



Knoxville Utilities Board

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**Board Meeting Agenda  
Thursday, May 20, 2021  
Noon**

**Call to Order**

**Roll Call**

**Approval of Minutes**

**Official Action**

Resolution 1434 – A Resolution Replacing the Existing Rate Schedules of the Water Division, and Amending Certain Rate Schedules of the Wastewater Division as Previously Established by Resolution 1060 as Heretofore Amended – 1<sup>st</sup> Reading

Resolution 1435 – A Resolution Requesting City Council Approval of Bond Issue for the Wastewater Division

Resolution 1436 – A Resolution Requesting Approval for Fiscal Year 2022 Budget Appropriations

Resolution 1437 – A Resolution Requesting Approval for Fiscal Year 2022 Commitment Appropriations

Resolution 1438 – A Resolution Acknowledging the Board's Consideration of Comments of the Comptroller of the Treasury for the State of Tennessee on the Knoxville Utilities Board's Fiber to the Home Business Plan and Calling a Public Hearing on KUB's Intent to Provide Broadband Services Pursuant to State Law

**President's Report**

**Other Business**

**Public Comments**

**Adjournment**



Knoxville Utilities Board

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May 14, 2021

Knoxville Utilities Board  
445 S. Gay Street  
Knoxville, Tennessee 37902-1109

Commissioners:

As discussed at the budget workshop in April, the May 20 Board meeting agenda includes official action items for proposed budget and commitment appropriations for fiscal year 2022, authorization to issue up to \$12 million in new wastewater bonds, and several rate action recommendations, including a proposed 2% water rate increase for fiscal year 2022. An additional action item is a resolution calling a public hearing on KUB's intent to provide broadband services.

An overview of each official action item is provided below:

**Resolution 1434**

Resolution 1434 replaces the existing rate schedules of the Water Division to provide for a 2% increase in water rates and include language allowing for future billings to water system customers to be in gallons, as applicable. The resolution also amends the rate schedules of the Wastewater Division to include language that would permit future billings to wastewater system customers to be in gallons, as applicable.

Resolution 1434 requires two readings. If approved on first reading at the May 20 meeting, we anticipate second reading would occur at the June 17 meeting.

If approved on two readings, the proposed 2% water rate increase would go into effect on July 1, 2021 and be reflected on customers' bills beginning in August 2021.

**Resolution 1435**

Resolution 1435 requests City Council approval for the issuance of up to \$12 million in revenue bonds for the Wastewater Division.

The proceeds of the bonds will be used to help fund wastewater system capital improvement programs in fiscal year 2022 and cover issuance costs and underwriter fees. A summary of the major provisions of the proposed City Council bond resolution is enclosed for your information.

**Resolution 1436**

Resolution 1436 adopts budget appropriations for fiscal year 2022 totaling \$933.7 million, including \$595.9 million for the Electric Division, \$131.4 million for the Gas Division, \$78.7 million for the Water Division, and \$127.7 million for the Wastewater Division.

The proposed budget request provides \$463.6 million for wholesale energy purchases, \$167.1 million for operating and maintenance expenditures, \$177.7 million for system capital investments, \$83.7 million for debt service payments, and \$41.6 million for taxes and tax equivalent payments. Senior Vice President and Chief Financial Officer Mark Walker has prepared a letter certifying the availability of funds for the proposed budget.

A white paper on the proposed budget for fiscal year 2022 is also enclosed for your information.

**Resolution 1437**

Resolution 1437 adopts commitment appropriations for fiscal year 2022. The resolution authorizes KUB to execute contracts and incur obligations on or before June 30, 2022, that commit KUB to expenditures after June 30, 2022. The commitments total \$101.1 million, including \$23.4 million for the Electric Division, \$12.3 million for the Gas Division, \$43 million for the Water Division, and \$22.4 million for the Wastewater Division. Mr. Walker has also prepared a letter certifying the availability of funds for the commitment appropriations.

**Resolution 1438**

Resolution 1438 acknowledges the Board's consideration of comments from the Office of the Comptroller of the Treasury for the State of Tennessee on KUB's Fiber to the Home Business Plan and calls for a public hearing on KUB's intent to provide broadband services.

