140,000	\$ -	\$ 1,790,000	\$ -	\$ 31,350,000	\$ 1,870,000
X-2006 - 4.0 - 5.0%	3,550,000	-	1,725,000	-	1,825,000	1,825,000
Y-2009 - 2.5 - 5.0%	35,900,000	-	1,525,000	27,500,000	6,875,000	1,600,000
Z-2010 - 1.45 - 6.35%	26,470,000	-	1,265,000	-	25,205,000	1,285,000
AA-2012 - 3.0 - 5.0%	35,795,000	-	955,000	-	34,840,000	990,000
BB-2012 - 3.0 - 4.0%	34,500,000	-	625,000	-	33,875,000	650,000
CC-2013 - 3.0 - 4.0%	9,585,000	-	50,000	-	9,535,000	50,000
DD-2014 - 2.0 - 4.0%	-	40,000,000	-	-	40,000,000	675,000
EE-2015 - 2.0 - 5.0%	-	28,550,000	-	-	28,550,000	125,000
FF-2015 - 2.0 - 5.0%	-	35,000,000	-	-	35,000,000	-
Total bonds	\$ 178,940,000	\$ 103,550,000	\$ 7,935,000	\$ 27,500,000	\$ 247,055,000	\$ 9,070,000
Unamortized premium	5,779,555	5,617,592	411,968	639,853	10,345,326	-
Total long term debt	\$ 184,719,555	\$ 109,167,592	\$ 8,346,968	\$ 28,139,853	\$ 257,400,326	\$ 9,070,000
<b>Gas</b>						
L-2005 - 3.0 - 4.75%	\$ 11,380,000	\$ -	\$ 665,000	\$ -	\$ 10,715,000	\$ 695,000
N-2007 - 4.0 - 5.0%	12,000,000	-	-	11,450,000	550,000	-
O-2010 - 2.0 - 3.0%	6,825,000	-	3,350,000	-	3,475,000	3,475,000
P-2010 - 3.3 - 6.2%	12,000,000	-	-	-	12,000,000	-
Q-2012 - 2.0 - 4.0%	24,030,000	-	685,000	-	23,345,000	700,000
R-2012 - 2.0 - 4.0%	9,800,000	-	200,000	-	9,600,000	200,000
S-2013 - 2.0 - 4.0%	11,530,000	-	50,000	-	11,480,000	50,000
T-2013 - 2.0 - 4.6%	24,800,000	-	200,000	-	24,600,000	200,000
U-2015 - 2.0 - 3.5%	-	11,780,000	-	-	11,780,000	100,000
Total bonds	\$ 112,365,000	\$ 11,780,000	\$ 5,150,000	\$ 11,450,000	\$ 107,545,000	\$ 5,420,000
Unamortized premium	3,434,514	701,501	296,934	44,677	3,794,404	-
Total long term debt	\$ 115,799,514	\$ 12,481,501	\$ 5,446,934	\$ 11,494,677	\$ 111,339,404	\$ 5,420,000
<b>Water</b>						
R-2005 - 3.5 - 5.0%	\$ 255,000	\$ -	\$ 255,000	\$ -	\$ -	\$ -
S-2005 - 3.5 - 5.0%	7,160,000	-	425,000	-	6,735,000	440,000
T-2007 - 4.0 - 5.5%	24,350,000	-	675,000	22,225,000	1,450,000	700,000
U-2009 - 3.0 - 4.5%	24,250,000	-	800,000	-	23,450,000	825,000
W-2011 - 2.0 - 4.0%	23,900,000	-	550,000	-	23,350,000	550,000
X-2012 - 3.0 - 5.0%	9,610,000	-	460,000	-	9,150,000	485,000
Y-2013 - 3.0 - 4.0%	9,260,000	-	25,000	-	9,235,000	265,000
Z-2013 - 2.0 - 5.0%	24,600,000	-	450,000	-	24,150,000	475,000
AA-2014 - 2.0 - 4.0%	-	8,000,000	125,000	-	7,875,000	150,000
BB-2015 - 2.0 - 5.0%	-	23,005,000	-	-	23,005,000	170,000
CC-2015 - 2.0 - 4.0%	-	20,000,000	-	-	20,000,000	350,000
Total bonds	\$ 123,385,000	\$ 51,005,000	\$ 3,765,000	\$ 22,225,000	\$ 148,400,000	\$ 4,410,000
Unamortized premium	1,518,734	1,493,612	102,471	42,985	2,866,890	-
Total long term debt	\$ 124,903,734	\$ 52,498,612	\$ 3,867,471	\$ 22,267,985	\$ 151,266,890	\$ 4,410,000
<b>Wastewater</b>						
2005 A - 4.0 - 5.0%	\$ 36,550,000	\$ -	\$ -	\$ 36,550,000	\$ -	\$ -
2005 B - 3.0 - 5.0%	17,395,000	-	1,350,000	-	16,045,000	1,410,000
2007 - 4.0 - 5.0%	75,000,000	-	-	75,000,000	-	-
2008 - 4.0 - 6.0%	30,975,000	-	4,300,000	15,675,000	11,000,000	4,450,000
2010 - 6.3 - 6.5%	30,000,000	-	-	-	30,000,000	-
2010C - 1.18 - 6.1%	66,850,000	-	1,100,000	-	65,750,000	1,250,000
2012A - 2.0 - 4.0%	16,215,000	-	800,000	-	15,415,000	820,000
2012B - 1.25 - 5.0%	64,150,000	-	875,000	-	63,275,000	925,000
2013A - 2.0 - 4.0%	112,915,000	-	590,000	-	112,325,000	610,000
2014A - 2.0 - 4.0%	-	30,000,000	375,000	-	29,625,000	425,000
2015A - 3.0 - 5.0%	-	129,825,000	-	-	129,825,000	465,000
2015B - 3.0 - 5.0%	-	30,000,000	-	-	30,000,000	575,000
Total bonds	\$ 450,050,000	\$ 189,825,000	\$ 9,390,000	\$ 127,225,000	\$ 503,260,000	\$ 10,930,000
Unamortized premium	4,154,409	8,539,211	312,636	755,794	11,625,190	-
Total long term debt	\$ 454,204,409	\$ 198,364,211	\$ 9,702,636	\$ 127,980,794	\$ 514,885,190	\$ 10,930,000
<b>Consolidated</b>						
Total Bonds	\$ 864,740,000	\$ 356,160,000	\$ 26,240,000	\$ 188,400,000	\$ 1,006,260,000	\$ 29,830,000
Total unamortized premium	14,887,211	16,351,916	1,124,009	1,483,309	28,631,810	-
Total long term debt	\$ 879,627,211	\$ 372,511,916	\$ 27,364,009	\$ 189,883,309	\$ 1,034,891,810	\$ 29,830,000

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

---

Debt service over remaining term of the debt is as follows:

Fiscal Year	Principal	Interest	Total
2017	31,050,000	38,413,632	69,463,632
2018	32,195,000	37,216,662	69,411,662
2019	33,415,000	35,933,587	69,348,587
2020	34,810,000	34,573,291	69,383,291
2021	36,200,000	33,141,894	69,341,894
2022-2026	197,410,000	141,956,861	339,366,861
2027-2031	192,140,000	104,499,778	296,639,778
2032-2036	149,440,000	72,309,054	221,749,054
2037-2041	150,245,000	43,627,770	193,872,770
2042-2046	105,150,000	14,594,919	119,744,919
2047-2050	14,375,000	1,076,675	15,451,675
Total	\$ <u>976,430,000</u>	\$ <u>557,344,123</u>	\$ <u>1,533,774,123</u>

The Divisions have pledged sufficient revenue, after deduction of all current operating expenses (exclusive of tax equivalents), to meet bond principal and interest payments of revenue bonds when due. Such bond requirements are being met through monthly deposits to the bond funds as required by the bond covenants. As of June 30, 2016 these requirements had been satisfied.

During fiscal year 2006, KUB's Electric Division issued Series W 2005 bonds in part to retire certain existing debt and fund electric system capital improvements. Concurrent with the issuance of these bonds, KUB transferred funds to an irrevocable trust to pay a portion of the Series U 2001 bonds, as such amounts mature. During fiscal year 2009, KUB's Electric Division issued Series Y 2009 bonds to fund electric system capital improvements. During fiscal year 2011, KUB's Electric Division issued series Z 2010 bonds to fund electric system capital improvements. The bonds were issued as federally taxable Build America Bonds with a 35 percent interest payment rebate to be received from the United States Government for each interest payment. Effective October 1, 2015 these bonds became subject to a 6.8 percent reduction in rebate payment amounts due to the United States Government sequestration. The sequestration is effective until intervening Congressional action, at which time the sequestration rate is subject to change. During fiscal year 2012, KUB's Electric Division issued Series AA 2012 bonds to retire a portion of outstanding Series V 2004 bonds. During fiscal year 2013, KUB's Electric Division issued Series BB 2012 bonds to fund electric system capital improvements. KUB's Electric Division also issued Series CC 2013 bonds to retire a portion of outstanding Series X 2006 bonds. During fiscal year 2015, KUB's Electric Division issued Series EE 2015 bonds to retire a portion of outstanding Series Y 2009 bonds. KUB's Electric Division also issued Series DD 2014 and Series FF 2015 to fund electric system capital improvements. In prior years, certain revenue bonds were defeased by placing the proceeds of new bonds in an irrevocable trust to provide for all future debt service payments on the old bonds. Accordingly, the liability for the defeased bonds, \$27.5 million at June 30, 2016, and the trust account assets are not included in the financial statements.

During fiscal year 2006, KUB's Gas Division issued Series L 2005 bonds in part to retire certain existing debt and fund gas system capital improvements. Concurrent with the issuance of these bonds, KUB transferred funds to an irrevocable trust to pay a portion of the Series J 2001 bonds, as such amounts mature. During fiscal year 2008, KUB's Gas Division issued Series N 2007 to fund gas system capital improvements. During fiscal year 2011, KUB's Gas Division issued Series P 2010 bonds to fund gas system capital improvements. The bonds were issued as federally taxable Build America Bonds with a 35 percent interest payment rebate to be received from the United States Government for each interest payment. Effective October 1, 2015, these bonds became subject to a 6.8 percent reduction in rebate payment amounts due to the United States Government sequestration. The sequestration is effective until intervening Congressional action, at

# Knoxville Utilities Board

## Notes to Consolidated Financial Statements

### June 30, 2016 and 2015

---

which time the sequestration rate is subject to change. During fiscal year 2012, KUB's Gas Division issued Series Q 2012 bonds to retire Series K 2004 bonds. During fiscal year 2013, KUB's Gas Division issued Series R 2012 bonds to fund gas system capital improvements. KUB's Gas Division also issued Series S 2013 bonds to retire Series M 2006 outstanding bonds. During fiscal year 2014, KUB's Gas Division issued Series T 2013 to fund gas system capital improvements. During fiscal year 2015, KUB's Gas Division issued Series U 2015 bonds to retire Series N 2007 outstanding bonds. In prior years, certain revenue bonds were defeased by placing the proceeds of new bonds in an irrevocable trust to provide for all future debt service payments on the old bonds. Accordingly, the liability for the defeased bonds, \$11.5 million at June 30, 2016, and the trust account assets are not included in the financial statements.

During fiscal year 2006, KUB's Water Division issued Series S 2005 bonds to retire certain existing debt and fund water system capital improvements. Concurrent with the issuance of these bonds, KUB transferred funds to an irrevocable trust to pay a portion of the Series P 2001 bonds, as such amounts mature. During fiscal year 2008, KUB's Water Division issued Series T 2007 bonds to fund water system capital improvements. During fiscal year 2010, KUB's Water Division issued Series U 2009 bonds to fund water system capital improvements. During fiscal year 2012, KUB's Water Division issued Series W 2011 bonds to fund water system capital improvements. KUB's Water Division also issued Series X 2012 bonds to retire Series Q 2004 bonds. During fiscal year 2013, KUB's Water Division issued Series Y 2013 bonds to retire a portion of outstanding Series R 2005 bonds. During fiscal year 2014, KUB's Water Division issued Series Z 2013 bonds to fund water system capital improvements. During fiscal year 2015, KUB's Water Division issued Series BB 2015 bonds to retire a portion of outstanding Series T 2007 bonds. KUB's Water Division also issued Series AA 2014 and Series CC 2015 bonds to fund water system capital improvements. In prior years, certain revenue bonds were defeased by placing the proceeds of new bonds in an irrevocable trust to provide for all future debt service payments on the old bonds. Accordingly, the liability for the defeased bonds, \$22.2 million at June 30, 2016, and the trust account assets are not included in the financial statements.

During fiscal year 2006, KUB's Wastewater Division issued Series 2005B bonds in part to retire certain existing debt and fund wastewater system capital improvements. Concurrent with the issuance of these bonds, KUB transferred funds to an irrevocable trust to pay a portion of the Series 1998 bonds and Series 2001A bonds, as such amounts mature. During fiscal year 2009, KUB's Wastewater Division issued Series 2008 bonds to fund wastewater system capital improvements. During fiscal year 2010, KUB's Wastewater Division issued Series 2010 bonds to fund capital improvements. These bonds were issued as federally taxable Build America Bonds with a 35 percent interest payment rebate to be received from the United States Government for each interest payment. Effective October 1, 2015, these bonds became subject to a 6.8 percent reduction in rebate payment amounts due to the United States Government sequestration. The sequestration is effective until intervening Congressional action, at which time the sequestration rate is subject to change. During fiscal year 2011, KUB's Wastewater Division issued Series 2010C bonds to fund capital improvements. These bonds were issued as federally taxable Build America Bonds with a 35 percent interest payment rebate to be received from the United States Government for each interest payment. Effective October 1, 2015, these bonds became subject to a 6.8 percent reduction in rebate payment amounts due to the United States Government sequestration. The sequestration is effective until intervening Congressional action, at which time the sequestration rate is subject to change. During fiscal year 2012, KUB's Wastewater Division issued Series 2012A bonds to retire Series 2004A bonds. During fiscal year 2013, KUB's Wastewater Division issued Series 2012B bonds to fund wastewater system capital improvements. KUB's Wastewater Division also issued Series 2013A bonds to retire a portion of outstanding Series 2005A bonds. During fiscal year 2015, KUB's Wastewater Division issued Series 2015A bonds to retire a portion of outstanding Series 2005A, Series 2007, and Series 2008 bonds. KUB's Wastewater Division also issued Series 2014A and Series 2015B bonds to fund wastewater system capital improvements. In prior years, certain revenue bonds were defeased by placing the proceeds of new bonds in an irrevocable trust to provide for all future debt service payments on the old bonds. Accordingly, the liability for the

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

---

deceased bonds, \$90.7 million at June 30, 2016, and the trust account assets are not included in the financial statements.

Other liabilities consist of the following:

	<b>Balance June 30, 2015</b>	<b>Increase</b>	<b>Decrease</b>	<b>Balance June 30, 2016</b>
TVA conservation program	\$ 10,336,682	\$ 1,174,926	\$ (3,098,755)	\$ 8,412,853
Accrued compensated absences	8,616,844	16,943,202	(16,498,820)	9,061,226
Customer advances for construction	2,305,058	1,499,982	(1,557,441)	2,247,599
Other	478,797	411,126	(586,250)	303,673
	<u>\$ 21,737,381</u>	<u>\$ 20,029,236</u>	<u>\$ (21,741,266)</u>	<u>\$ 20,025,351</u>

**7. Lease Commitments**

KUB has non-cancelable operating lease commitments for office equipment, property, and vehicles, summarized for the following fiscal years:

2017	\$ 256,776
2018	241,790
2019	141,959
2020	8,189
Total operating minimum lease payments	<u>\$ 648,714</u>

*(Space left intentionally blank)*

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

**8. Capital Assets**

Capital asset activity was as follows:

	<b>Balance</b>				<b>Balance</b>
	<b>June 30, 2015</b>	<b>Increase</b>	<b>Decrease</b>		<b>June 30, 2016</b>
<b>Production Plant (Intakes)</b>	\$ 742,503	\$ -	\$ -		\$ 742,503
<b>Pumping and Treatment Plant</b>	272,156,011	27,948,957	(2,131,084)		297,973,884
<b>Distribution and Collection Plant</b>					
Mains and metering	856,463,692	90,187,145	(11,856,977)		934,793,860
Services and meters	155,306,743	10,562,942	(4,890,909)		160,978,776
Electric station equipment	125,338,097	27,775,476	(880,406)		152,233,167
Poles, towers and fixtures	134,306,063	14,897,225	(1,142,671)		148,060,617
Overhead conductors	128,493,727	9,622,260	(1,341,285)		136,774,702
Line transformers	92,547,983	5,192,889	(897,720)		96,843,152
Other accounts	290,373,861	11,327,465	(1,291,052)		300,410,274
<b>Total Distribution &amp; Collection Plant</b>	<u>\$ 1,782,830,166</u>	<u>\$ 169,565,402</u>	<u>\$ (22,301,020)</u>		<u>\$ 1,930,094,548</u>
<b>General Plant</b>	154,807,001	16,109,904	(2,304,757)		168,612,148
<b>Total Plant Assets</b>	<u>\$ 2,210,535,681</u>	<u>\$ 213,624,263</u>	<u>\$ (26,736,861)</u>		<u>\$ 2,397,423,083</u>
Less Accumulated Depreciation	(753,200,620)	(70,652,307)	26,328,506		(797,524,421)
<b>Net Plant Assets</b>	<u>\$ 1,457,335,061</u>	<u>\$ 142,971,956</u>	<u>\$ (408,355)</u>		<u>\$ 1,599,898,662</u>
Work In Progress	193,812,149	164,049,004	(214,654,664)		143,206,489
<b>Total Net Plant</b>	<u><u>\$ 1,651,147,210</u></u>	<u><u>\$ 307,020,960</u></u>	<u><u>\$ (215,063,019)</u></u>		<u><u>\$ 1,743,105,151</u></u>