You will recall the Board previously authorized KUB to submit a Fiber to the Home Business Plan to the Comptroller for review. On May 11, KUB received a favorable response from the Comptroller, indicating KUB's Business Plan is feasible and may proceed. A copy of the correspondence received from the Comptroller is enclosed for your review. Pursuant to our power supply contract with TVA, KUB was also required to submit a business plan to TVA for approval. TVA's formal approval of the business plan was received earlier this week.

In accordance with state law, the next step is for the Board to hold a public hearing on KUB's intent to provide broadband services. Resolution 1438 calls for the public hearing to be held on May 26, 2021 at 6:00 p.m. at the Knoxville Expo Center Grande Event Center located at 5441 Clinton Highway. The full public notice of the meeting is attached as an exhibit to Resolution 1438.

As you know, this is not the final step in the approval process. After the public hearing, the Board is required to adopt a resolution authorizing KUB to provide broadband services and requesting City Council approval.

Drafts of Resolutions 1434, 1435, 1436, 1437 and 1438 are enclosed for your review. I recommend the adoption of Resolutions 1435, 1436, 1437, and 1438 on first and final reading, and Resolution 1434 on first reading.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Gabriel Bolas". The signature is fluid and cursive, with the first name "Gabriel" and the last name "Bolas" clearly distinguishable.

Gabriel J. Bolas II  
President and CEO

Enclosures

## **Knoxville Utilities Board Fiscal Year 2022 Budget Request**

KUB's proposed budget of \$933.7 million for fiscal year 2022 supports ongoing efforts to fulfill our vision of providing utility services that are safe, reliable, and affordable for both current and future customers.

The proposed budget is down \$28.4 million compared to the current fiscal year budget. Operating and maintenance (O&M) costs are up \$9 million, reflecting increased investments in vegetation management and labor-related expenses. Energy costs are down \$4.2 million due to the TVA Partnership Agreement Credit. Debt service is down \$2.2 million, reflecting savings from the recent bond refinancing in April 2021. Taxes and tax equivalents are up \$2.5 million due to continued capital investment in the Century II program. Capital is down \$33.5 million compared to the fiscal year 2021 budget due to capital deferrals in an effort to reduce rate increases, in addition to a relatively large amount of expenditures for the Biologically Enhanced High-Rate Clarification project at the Kuwahee Wastewater Treatment Plant in the current fiscal year.

The proposed budget includes \$463.6 million for wholesale energy purchases, \$177.7 million for capital investment in KUB's four utility systems, \$167.1 million for O&M costs, \$83.7 million for principal and interest payments on outstanding bonds, and \$41.6 million for tax equivalent payments and payroll tax expense.

Investments in utility system infrastructure through the Century II program will continue to support the delivery of reliable and high-quality services to KUB's customers. Investment in new utility infrastructure will also support growth and economic development in the area.

The fiscal year 2022 budget of \$933.7 million will be funded by a combination of system revenues, bond issues, and general fund cash on hand. Revenues will fund \$864.3 million or 93% of the \$933.7 million proposed budget covering wholesale energy purchases, O&M expense, debt service, taxes & equivalents, and \$108.3 million, or 61 percent of capital investment. The remaining \$69.4 million of capital will be funded from \$28 million in bond proceeds and \$41.4 million of general fund cash.

The \$28 million in new bonds includes \$16 million in electric bonds and \$12 million in wastewater bonds. Each series of bonds will mature over a period of 30 years. The proposed budget reflects an estimated 3.5 percent average interest rate on each series of bonds. Action on the electric bonds will be deferred pending a decision on KUB entering the broadband services market.

A water rate increase of 2% is being proposed for the fiscal year 2022 budget, which has been reduced from the previously planned level of 5%.

The proposed \$934 million does not include costs associated with constructing the fiber network that would enable KUB to provide broadband services or any costs associated with providing broadband services. If KUB is approved to enter the broadband services market later this year, the fiscal year 2022 budget will be amended to cover those projected costs.

### **Energy Costs**

The largest component of the proposed fiscal year 2022 budget is the cost of wholesale energy purchases, consisting of electric power purchases from TVA and natural gas contracts with pipelines and purchases from multiple natural gas suppliers. At \$463.6 million, wholesale energy represents 49.7 percent of KUB's fiscal year 2022 budget.

The proposed budget for purchased power is \$406.1 million, providing for the purchase of 5.7 billion kilowatt hours (kWh) from TVA for resale to KUB's 211,800 electric system customers. The proposed budget for purchased gas cost is \$57.5 million, representing the purchase of approximately 11.6 million dekatherms from suppliers for resale to KUB's 105,400 natural gas system customers during fiscal year 2022.