	<b>Balance</b>				<b>Balance</b>
	<b>June 30, 2014</b>	<b>Increase</b>	<b>Decrease</b>		<b>June 30, 2015</b>
<b>Production Plant (Intakes)</b>	\$ 742,503	\$ -	\$ -		\$ 742,503
<b>Pumping and Treatment Plant</b>	268,416,043	4,348,531	(608,563)		272,156,011
<b>Distribution and Collection Plant</b>					
Mains and metering	827,485,705	32,368,532	(3,390,545)		856,463,692
Services and meters	150,206,800	7,460,515	(2,360,572)		155,306,743
Electric station equipment	120,964,151	6,556,645	(2,182,699)		125,338,097
Poles, towers and fixtures	124,328,627	12,739,496	(2,762,060)		134,306,063
Overhead conductors	120,168,100	9,163,450	(837,823)		128,493,727
Line transformers	90,103,801	3,298,379	(854,197)		92,547,983
Other	282,320,215	8,891,602	(837,956)		290,373,861
<b>Total Distribution &amp; Collection Plant</b>	<u>\$ 1,715,577,399</u>	<u>\$ 80,478,619</u>	<u>\$ (13,225,852)</u>		<u>\$ 1,782,830,166</u>
<b>General Plant</b>	146,172,851	10,527,779	(1,893,629)		154,807,001
<b>Total Plant Assets</b>	<u>\$ 2,130,908,796</u>	<u>\$ 95,354,929</u>	<u>\$ (15,728,044)</u>		<u>\$ 2,210,535,681</u>
Less Accumulated Depreciation	(706,864,663)	(63,051,875)	16,715,918		(753,200,620)
<b>Net Plant Assets</b>	<u>\$ 1,424,044,133</u>	<u>\$ 32,303,054</u>	<u>\$ 987,874</u>		<u>\$ 1,457,335,061</u>
Work In Progress	124,829,743	164,644,375	(95,661,969)		193,812,149
<b>Total Net Plant</b>	<u><u>\$ 1,548,873,876</u></u>	<u><u>\$ 196,947,429</u></u>	<u><u>\$ (94,674,095)</u></u>		<u><u>\$ 1,651,147,210</u></u>

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

---

**9. Risk Management**

KUB is exposed to various risks of loss related to active and retiree medical claims; injuries to workers; theft of, damage to, and destruction of assets; environmental damages; and natural disasters. Claims expenditures and liabilities are reported when it is probable that a loss has occurred and the amount of that loss can be reasonably estimated. These losses include an estimate of claims that have been incurred but not reported.

These liabilities are included in accrued expenses in the Statement of Net Position. The liability is KUB's best estimate based on available information. At June 30, 2016 and 2015, the amount of these liabilities was \$1,758,352 and \$1,699,525, respectively, resulting from the following changes:

	<b>2016</b>	<b>2015</b>
Balance, beginning of year	\$ 1,699,525	\$ 1,572,570
Current year claims and changes in estimates	14,043,332	14,222,337
Claims payments	<u>(13,984,505)</u>	<u>(14,095,382)</u>
Balance, end of year	<u>\$ 1,758,352</u>	<u>\$ 1,699,525</u>

**10. Pension Plan**

**Description of Plan**

The Knoxville Utilities Board Pension Plan (the Plan) is a governmental plan as defined by the Employee Retirement Income Security Act of 1974 ("ERISA" or the "Act"), is not subject to any of the provisions of the Act, and was revised January 1, 2014 to include all prior approved amendments. The Plan is a single-employer contributory, defined benefit pension plan established by Knoxville Utilities Board ("KUB") Resolution No. 980 dated February 18, 1999, effective July 1, 1999, as authorized by the Charter of the City of Knoxville §1107(J). The Plan is designed to provide retirement, disability and death benefits to KUB employees. KUB administers the Plan through an Administrative Committee consisting of seven KUB employees that are appointed by KUB's President and CEO. Any amendments to the Plan involving costs not approved in the operating budget must be adopted by KUB's Board of Commissioners, upon recommendation by KUB's President and CEO. All other amendments to the Plan may be approved by KUB's President and CEO upon 60 days notification to the KUB Audit and Finance Committee. The Plan issues a financial report, which includes financial statements and required supplementary information. The report may be obtained by writing the Knoxville Utilities Board Retirement System, P.O. Box 59017, Knoxville, TN 37950-9017.

Effective January 1, 2011, KUB closed the Plan such that persons employed or re-employed by KUB on or after January 1, 2011, are not eligible to participate, but that eligible employees hired prior to January 1, 2011, who have not separated from service, shall continue as Participants and to accrue benefits under the Plan.

Participants in the Plan consisted of the following as of December 31:

	<b>2015</b>	<b>2014</b>
Inactive plan members:		
Terminated vested participants	39	40
Retirees and beneficiaries	628	627
Active plan members	<u>692</u>	<u>725</u>
Total	<u>1,359</u>	<u>1,392</u>

# **Knoxville Utilities Board**

## **Notes to Consolidated Financial Statements**

### **June 30, 2016 and 2015**

---

#### **Retirement Benefits**

The Plan provides three benefit arrangements for KUB participants, retirees, and beneficiaries.

The Plan provides pension benefits through the Career Equity Program (“CEP”) for eligible employees hired on or after January 1, 1999, and for eligible former “City System Plan A” participants who elected CEP coverage as of July 1, 1999. The guaranteed pension benefit payable to a participant who has completed five or more years of service (or reached the normal retirement date, if earlier) upon termination of KUB employment shall be a lump sum equal to the participant’s average compensation times their benefit percentage, as defined in the Plan document, or an annuity may be chosen by the participant.

In addition, the Plan provided retirement benefits through “Plan A” for former City System Plan A participants who elected not to participate in the CEP. Plan A is a closed plan and is not available to KUB employees hired after July 1, 1999. Plan A provides for early retirement benefits with 25 years of service and normal retirement benefits at age 62 or later. Benefits provided to Plan A participants include several different forms of monthly annuity payments.

The Plan also provides retirement benefits through “Plan B” for former “City System Plan B” participants. Plan B is a closed plan providing benefits to participants not covered by Social Security. Benefits provided to Plan B participants include several different forms of monthly annuity payments available to participants.

Effective January 1, 2012, KUB began to provide for additional monthly supplements, which will not be subject to cost of living adjustments, to certain former employees and surviving dependents of former employees who are eligible for and have elected coverage under the KUB retiree medical plan and are eligible for Medicare. This was done to address the loss of drug coverage under the KUB retiree medical plan and to assist such individuals in obtaining prescription drug coverage under Medicare Part D.

#### **Contributions**

Participation in Plan A requires employee contributions of 3% of the first \$4,800 of annual earnings and 5% of annual earnings in excess of \$4,800. Plan B participants may not make contributions to the Plan. KUB contributions are determined by the enrolled actuary of the Plan and equal the amount necessary to provide the benefits under the Plan determined by the application of accepted actuarial methods and assumptions. The method of funding shall be consistent with Plan objectives.

#### **Plan Funding**

KUB maintains a Funding Policy for the Plan in accordance with Tennessee State Law. The primary goal of the Policy is to document the method KUB has adopted to provide assurance that future KUB and employee contributions and current Plan assets will be sufficient to fund all benefits expected to be paid to current active, inactive and retired Plan participants and their beneficiaries. Per the Funding Policy, KUB fully funds its annual Actuarially Determined Contribution.

#### **Investments**

The Plan’s investments are held by State Street Bank and Trust Company (the “Trustee”). The Plan’s policy in regard to the allocation of invested assets is established by the Investment Committee and approved by the KUB Board of Commissioners and may only be amended by the KUB Board of Commissioners. It is the policy of the Investment Committee to pursue an investment strategy that reduces risk through the prudent diversification of the portfolio across a broad selection of distinct asset classes. The following was the Plan’s adopted asset allocation policy as of December 31, 2015:

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

---

Asset Class	Target Allocation
Domestic equity – large cap	20% - 50%
Domestic equity – mid cap	0% - 15%
Domestic equity – small cap	0% - 15%
Domestic equity - convertible securities	0% - 10%
Non-U.S. equity	0% - 20%
Real estate equity	0% - 10%
Fixed income – aggregate bonds	5% - 25%
Fixed income – long-term bonds	10% - 25%
Cash and deposits	0% - 5%

Contributions of \$5,669,380 and \$6,314,399 for 2014 and 2013, respectively, were made during KUB's fiscal years ending June 30, 2016 and 2015, respectively. The contribution was determined as part of the January 1, 2014 valuation using the Individual Entry Age Normal funding method. The objective under this method is to fund each participant's benefits under the Plan as payments which are level as a percentage of salary, starting on the original participation date (employment date) and continuing until the assumed retirement, termination, disability or death. The actuarial valuation for the Plan year ending December 31, 2015 resulted in an actuarially determined contribution of \$4,816,913 for the fiscal year ending June 30, 2017, based on the Plan's current funding policy.

Subsequent to June 30, 2016, the actuarial valuation for the Plan year ending December 31, 2016 was completed. The actuarial valuation resulted in an actuarially determined contribution of \$3,756,283 for the fiscal year ending June 30, 2018, based on the Plan's current funding policy. For the Plan year ending December 31, 2016, the Plan's actuarial funded ratio was 103.04 percent.

The actuarial valuations for the Plan years ending December 31, 2015 and 2016, which determine the actuarially determined contribution for future fiscal years ending June 30, 2017 and 2018, have not been audited.

**Implementation of GASB 68**

In fiscal year 2015, KUB adopted GASB Statement No. 68, *Accounting and Financial Reporting for Pensions – an amendment of GASB Statement No. 27* ("GASB 68"), which requires measurement of the net pension liability as total pension liability less the amount of the Plan's fiduciary net position. The amounts reported as of June 30 must be based upon a plan measurement date within the prior twelve months. Therefore, KUB's measurements as of June 30, 2016 and 2015 will be based on the December 31, 2015 and 2014 measurement date, respectively.

GASB 68 requires certain disclosures related to the net pension liability of the Plan as disclosed below:

	2015	2014
Total pension liability	\$ 204,502,350	\$ 202,773,764
Plan fiduciary net position	199,462,190	(208,795,394)
Plan's net pension liability (asset)	<u>\$ 5,040,160</u>	<u>\$ (6,021,630)</u>

Plan fiduciary net position as a percentage of the total pension liability	97.54%	102.97%
--	--------	---------

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

Changes in Net Pension Liability are as follows:

	Total Pension Liability (a)	Increase (Decrease) Plan Fiduciary Net Position (b)	Net Pension Liability (a) - (b)
Balances at December 31, 2014	\$ 202,773,764	\$ 208,795,394	\$ (6,021,630)
Changes for the year:			
Service cost	4,157,062	-	4,157,062
Interest	14,812,784	-	14,812,784
Differences between Expected and Actual Experience	(1,890,334)	-	(1,890,334)
Changes of Assumptions	-	-	-
Contributions - employer	-	5,991,887	(5,991,887)
Contributions - rollovers	-	482,060	(482,060)
Contributions - member	-	5,486	(5,486)
Net investment income	-	(64,551)	64,551
Benefit payments	(15,350,926)	(15,350,926)	-
Administrative expense	-	(397,160)	397,160
Net changes	1,728,586	(9,333,204)	11,061,790
Balances at December 31, 2015	\$ 204,502,350	\$ 199,462,190	\$ 5,040,160

*Actuarial Assumptions*

The total pension liability was determined by an actuarial valuation as of December 31, 2015 and 2014, using the following actuarial assumptions, applied to all periods included in the measurement:

Actuarial cost method:	Individual entry age
Asset valuation method:	5-year smoothed market
Amortization method:	Level dollar closed period with 28 years remaining as of January 1, 2013 and 27 years remaining as of January 1, 2014
Discount rate:	8% at January 1, 2013 and 7.5% at January 1, 2014
Salary increases:	From 2.58% to 7.92% for January 1, 2013 and from 2.80% to 5.15% for January 1, 2014, based on years of service
Mortality:	Sex distinct RP-2000 Combined Mortality projected to 2018 using Scale AA for the January 1, 2013 valuation. Sex distinct RP-2000 Combined Mortality projected to 2024 using Scale AA for the January 1, 2014 valuation
Inflation	2.8 percent

The actuarial assumptions used in the December 31, 2015 valuation were based on the results of an actuarial experience study for the period January 1, 2009 through December 31, 2013.

The long-term expected rate of return on Plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of Plan investment expense and inflation) are developed for each major asset class. These ranges 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. Best estimates of arithmetic real rates of return for each major asset class included in the Plan's target asset allocation as of December 31, 2015

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

---

and 2014 are summarized in the following table. The real rate of return reported for fixed income is for aggregate fixed income. The Plan has both aggregate and long duration fixed income.

<b>Asset Class</b>	<b>Long Term Expected Real Rate of Return</b>	
	<b>2015</b>	<b>2014</b>
Domestic equity	7.2%	6.0%
Non-U.S. equity	7.4%	7.0%
Real estate equity	6.5%	5.7%
Fixed income	3.7%	1.8%
Cash and deposits	2.6%	0.5%

*Discount rate*

The discount rate used to measure the total pension liability was 7.5 percent as of January 1, 2015 and 2014. The projection of cash flows used to determine the discount rate assumed that participant contributions will be made at the current contribution rate and that KUB contributions will be made at rates equal to the actuarially determined contribution rates. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of 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 net pension liability to changes in the discount rate*

The following presents the net pension liability of the Plan as of December 31, 2015, calculated using the discount rate of 7.5 percent, as well as what the Plan's net pension liability would be if it were calculated using a discount rate that is one percent lower (6.5 percent) or one percent higher (8.5 percent) than the current rate:

	<b>1% Decrease (6.5%)</b>	<b>Current Discount Rate (7.5%)</b>	<b>1% Increase (8.5%)</b>
Plan's net pension liability	\$ 17,128,897	\$ 5,040,160	\$ (5,963,331)

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

---

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

For the year ended June 30, 2015, KUB recognized pension expense of \$2,749,905.

The impact of experience gains or losses and assumption changes on the Total Pension Liability are recognized in expense over the average expected remaining service life of all active and inactive members. As of the measurement date, this recognition period was 3.72 years. However, there were no experience gains or losses, and there were no assumption changes during the measurement year.

The impact of investment gains or losses is recognized over a period of five years. During the measurement year, there was an investment gain of \$7,972,887. \$1,594,577 of that gain was recognized in the current year and an identical amount will be recognized in each of the next four years, resulting in a deferred inflow of resources of \$6,378,310.

The table below summarizes the current balances of deferred outflows and deferred inflows of resources along with the net recognition over the next five years. In addition, KUB recorded a deferred outflow of resources of \$3,157,199 at June 30, 2015 for employer contributions made between December 31, 2014 and June 30, 2015.

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ -	\$ -
Changes in assumptions	-	-
Net difference between projected and actual earnings on pension plan investments	-	6,378,310
Contributions subsequent to measurement date	3,157,199	-
Total	<u>\$ 3,157,199</u>	<u>\$ 6,378,310</u>

For the year ended June 30, 2016, KUB recognized pension expense of \$4,665,035.

The impact of experience gains or losses and assumption changes on the Total Pension Liability are recognized in the pension expense over the average expected remaining service life of all active and inactive members, determined as of the beginning of the measurement period. As of December 31, 2014, this average was 5.00 years. During the measurement year, there were no assumption or benefit changes. There was an experience gain of \$1,890,334 with \$378,067 of that recognized in the current year and in each of the next four years.

The impact of investment gains or losses is recognized over a period of five years. During the measurement year, there was an investment loss of \$15,382,915. \$3,076,583 of that loss was recognized in the current year and an identical amount will be recognized in each of the next four years. Unrecognized investment gains from prior periods were \$6,378,310 of which \$1,594,577 was recognized as a reduction in pension expense in the current year.

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

---

Experience gains this year created a deferred inflow of resources of \$1,512,267. The combination of unrecognized investment losses this year along with unrecognized net investment gains from prior periods results in a deferred outflow of resources as of December 31, 2015 of \$7,522,599. The table below summarizes the current balances of deferred outflows and deferred inflows of resources along with the net recognition over future years. In addition, KUB recorded a deferred outflow of resources of \$2,834,692 at June 30, 2016 for employer contributions made between December 31, 2015 and June 30, 2016.

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ -	\$ 1,512,267
Changes in assumptions	-	-
Net difference between projected and actual earnings on pension plan investments	7,522,599	-
Contributions subsequent to measurement date	2,834,692	-
Total	<u>\$ 10,357,291</u>	<u>\$ 1,512,267</u>

Amounts reported as deferred outflows and deferred inflows of resources will be recognized in pension expense as follows:

Year ended June 30:	
2017	\$ 3,938,630
2018	1,103,939
2019	1,103,938
2020	2,698,517
Thereafter	-

**11. Defined Contribution Plan**

The KUB Asset Accumulation 401(k) Plan (the "401(k) Plan") is a defined contribution 401(k) employee retirement savings plan covering eligible KUB employees established by the KUB Board of Commissioners in accordance with the Charter of the City of Knoxville, Tennessee. The 401(k) Plan's assets are held in trust under an agreement between KUB and Fidelity Management Trust Company. Employees hired prior to January 1, 2011 may participate and receive a matching contribution of 50 percent of their own contribution up to a maximum match of 3 percent. Employees hired on or after January 1, 2011 have an enhanced 401(k) due to the closure of the Defined Benefit Pension Plan. They may participate and receive a matching contribution of 50 percent of their own contribution up to a maximum match of 3 percent. They also receive a nonelective KUB contribution of from 3 percent to 6 percent, depending on years of service, whether they contribute or not.

Matching contributions were previously remitted to the KUB Pension Plan (a separate defined benefit plan) in the name of the participant for employees hired prior to January 1, 2011. As of December 9, 2015, these Pension match assets moved from the KUB Pension Plan to the 401(k) Plan. Effective December 9, 2015, all matching contributions are remitted to the 401(k) Plan. The match and nonelective contributions for employees hired on or after January 1, 2011 are paid directly by KUB. KUB funded 401(k) matching contributions and nonelective contributions of \$1,739,057 and \$1,593,350, respectively, for the years ended June 30, 2016 and 2015.

# Knoxville Utilities Board

## Notes to Consolidated Financial Statements

### June 30, 2016 and 2015

---

#### 12. Other Post-Employment Benefits (OPEB)

The Governmental Accounting Standards Board (GASB) established standards for the measurement, recognition, and reporting of other post-employment benefits (OPEB). OPEB includes post-employment benefits other than pension, which, for KUB, is presently limited to post-employment health care. GASB Statement No. 45 (Statement No. 45) requires the recognition of the accrued OPEB liability for the respective year, plus the disclosure of the total unfunded liability.