The proposed budget for wholesale energy costs is down \$4.2 million from the current year budget due to the TVA Partnership Agreement Credit.

### **Operating and Maintenance (O&M) Costs**

KUB's proposed budget for O&M expenditures for fiscal year 2022 is \$167.1 million, representing 17.9 percent of the total budget request.

The \$167.1 million O&M budget includes the following:

- \$82.4 million for labor-related expenditures, including \$61.6 million for the O&M portion of payroll for 1,053 full-time employees, \$11 million for employee medical costs, \$8.9 million for post-employment benefits, and \$0.9 million for training. The \$8.9 million in post-employment benefits includes \$3.7 million in required contributions to the Pension Trust Fund, \$3.3 million for employer 401(k) matching contributions, and \$1.9 million in contributions to the OPEB Trust.
- \$37.5 million for materials and other costs, including \$8.8 million for utility expense, \$4.7 million for materials, \$2.9 million for software licenses, \$2.7 million for chemicals for treating water and wastewater, and \$2.6 million for supplies and tools.
- \$47.2 million for various programs carried out by contractors on behalf of KUB, including \$11.9 million for vegetation management, \$4.2 million for consultants, and \$3.2 million for sustainability initiatives including \$2 million for weatherization and water efficiency programs for low income customers.

The \$167.1 million O&M budget represents an increase of \$9 million or 5.7 percent over the current year budget.

## **Capital**

KUB's proposed capital budget for fiscal year 2022 is \$177.7 million, representing 19 percent of the total budget request. Century II projects encompass \$97.9 million for infrastructure programs and \$27.6 million for treatment plant improvements, including the water resiliency projects at the Mark B. Whitaker Water Treatment Plant (MBW). The proposed budget also includes \$28.7 million, or 16.2 percent of total capital, for new service projects that will support growth.

The \$177.7 million budget includes the following major projects:

- \$11.9 million for water plant improvements including the new filter project at MBW.
- \$10.7 million for electric 69kV transmission line improvements.
- \$9.9 million for water main replacements and system upgrades.
- \$8.9 million for replacement of the Jones Street wastewater pump station.
- \$7.1 million for steel natural gas main replacements.
- \$6.7 million for electric substation upgrades.
- \$6.2 million for utility relocations due to highway improvement projects.
- \$1.5 million for the community solar project.

The proposed \$177.7 million capital budget represents a decrease of \$33.5 million compared to the current fiscal year capital budget.

## **Debt Service**

The proposed budget for KUB's debt service payments for fiscal year 2022 is \$83.7 million, representing 9 percent of the total budget request.

The debt service budget includes \$43.5 million in principal payments and \$40.2 million in interest payments for currently outstanding bonds and planned bond issues for fiscal year 2022.

As of June 30, 2022, KUB will have \$1 billion in outstanding bonds for all four systems combined, including \$474 million in wastewater bonds, \$277 million in electric bonds, \$192 million in water bonds, and \$85 million in natural gas bonds. As previously noted, \$28 million in new bonds are anticipated to be sold in fiscal year 2022. KUB will have a net decrease of \$15.5 million in outstanding debt in fiscal year 2022 (\$28 million new bonds less \$43.5 million in bond retirements).

At \$83.7 million, proposed debt service expenditures for fiscal year 2022 represent a decrease of \$2.2 million over the current fiscal year budget. The decrease is due to savings from refunding existing debt in April 2021.

## **Taxes and Tax Equivalents**

The fiscal year 2022 budget also includes \$41.6 million for in lieu of tax payments and labor-related taxes remitted to the federal government, representing 4.5 percent of the proposed total budget.

KUB is required under state law and the City Charter to make in lieu of tax payments (tax equivalents) to the taxing jurisdictions in which its utility systems are located. Tax equivalents account for \$35.3 million of the proposed budget, including \$22.8 million in payments to the City of Knoxville, \$11.4 million in payments to Knox County, and \$1.1 million in payments to other taxing jurisdictions in which KUB's utility systems are located.

In the proposed budget, tax equivalent payments are \$2 million higher than the current fiscal year budget, reflecting continued investments in capital infrastructure through the Century II program. Federal payroll taxes are up \$0.5 million.