KUB currently provides post-employment health care benefits to 585 former employees and 593 covered dependents. The cost of coverage is shared with retirees and beneficiaries. KUB recognizes its share of the cost of post-employment health care benefits as an expense as claims are paid.

KUB amended its Group Health Plan in 1999, eliminating post-employment health care benefits for all employees hired on or after July 1, 1999. As of June 30, 2016, 356 active employees were eligible for individual and dependent coverage at separation. To qualify, the employee must meet the Rule of 80 (age plus years of service) with a minimum of 20 years of service, and be enrolled in medical coverage on their last day.

In May 2006, the State of Tennessee adopted Tennessee Code Annotated, Title 8, Chapter 50, Part 12 authorizing governmental entities to establish Trusts for the purpose of pre-funding their respective OPEB liabilities.

Although Statement No. 45 does not require pre-funding of the liability, KUB has determined that it is in the long-term economic interest of KUB and its ratepayers to establish a Trust to pre-fund KUB's OPEB liability.

Knoxville Utilities Board Other Post-Employment Benefits Trust (the "Trust") is a single-employer Other Post-Employment Benefits Plan established by the Knoxville Utilities Board (KUB) Board of Commissioners through Resolution No. 1168, as amended, dated October 18, 2007. The applicable documentation was submitted to the State Funding Board and, in December 2007, the State Funding Board approved the Trust. The Trust was also approved by the Internal Revenue Service in June 2008. KUB administers the Trust through a Board of Trustees consisting of seven KUB employees that are appointed by KUB's President and CEO. Any amendments to the Trust involving costs not approved in the operating budget must be approved by KUB's Board of Commissioners, upon recommendation by KUB's President and CEO. All other amendments to the Trust may be approved by KUB's President and CEO upon 60 days notification to the KUB Audit and Finance Committee. The investment of all deposits to the Trust is governed by an Investment Policy, which was adopted by the KUB Board and approved by the State Funding Board.

KUB makes annual contributions to the Trust at an actuarially determined rate. Based on the date of retirement, certain retired plan members are required to contribute specified amounts monthly to maintain health insurance. Those who retired prior to July 1983 have no required monthly premiums for themselves or dependents. The retirees, or their surviving dependents, who retired between August 1983 and January 1998 are required to pay \$250 per month for pre-Medicare family health insurance. For individuals who retired after January 1998, the required monthly premium for pre-Medicare health insurance is \$250 for single coverage and \$500 for family coverage. There is currently no premium for Medicare eligible retirees or dependents.

An actuarial valuation of KUB's Postretirement Benefit Plan was performed for the Trust as of January 1, 2014 for fiscal year June 30, 2015 and January 1, 2015 for fiscal year June 30, 2016. The following table presents the OPEB cost for the year, the amount contributed to the Trust, and changes in the net OPEB obligation for fiscal year ending June 30:

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

	2016	2015
a) Net OPEB Obligation/(Asset) at beginning of fiscal year	\$ (174,410)	\$ (177,322)
b) Annual Required Contribution (ARC)	953,221	3,497,372
c) Interest on Net OPEB Obligation/(Asset)	(13,081)	(14,186)
d) Adjustment to ARC	(16,427)	(17,098)
e) Annual OPEB Cost (b+c-d)	<u>956,567</u>	<u>3,500,284</u>
f) Employer Contributions	953,221	3,497,372
g) Net OPEB Obligation/(Asset) at end of fiscal year (a+e-f)	<u>\$ (171,064)</u>	<u>\$ (174,410)</u>

KUB's annual OPEB cost, the percentage of annual OPEB cost contributed to the Trust, and the net OPEB obligation for fiscal year 2016 and the two preceding years were as follows:

**Schedule of Employer Contributions**

Actuarial Valuation Date	Employer Fiscal Year	Annual Required Contribution	Fiscal Year Actual Contribution	Percentage Contributed	Net OPEB Obligation
1/1/2012	6/30/2014	3,327,412	4,057,091	121.93%	(177,322)
1/1/2013	6/30/2015	3,497,372	3,497,372	100.00%	(174,410)
1/1/2014	6/30/2016	953,221	953,221	100.00%	(171,064)

Total contributions to the OPEB Trust for the fiscal year ended June 30, 2016 were \$953,221. The contribution to the Trust was consistent with the annual required contribution, as determined by the Postretirement Benefit Plan's actuarial valuation as of January 1, 2014, which was \$953,221. As of June 30, 2016, the employer's OPEB obligation has been exceeded by \$171,064.

The annual required contribution for the fiscal year ending June 30, 2017, as determined by the Plan's actuarial valuation as of January 1, 2015 is \$620,015.

The actuarial valuation for the Plan as of January 1, 2016 has been completed. The valuation determined that the Plan's actuarial accrued liability was \$45,118,624. The actuarial value of the Plan's assets was \$48,510,796. As a result, the Plan's unfunded actuarial accrued liability was (\$3,392,172). The Plan's actuarial funded ratio was 108 percent. Due to the future implementation of GASB 75, the contributions made for fiscal year ending June 30, 2018 will be the actuarially determined contribution instead of the annual required contribution and the actuarial cost method used to determine the contributions will change from the projected unit credit cost method to the entry age normal cost method. The actuarially determined contribution for fiscal year ending June 30, 2018 will be zero. See Required Supplementary Information for OPEB Schedule of Funding Progress.

The actuarial valuations dated January 1, 2015 and 2016, which determine the annual required contribution and actuarially determined contribution for future fiscal years ending June 30, 2017 and 2018, have not been audited.

Actuarial valuations involve estimates of the value of reported amounts and assumptions about the probability of events far into the future, and actuarially determined amounts are subject to continual revision as actual results are compared to past expectations and new estimates are made about the future.

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

---

The required schedule of funding progress immediately following the notes to the financial statements presents multi-year trend information about whether the actuarial value of Trust assets is increasing or decreasing over time relative to the actuarial accrued liability for benefits.

Calculations are based on the benefits provided under the terms of the substantive plan in effect at the time of each valuation and on the pattern of sharing of costs between the employer and plan members to that point.

Actuarial calculations reflect a long-term perspective. Consistent with that perspective, actuarial methods and assumptions used include techniques that are designed to reduce short-term volatility in actuarial accrued liabilities and the actuarial value of assets.

Identification of actuarial methods and significant assumptions used to determine the annual required contribution for the fiscal year ending June 30, 2016:

I. Actuarial cost method	Projected unit credit cost method
II. Actuarial value of assets	Smoothed market value with phase-in method using a smoothing period of 5 years
III. Investment return	7.5%, based on the expected portfolio return
Projected salary increases	N/A
Healthcare cost Trend:	
Medicare	2014 - 2030+, ranging from 4.5% to 7.45%
Non-Medicare	2014 - 2030+, ranging from 4.5% to 8.75%
IV. Amortization method	Level dollar closed (30-year)
Remaining amortization period	22 years

The Trust issues a financial report, which includes financial statements and required supplementary information. The report may be obtained by writing the Knoxville Utilities Board Retirement System, P.O. Box 59017, Knoxville, TN 37950-9017.

**13. Related Party Transactions**

KUB, in the normal course of operations, is involved in transactions with the City of Knoxville. Such transactions for the years ended June 30, 2016 and 2015 are summarized as follows:

	<b>2016</b>	<b>2015</b>
City of Knoxville		
Amounts billed by KUB for utilities and related services	\$ 14,383,228	\$ 14,250,324
Payments by KUB in lieu of property tax	17,428,232	16,535,897
Payments by KUB for services provided	2,183,335	1,804,675

With respect to these transactions, accounts receivable from the City of Knoxville included in the balance sheet at year end were:

	<b>2016</b>	<b>2015</b>
Accounts receivable	\$ 902,254	\$ 869,815

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

**14. Natural Gas Supply Contract Commitments**

For fiscal year 2016, the Gas Division hedged 67 percent of its total gas purchases via gas supply contracts. As of June 30, 2016, the Gas Division had hedged the price on approximately 20 percent of its anticipated gas purchases for fiscal year 2017.

KUB contracts separately for the purchase, transportation and storage of natural gas. Purchase commitments for the next five years are as follows:

Firm obligations related to purchased gas – demand

	2017	2018	2019	2020	2021
Transportation					
Tennessee Gas Pipeline	\$ 3,269,844	\$ 3,269,844	\$ 3,269,844	\$ 1,089,948	\$ -
East Tennessee Natural Gas	10,066,388	10,066,388	10,066,388	2,748,496	-
Storage					
Tennessee Gas Pipeline	1,787,976	1,787,976	1,787,976	595,992	-
East Tennessee Natural Gas	757,460	757,460	757,460	-	-
Saltville Natural Gas	1,870,560	1,548,030	580,440	435,330	-
Demand Total	\$ <u>17,752,228</u>	\$ <u>17,429,698</u>	\$ <u>16,462,108</u>	\$ <u>4,869,766</u>	\$ <u>-</u>

Firm obligations related to purchased gas – commodity

	2017	2018	2019	2020	2021
Baseload					
Conoco	\$ 5,719,700	\$ -	\$ -	\$ -	\$ -
Shell Energy	739,680	-	-	-	-
BP	6,104,693	6,181,363	5,874,650	1,801,950	-
CNX	1,709,713	1,648,048	-	-	-
Commodity Total	\$ <u>14,273,786</u>	\$ <u>7,829,411</u>	\$ <u>5,874,650</u>	\$ <u>1,801,950</u>	\$ <u>-</u>

The total commodity values presented here are based upon firm supply obligations with each individual natural gas supplier. The firm obligations value for Conoco, Shell Energy, and BP are based upon firm supply obligations and locked prices with those suppliers. The firm obligations value for the CNX contract is based upon firm supply obligations and the applicable four month NYMEX strip prices on June 30, 2016.