### **Utility Division Budgets**

The information provided above presents the proposed fiscal year 2022 budget on a consolidated basis. The Board will be requested to adopt budget appropriations for each respective division, including \$595.9 million for the Electric Division, \$131.4 million for the Gas Division, \$78.7 million for the Water Division and \$127.7 million for the Wastewater Division.

The following provides an overview of each division's proposed budget.

### **Electric Division**

The proposed fiscal year 2022 budget for the Electric Division is \$595.9 million. The budget includes \$406.1 million for wholesale power purchases. Also included is \$70.3 million for O&M, \$73.2 million for capital, \$24.8 million for debt service payments, and \$21.5 million for taxes and tax equivalents.

The Electric Division's \$70.3 million O&M budget includes \$36.9 million for labor-related expenses, \$22.5 million for programs carried out by contractors, and \$10.9 million for materials and other costs. Major electric system maintenance programs include vegetation management, pole inspection, substation maintenance, and transformer inspection.

KUB's largest source of customer power outages (63%) are the result of vegetation falling on power lines. Hazard trees will be prioritized for removal, with a focus on those outside the trim zone that can fall on power lines. The proposed O&M budget for vegetation management contractors for fiscal year 2022 is \$11.9 million to help address this issue.

The \$73.2 million capital program provides \$46.7 million for electric system Century II projects, including \$10.7 million for electric transmission line improvements, \$7.1 million for distribution system improvements, \$6.7 million for substation improvements, \$6.7 million for the replacement of 1,400 poles, \$5.2 million for SCADA upgrades, \$4.4 million for new distribution transformers, \$2.9 million for underground cable replacement, \$1 million for distribution automation, \$0.6 million for private lighting, and \$1.4 million for the relocation of electric system utilities to accommodate highway improvement projects. \$14.8 million is in the capital budget for new services and



extensions, reflecting the projected net addition of 1,700 electric customers during the fiscal year. Other capital costs include \$6.1 million in facilities and equipment and \$5.6 million for information technology projects.

The Electric Division proposed budget will be funded by \$576.4 million in electric system revenue, \$16 million in bond proceeds, and \$3.5 million from general fund cash. No electric rate increase is needed to fund this proposed budget.

The amount of outstanding electric bonds will be \$276.6 million by the end of fiscal year 2022, resulting in a debt ratio of 37.5 percent for the Electric Division. Maximum debt service coverage is projected to be 3.57 for the fiscal year, compared to a target level of 3.00 (higher is better).

### **Gas Division**

The Gas Division's proposed fiscal year 2022 budget is \$131.4 million. The proposed budget includes \$57.5 million for wholesale natural gas purchases, \$24.1 million for O&M, \$30.1 million for capital, \$10.9 million for debt service payments, and \$8.8 million for taxes and tax equivalents.

The Gas Division's \$24.1 million O&M budget includes \$13.4 million for labor-related expenses, \$5.2 million for programs carried out by contractors, and \$5.5 million for materials and other costs. Natural gas system maintenance programs include leak detection, corrosion control, pipe inspection, and other distribution integrity management programs (DIMP).

The \$30.1 million capital program provides \$14.9 million for Century II gas pipe projects, including \$7.1 million for steel main replacements, \$4.5 million for distribution polyethylene pipe projects, and \$3.3 million for the relocation/replacement of natural gas system utilities to accommodate highway improvement projects. \$9.9 million is in the capital budget for new services and extensions, providing investments for the expected net addition of 1,200 gas customers, and several strategic main extensions for future growth opportunities. Other capital costs include \$1.9 million for the division's share of information technology projects and \$3.4 million in facilities and equipment.

The Gas Division's proposed budget will be funded by \$122.1 million in system revenue and \$9.3 million in general fund cash. There is no proposed natural gas rate increase or debt issue.

The amount of outstanding gas bonds will be \$84.8 million by the end of fiscal year 2022. The Gas Division debt ratio is projected to end the budget year at 23.4 percent. Maximum debt service coverage is projected to be 3.68, compared to a target level of 3.00 (higher is better).

## **Water Division**

The proposed fiscal year 2021 budget for the Water Division is \$78.7 million. This budget includes \$32.6 million for O&M, \$26.9 million for capital expenditures, \$14.1 million for debt service, and \$5.1 million for taxes and tax equivalents.