**15. Other Commitments and Contingencies**

In the normal course of business, there are various lawsuits pending against KUB. Management has reviewed these lawsuits with counsel, who is vigorously defending KUB's position and is of the opinion that the ultimate disposition of these matters will not have a material adverse effect on KUB's financial position, results of operations or cash flows.

In February 2005, a Consent Decree was entered into federal court regarding the operation of KUB's wastewater system. Under the terms of the Consent Decree, the remediation of identified sanitary sewer overflows (SSOs) on KUB's wastewater system had to be completed by June 30, 2016. KUB completed all the requirements of the Consent Decree for the collection system two years in advance of the deadline.

# **Knoxville Utilities Board**

## **Notes to Consolidated Financial Statements**

### **June 30, 2016 and 2015**

---

The Consent Decree also required KUB to perform an evaluation of the wet weather performance and capacity of its wastewater treatment plants. In July 2007, KUB submitted a Composite Correction Plan (CCP) for its wastewater treatment plants to EPA for review. The development and filing of the CCP was a requirement of the federal order of February 2005. The CCP includes recommended improvements to KUB's Kuwahee and Fourth Creek treatment plants to address wet weather capacity issues noted in prior assessments. The EPA approved the CCP in January 2009 including a recommended schedule of plant improvements that extends beyond the expiration date of the original Consent Decree. An amendment to the Consent Decree incorporating and establishing this schedule was agreed to by all parties and was entered on June 23, 2009. The purpose of the Amendment is to allow KUB to complete a portion of work outlined in the CCP after the Consent Decree deadline of June 30, 2016. The CCP provides for a biologically enhanced high-rate clarification (the BEHRC) secondary treatment system to be installed at the Fourth Creek treatment plant by June 30, 2018 and at the Kuwahee treatment plant by June 30, 2021. The total cost of such improvements is estimated to be approximately \$120 million.

KUB's funding plan for the Consent Decree includes long-term bonds and a series of rate increases phased in over the term of the order. Bond proceeds fund all types of wastewater capital projects, the majority of which are related to the Consent Decree. As of June 30, 2016, the Wastewater Division had issued \$485 million in bonds to fund system capital improvements since the inception of the Consent Decree. The Board previously approved two 50 percent rate increases, which went into effect in April 2005 and January 2007. The Board also approved an 8 percent rate increase, which was effective in September 2008, two 12 percent rate increases, which were effective in April 2011 and October 2012, and three 6 percent rate increases effective October 2014, October 2015 and October 2016. KUB anticipates additional bond issues and rate increases over the next decade to help fund wastewater capital improvements.

KUB successfully completed the first cycle of Maintenance Operation Management (MOM) requirements one year before the deadline by inspecting 99.5% of manholes and gravity mains, smoke testing 99.9% of gravity mains, performing required inspections of pump stations and the related force mains, and completing all Corrective Action Plan/Engineering Report (CAP/ER) projects. KUB initiated the second MOM cycle that continues to focus on the prevention of SSOs. As part of the Century II initiative, formally known as the PACE10 program, KUB has installed storage tanks providing 34 million gallons of wastewater storage to control wet weather overflows and rehabilitated or replaced approximately 334.9 miles of collection system pipe. KUB also continues to maintain a proactive operations and maintenance plan for the wastewater collection system including inspection, grease control, and private lateral enforcement. The result of the PACE10/Century II initiative has been an 82 percent reduction in SSOs.

As of June 30, 2016, the Wastewater Division had completed its twelfth full year under the Consent Decree, spending \$529.5 million on capital investments to meet Consent Decree requirements. During fiscal year 2016, the Wastewater Division incurred \$37.3 million in total expenditures related to Consent Decree requirements, including \$3.3 million for operating costs and \$34 million in capital improvements which included the rehabilitation or replacement of 28 miles of wastewater main. During the fiscal year, \$26.5 million was spent on sewer mini-basin rehabilitation and replacement. Trunk line rehabilitation and replacement accounted for \$2 million of capital expenditures, while pump station improvements accounted for \$4.6 million.

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

---

**16. Segment Information**

The following financial information represents identifiable activities for which the revenue bonds and other revenue backed debt are outstanding for the respective Divisions:

**Condensed Statement of Net Position**

	2016			
	Electric	Gas	Water	Wastewater
Assets and Deferred Outflows of Resources				
Current assets	\$ 105,152,996	\$ 28,023,783	\$ 20,524,335	\$ 44,214,264
Restricted assets	14,749,362	3,149,495	3,356,910	7,701,096
Net capital assets	511,260,136	263,531,420	281,257,624	687,055,971
Other assets	37,107,982	16,503,157	10,007,552	28,159,669
Total assets	<u>\$ 668,270,476</u>	<u>\$ 311,207,855</u>	<u>\$ 315,146,421</u>	<u>\$ 767,131,000</u>
Deferred outflows of resources	8,543,965	3,004,672	3,273,002	19,413,063
Total assets and deferred outflows of resources	<u>\$ 676,814,441</u>	<u>\$ 314,212,527</u>	<u>\$ 318,419,423</u>	<u>\$ 786,544,063</u>
Liabilities and Deferred Inflows of Resources				
Current liabilities	\$ 87,318,966	\$ 16,464,233	\$ 10,801,558	\$ 19,868,558
Other liabilities	16,598,461	3,410,619	2,295,413	2,761,018
Long-term debt	237,603,282	100,163,853	142,132,182	492,466,224
Total liabilities	<u>\$ 341,520,709</u>	<u>\$ 120,038,705</u>	<u>\$ 155,229,153</u>	<u>\$ 515,095,800</u>
Deferred inflows of resources	725,888	257,085	196,595	332,699
Total liabilities and deferred inflows of resources	<u>\$ 342,246,597</u>	<u>\$ 120,295,790</u>	<u>\$ 155,425,748</u>	<u>\$ 515,428,499</u>
Net position				
Net investment in capital assets	\$ 268,462,479	\$ 159,696,458	\$ 138,069,365	\$ 205,783,783
Restricted	10,120,406	1,820,408	1,522,884	2,737,312
Unrestricted	55,984,959	32,399,871	23,401,426	62,594,469
Total net position	<u>\$ 334,567,844</u>	<u>\$ 193,916,737</u>	<u>\$ 162,993,675</u>	<u>\$ 271,115,564</u>

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

**Condensed Statement of Net Position**

	2015			
	Electric	Gas	Water	Wastewater
Assets and Deferred Outflows of Resources				
Current assets	\$ 113,395,720	\$ 45,488,784	\$ 27,984,680	\$ 42,523,912
Restricted assets	33,517,297	3,119,403	12,903,096	22,712,158
Net capital assets	480,797,659	248,032,207	258,138,759	664,178,585
Other assets	43,446,286	14,911,384	14,195,562	38,863,004
Total assets	<u>\$ 671,156,962</u>	<u>\$ 311,551,778</u>	<u>\$ 313,222,097</u>	<u>\$ 768,277,659</u>
Deferred outflows of resources	5,410,730	1,925,346	2,459,219	18,592,703
Total assets and deferred outflows of resources	<u>\$ 676,567,692</u>	<u>\$ 313,477,124</u>	<u>\$ 315,681,316</u>	<u>\$ 786,870,362</u>
Liabilities and Deferred Inflows of Resources				
Current liabilities	\$ 85,227,269	\$ 16,716,438	\$ 9,361,281	\$ 17,928,132
Other liabilities	16,261,143	3,352,842	1,634,788	2,052,891
Long-term debt	248,330,326	105,919,404	146,856,890	503,955,190
Total liabilities	<u>\$ 349,818,738</u>	<u>\$ 125,988,684</u>	<u>\$ 157,852,959</u>	<u>\$ 523,936,213</u>
Deferred inflows of resources	3,061,589	1,148,096	829,180	1,339,445
Total liabilities and deferred inflows of resources	<u>\$ 352,880,327</u>	<u>\$ 127,136,780</u>	<u>\$ 158,682,139</u>	<u>\$ 525,275,658</u>
Net position				
Net investment in capital assets	\$ 228,768,196	\$ 138,973,111	\$ 110,579,425	\$ 172,143,725
Restricted	9,091,195	1,801,334	1,375,362	2,623,864
Unrestricted	85,827,974	45,565,899	45,044,390	86,827,115
Total net position	<u>\$ 323,687,365</u>	<u>\$ 186,340,344</u>	<u>\$ 156,999,177</u>	<u>\$ 261,594,704</u>

*(Space left intentionally blank)*

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

**Condensed Statement of Revenues, Expenses  
and Changes in Net Position**

	2016			
	Electric	Gas	Water	Wastewater
Operating revenues	\$ 521,369,202	\$ 88,441,144	\$ 47,453,401	\$ 83,645,509
Operating expenses	472,905,855	65,567,807	27,052,009	36,048,577
Provision for depreciation	29,490,370	11,481,432	9,055,221	18,342,674
Total operating expenses	<u>502,396,225</u>	<u>77,049,239</u>	<u>36,107,230</u>	<u>54,391,251</u>
Operating income	18,972,977	11,391,905	11,346,171	29,254,258
Non-operating expense	<u>(8,270,894)</u>	<u>(3,815,512)</u>	<u>(5,652,869)</u>	<u>(20,424,080)</u>
Change in net position before capital contributions	10,702,083	7,576,393	5,693,302	8,830,178
Capital contributions	<u>178,396</u>	<u>-</u>	<u>301,196</u>	<u>690,682</u>
Change in net position	<u>10,880,479</u>	<u>7,576,393</u>	<u>5,994,498</u>	<u>9,520,860</u>
Net position				
Beginning of year	323,687,365	186,340,344	156,999,177	261,594,704
End of year	<u>\$ 334,567,844</u>	<u>\$ 193,916,737</u>	<u>\$ 162,993,675</u>	<u>\$ 271,115,564</u>

**Condensed Statement of Revenues, Expenses  
and Changes in Net Position**

	2015			
	Electric	Gas	Water	Wastewater
Operating revenues	\$ 533,205,845	\$ 114,168,784	\$ 44,173,190	\$ 79,206,028
Operating expenses	489,617,790	86,845,366	26,315,917	35,189,854
Provision for depreciation	25,887,777	10,894,826	7,794,763	17,130,721
Total operating expenses	<u>515,505,567</u>	<u>97,740,192</u>	<u>34,110,680</u>	<u>52,320,575</u>
Operating income	17,700,278	16,428,592	10,062,510	26,885,453
Non-operating expense	<u>(6,642,081)</u>	<u>(4,272,667)</u>	<u>(5,309,339)</u>	<u>(19,486,890)</u>
Change in net position before capital contributions	11,058,197	12,155,925	4,753,171	7,398,563
Capital contributions	<u>11,611</u>	<u>4,353</u>	<u>232,696</u>	<u>357,246</u>
Change in net position	<u>11,069,808</u>	<u>12,160,278</u>	<u>4,985,867</u>	<u>7,755,809</u>
Net position				
Beginning of year, as previously reported	312,984,264	174,317,582	152,112,627	253,999,330
Change in method of accounting for pension	<u>(366,707)</u>	<u>(137,516)</u>	<u>(99,317)</u>	<u>(160,435)</u>
Net position, beginning of year, as restated	<u>312,617,557</u>	<u>174,180,066</u>	<u>152,013,310</u>	<u>253,838,895</u>
End of year	<u>\$ 323,687,365</u>	<u>\$ 186,340,344</u>	<u>\$ 156,999,177</u>	<u>\$ 261,594,704</u>

**Knoxville Utilities Board**  
**Notes to Consolidated Financial Statements**  
**June 30, 2016 and 2015**

---

**Condensed Statement of Cash Flows**

	<b>2016</b>			
	<b>Electric</b>	<b>Gas</b>	<b>Water</b>	<b>Wastewater</b>
Net cash provided by operating activities	\$ 50,904,883	\$ 22,442,923	\$ 20,792,761	\$ 48,518,765
Net cash used in capital and related financing activities	(59,358,278)	(36,629,153)	(32,331,239)	(56,922,694)
Net cash provided by (used in) investing activities	<u>(1,226,670)</u>	<u>(1,040,540)</u>	<u>(373,199)</u>	<u>(723,696)</u>
Net increase (decrease) in cash and cash equivalents	(9,680,065)	(15,226,770)	(11,911,677)	(9,127,625)
Cash and cash equivalents, beginning of year	<u>44,471,851</u>	<u>26,262,919</u>	<u>21,304,494</u>	<u>32,853,270</u>
Cash and cash equivalents, end of year	<u><u>\$ 34,791,786</u></u>	<u><u>\$ 11,036,149</u></u>	<u><u>\$ 9,392,817</u></u>	<u><u>\$ 23,725,645</u></u>

**Condensed Statement of Cash Flows**

	<b>2015</b>			
	<b>Electric</b>	<b>Gas</b>	<b>Water</b>	<b>Wastewater</b>
Net cash provided by operating activities	\$ 38,410,104	\$ 28,984,668	\$ 17,603,576	\$ 42,595,872
Net cash used in capital and related financing activities	(22,524,068)	(46,023,953)	(17,392,294)	(22,961,641)
Net cash provided by (used in) investing activities	<u>(2,886,436)</u>	<u>(712,007)</u>	<u>5,914,751</u>	<u>(2,194,880)</u>
Net increase (decrease) in cash and cash equivalents	12,999,600	(17,751,292)	6,126,033	17,439,351
Cash and cash equivalents, beginning of year	<u>31,472,251</u>	<u>44,014,211</u>	<u>15,178,461</u>	<u>15,413,919</u>
Cash and cash equivalents, end of year	<u><u>\$ 44,471,851</u></u>	<u><u>\$ 26,262,919</u></u>	<u><u>\$ 21,304,494</u></u>	<u><u>\$ 32,853,270</u></u>

*(Space left intentionally blank)*

**Knoxville Utilities Board**  
**Required Supplementary Information - Schedule of Funding Progress**  
**June 30, 2016**  
**(Unaudited)**

---

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

<b>Valuation Date</b>	<b>Actuarial Value of Assets (a)</b>	<b>Actuarial Accrued Liability (AAL) (b)</b>	<b>Unfunded Actuarial Accrued Liability (UAAL) (b-a)</b>	<b>Funded Ratio (a)/(b)</b>	<b>Covered Payroll (c)</b>	<b>UAAL as a Percentage of Covered Payroll [(b)-(a)]/(c)</b>
January 1, 2008	\$ -	\$ 108,329,141	\$ 108,329,141	0%	\$ 31,234,509	346.8%
January 1, 2009	14,593,487	100,726,738	86,133,251	14%	31,846,091	270.5%
January 1, 2010	21,275,643	58,475,364	37,199,721	36%	30,069,028	123.7%
January 1, 2011	40,749,815	64,289,254	23,539,439	63%	28,878,791	81.5%
January 1, 2012	37,907,357	61,603,466	23,696,109	62%	28,269,123	83.8%
January 1, 2013	38,571,803	63,341,531	24,769,728	61%	27,566,340	89.9%
January 1, 2014	43,409,955	46,889,808	3,479,853	93%	26,724,154	13.0%
* January 1, 2015	47,705,478	47,745,640	40,162	100%	25,816,884	0.2%
* January 1, 2016	48,510,796	45,118,624	(3,392,172)	108%	25,243,127	(13.4%)

\* The actuarial valuations dated January 1, 2015 and 2016, which determine the annual required contribution for future fiscal years ending June 30, 2017 and 2018, have not been audited.

See accompanying Report of Independent Auditors on Supplemental Information.

**Knoxville Utilities Board**  
**Required Supplementary Information - Schedule of Changes in Net Pension**  
**Liability and Related Ratios**  
**June 30, 2016**  
**(Unaudited)**

	<b>Year ended December 31</b>	
	<b>2015</b>	<b>2014</b>
<b>Total pension liability</b>		
Service cost	\$ 4,157,062	\$ 4,092,808
Interest	14,812,784	14,698,657
Differences between expected and actual experience	(1,890,334)	-
Benefit payments, including refunds of member contributions	(15,350,926)	(15,533,167)
<b>Net change in total pension liability</b>	<b>1,728,586</b>	<b>3,258,298</b>
<b>Total pension liability - beginning</b>	<b>202,773,764</b>	<b>199,515,466</b>
<b>Total pension liability - ending (a)</b>	<b>\$ 204,502,350</b>	<b>\$ 202,773,764</b>
<b>Plan fiduciary net position</b>		
Contributions - employer	\$ 5,991,887	\$ 5,908,541
Contributions - participants	487,546	475,854
Net investment income	(95,430)	22,292,369
Other additions	30,879	29,733
Benefit payments, including refunds of member contributions	(15,274,926)	(15,405,167)
Administrative expense	(397,160)	(378,085)
Death benefits	(76,000)	(128,000)
<b>Net change in plan fiduciary net position**</b>	<b>(9,333,204)</b>	<b>12,795,245</b>
<b>Plan fiduciary net position - beginning**</b>	<b>208,795,394</b>	<b>196,000,149</b>
<b>Plan fiduciary net position - ending (b)**</b>	<b>\$ 199,462,190</b>	<b>\$ 208,795,394</b>
<b>Plan's net pension liability - ending (a) - (b)</b>	<b>\$ 5,040,160</b>	<b>\$ (6,021,630)</b>
Plan fiduciary net position as a percentage of the total pension liability	97.54%	102.97%
Covered-employee payroll	\$ 50,679,585	\$ 50,246,074
Plan's net pension liability as a percentage of covered-employee payroll	9.95%	(11.98%)

**Notes to Schedule:**

\* Information not reflected prior to 2014 due to changes in actuary methodologies required under GASB 67, which was implemented in 2014.

\*\* Excludes amounts related to 401(k) matching contributions.

See accompanying Report of Independent Auditors on Supplemental Information.

**Knoxville Utilities Board**  
**Required Supplementary Information - Schedule of Employer Pension**  
**Contributions**  
**June 30, 2016**  
**(Unaudited)**

---

	<b>Year ended December 31</b>	
	<b>2015</b>	<b>2014</b>
Annual required contribution	\$ 5,991,887	\$ 5,908,541
Contribution in relation to the annual required contribution	5,991,887	5,908,541
Contribution deficiency	<u>\$ -</u>	<u>\$ -</u>
Covered-employee payroll	\$ 50,679,585	\$ 50,246,074
Contributions as a percentage of covered-employee payroll	11.82%	11.76%

**Notes to Schedule:**

---

Valuation Dates:	January 1, 2013 and January 1, 2014
Timing:	Actuarially determined contributions for a plan year are based upon 50% of the amounts determined at the actuarial valuations for each of the two prior plan years.

**Key methods and assumptions used to determine contribution rates:**

---

Actuarial cost method:	Individual entry age
Asset valuation method:	5-year smoothed market
Amortization method:	Level dollar closed period with 28 years remaining as of January 1, 2013 and 27 years remaining as of January 1, 2014.
Discount rate:	8% at January 1, 2013 and 7.5% at January 1, 2014
Salary increases:	From 2.58% to 7.92% for January 1, 2013 and from 2.8% to 5.15% for January 1, 2014, based on years of service
Mortality:	Sex distinct RP-2000 Combined Mortality projected to 2018 using Scale AA for the January 1, 2013 valuation. Sex distinct RP-2000 Combined Mortality projected to 2024 using Scale AA for the January 1, 2014 valuation.
Inflation:	2.8 percent

\* Schedule of Employer Contribution information is not reflected prior to 2014 due to changes in actuary methodologies required under GASB 67, which was implemented 2014.

**Knoxville Utilities Board**  
**Supplemental Information –**  
**Schedule of Expenditures of Federal Awards and State Financial Assistance**  
**June 30, 2016** **Schedule 1**

---

KUB was awarded a grant from Tennessee Emergency Management Agency (as a flow through from FEMA) for reimbursement for costs related to storms in 2015. The schedule below shows the expenditures for the current fiscal year.

<u>Program Name</u>	<u>Federal/State Agency</u>	<u>CFDA Number</u>	<u>Contract Number</u>	<u>Expenditures</u>
U.S. Department of Homeland Security	Tennessee Emergency Management	97.036	34101-06616	<u>\$ 1,325,524</u>
		Total Program 97.036		<u>\$ 1,325,524</u>
		<b>Total Federal Awards</b>		<u><b>\$ 1,325,524</b></u>

**NOTE 1 - BASIS OF PRESENTATION**

The Schedule of Expenditures of Federal Awards and State Financial Assistance includes the federal award related grant activity of Knoxville Utilities Board and is presented on the accrual basis of accounting. The information in this schedule 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. Therefore, some amounts presented in this schedule may differ from amounts presented in, or used in the preparation of, the basic financial statements.

See accompanying Report of Independent Auditors on Supplemental Information.

**Knoxville Utilities Board**  
**Supplemental Information – Schedule of Findings and Questioned Costs**  
**June 30, 2016** **Schedule 2**

---

**Section I -- Summary of Auditors' Results**

**Financial Statements**

Type of auditors' report issued:	Unmodified
Internal control over financial reporting: Material weakness(es) identified?	None reported
Significant deficiency(s) identified not considered to be material weaknesses?	None reported
Noncompliance material to financial statements:	None reported

**Federal Awards**

Internal control over major programs: Material weakness(es) identified? Significant deficiency(s) identified not considered to be material weaknesses?	None reported	
Type of auditors' report issued on compliance for major programs:	Unmodified	
Any audit findings disclosed that are required to be reported in accordance with Title 2 U.S. Code of Federal Regulations Part 200?	None reported	
Identification of major programs:	<u>CFDA</u> 97.036	<u>Name of Program</u> Tennessee Emergency Management
Dollar threshold used to distinguish between Type A and Type B programs:	\$750,000	
Auditee qualified as low-risk auditee?	No	

**Section II -- Financial Statement Findings**

None reported.

**Section III -- Federal Award Findings and Questioned Costs**

None reported.

**Section IV – Summary Schedule of Prior Year Audit Findings**

Not applicable as there were no prior year findings reported.

**Section V – Corrective Action Plan**

Not applicable as there were no current year findings reported.

See accompanying Report of Independent Auditors on Supplemental Information.

**Knoxville Utilities Board**  
**Supplemental Information - Schedule of Insurance in Force**  
**June 30, 2016**  
**(Unaudited)**

**Schedule 3**

---

**Crime**

Covers losses resulting from employee dishonesty, robbery, burglary, and computer fraud. Limits of coverage - \$5,000,000; \$250,000 retention.

**Directors' and Officers' Liability Insurance**

Covers KUB personnel appropriately authorized to make decisions on behalf of KUB (including but not limited to Commissioners, President and CEO, Senior Vice Presidents, Vice Presidents, and Directors) for wrongful acts. Limits of coverage - \$20,000,000; \$1,000,000 corporate deductible, \$0 individual deductible.

**Employment Practices Liability**

Coverage for costs related to actual or alleged employment practices violations for amounts exceeding specified amount (\$500,000). Limits of coverage - \$10,000,000.

**Fiduciary**

Covers losses resulting from wrongful acts related to KUB's Pension, 401(k), and OPEB Trust funds. Limits of coverage - \$10,000,000; \$150,000 deductible.

**Pollution Legal Liability**

New conditions coverage for losses exceeding specified amount per occurrence (\$1,000,000). Limits of coverage - \$20,000,000.

**Property Insurance**

This coverage provides protection of KUB's property for fire, extended coverage, vandalism and malicious mischief, and coverage on boilers and machinery. Also included are flood and earthquake damage and mechanical failure. Limits of coverage - \$250,000,000 per occurrence (subject to certain sublimits); \$2,500,000 deductible per occurrence.

**Travel Accident**

Covers losses related to employees' business travel. Limits of coverage - \$1,500,000 aggregate.

**Excess Insurance for General Liability**

As a government entity, KUB's liability is limited under the Tennessee Governmental Tort Liability Act (TCA §29-20-403). KUB is self-insured for up to the first \$700,000 of any accident and has insurance of \$1,000,000 above this retention.

**Excess Insurance for Workers' Compensation**

Covers all losses exceeding specified amount per occurrence (\$1,000,000). Limits of coverage - Statutory; stop loss coverage applies for aggregate losses over \$5,000,000.

**Employee Health Plan Stop Loss Coverage**

KUB's employee health plan is self-funded. KUB has purchased stop loss insurance, which covers KUB's exposure to annual expenses in excess of \$400,000 per individual participant.

See accompanying Report of Independent Auditors on Supplemental Information.



## Report of Independent Auditors 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*

Board of Commissioners  
Knoxville Utilities Board  
Knoxville, Tennessee

We have audited, in accordance with the 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, the financial statements of the Knoxville Utilities Board (KUB), a component unit of the City of Knoxville, Tennessee, as of and for the year ended June 30, 2016, and the related notes to the financial statements, which collectively comprise KUB's basic financial statements, and have issued our report thereon dated October 27, 2016.

### **Internal Control over Financial Reporting**

In planning and performing our audit of the financial statements, we considered KUB's internal control over financial reporting (internal control) to determine the 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 KUB's internal control. Accordingly, we do not express an opinion on the effectiveness of KUB'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 combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of KUB'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.

Board of Commissioners  
Knoxville Utilities Board  
Knoxville, Tennessee

### **Compliance and Other Matters**

As part of obtaining reasonable assurance about whether KUB'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 determination of financial statement amounts. 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 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 KUB's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering KUB's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

*Coulter & Justus, P.C.*

Knoxville, Tennessee  
October 27, 2016



## Report of Independent Auditors on Compliance for Each Major Program and on Internal Control over Compliance Required by the Uniform Guidance

Board of Commissioners  
Knoxville Utilities Board  
Knoxville, Tennessee

### Report on Compliance for the Major Federal Program

We have audited the Knoxville Utilities Board's (KUB), a component unit of the City of Knoxville, Tennessee, compliance with the types of compliance requirements described in the OMB Compliance Supplement that could have a direct and material effect on KUB's major federal program for the year ended June 30, 2016. KUB's major federal program is identified in the summary of auditor's results section of the accompanying schedule of findings and questioned costs.

### Management's Responsibility

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

### Auditor's Responsibility

Our responsibility is to express an opinion on compliance for KUB's major federal program 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 the audit requirements of Title 2 U.S. Code of Federal Regulations Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Those standards and the Uniform Guidance require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about KUB'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 the major federal program. However, our audit does not provide a legal determination of KUB's compliance.

Board of Commissioners  
Knoxville Utilities Board  
Knoxville, Tennessee

### **Opinion on the Major Federal Program**

In our opinion, KUB complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2016.

### **Report on Internal Control over Compliance**

Management of KUB 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 KUB's internal control over compliance with the types of requirements that could have a direct and material effect on the major federal program to determine the auditing procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance for the major program and to test and report on internal control over compliance in accordance with the 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 KUB'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, noncompliance with a type of compliance requirement of a federal program on a timely basis. *A material weakness in internal control over compliance* is a deficiency, or combination of deficiencies, in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal 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 a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal 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 material weaknesses or significant deficiencies. 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 the Uniform Guidance. Accordingly, this report is not suitable for any other purpose.

*Coulter & Justus, P.C.*

Knoxville, Tennessee  
October 27, 2016