The Water Division's \$32.6 million O&M budget includes \$14.5 million for labor-related expenses, \$8.5 million for programs carried out by contractors, and \$9.6 million for materials and other costs. Major water system maintenance programs include hydrant and valve maintenance.

The proposed \$26.9 million capital budget provides \$21.8 million for water system Century II projects, including \$6.6 million for 9 miles of water main replacement, \$2 million for booster pump station and tank improvements, and \$1.3 million to relocate/replace water system utilities to accommodate highway improvement projects. As part of the water plant resiliency project, \$10.9 million is included for the filter project at MBW. \$1 million in additional water treatment plant and booster pump station projects are also included. The proposed capital budget also provides \$2.1 million for new services and extensions, reflecting the addition of 375 new water customers in fiscal year 2022, \$1.5 million for the division's allocated share of information technology projects, and \$1.5 million for facilities and equipment.

The Water Division proposed budget will be funded by \$65.3 million in water system revenue and \$13.4 million from general fund cash. There will be no new water debt issued in fiscal year 2022. A 2% water rate increase has been proposed.

The amount of outstanding water system debt will be \$191.7 million at fiscal year-end, resulting in a debt ratio of 46.1 percent for the Water Division. Maximum debt service coverage is projected to be 2.19 for the upcoming fiscal year, compared to a target level of 2.00 (higher is better).

## **Wastewater Division**

The Wastewater Division's proposed budget for fiscal year 2022 is \$127.7 million. The budget includes \$40.1 million for O&M, \$47.5 million for capital, \$33.9 million for debt service, and \$6.2 million for taxes and tax equivalents.

The Wastewater Division's \$40.1 million O&M budget includes \$17.6 million for labor-related expenses, \$10.9 million for maintenance programs carried out by contractors, and \$11.6 million for materials and other costs. Major wastewater system maintenance programs include blockage abatement, manhole inspection, flow monitoring, and pipe inspection.

The proposed \$47.5 million capital budget includes \$42 million in Century II projects for the wastewater collection system and wastewater treatment plants. \$15.7 million will be spent on various projects at the treatment plants, including construction of a new disinfection system at the Fourth Creek treatment plant, electrical improvements at the Loves Creek treatment plant, and Primary Clarifier improvements at the Kuwahee

treatment plant. Other Century II projects include \$26 million for the rehabilitation and replacement of 11 miles of collection system main, as well as pump station rehab and replacement, including the new Jones Street pump station, and \$0.3 million to relocate/replace water system utilities to accommodate highway improvement projects.

Investments in system extensions and additions account for \$2 million of the Wastewater Division's planned capital expenditures, providing for the addition of 400 wastewater customers in fiscal year 2022. The remainder of the proposed capital budget includes \$2.5 million for the division's share of information technology projects and \$1 million for general facilities and equipment.

The Wastewater Division budget will be funded by \$100.5 million in wastewater system revenue, \$12 million from bond proceeds, and \$15.2 million of general fund cash. There is no proposed rate increase.

Including the proposed \$12 million in new bonds, outstanding wastewater system debt will total \$474.2 million at the end of the budget year. The Wastewater Division debt ratio is projected to be 55.7 percent at the end of fiscal year 2022. The level of maximum debt service coverage is projected to be 1.75 for the budget year compared to a target level of 1.50 (higher is better).

## RESOLUTION NO. 1434

**A Resolution Replacing the Existing Rate Schedules of the Water Division, and Amending Certain Rate Schedules of the Wastewater Division as Previously Established by Resolution 1060 as Heretofore Amended**

**This Resolution Replaces the Existing Rate Schedules of the Water Division, Providing for a Rate Increase for the Water Division Effective July 1, 2021**

**This Resolution Amends the Existing Rate Schedules, Wastewater General Service - Residential, Wastewater General Service - Nonresidential, and Schedule E – Wholesale Wastewater Treatment, of the Wastewater Division Effective July 1, 2021**

**Whereas**, by the provisions of the Charter of the City of Knoxville, Tennessee (the "City"), the management and operation of both the City's water distribution and treatment system and the City's wastewater collection and treatment system have been placed under the jurisdiction of the Board of Commissioners (the "Board") of the Knoxville Utilities Board ("KUB"); and

**Whereas**, the Board previously adopted Resolution 1060, as heretofore amended, providing rate schedules for the Water and Wastewater Divisions of KUB; and

**Whereas**, the Board previously recognized the need for a strategic long-term solution to the issue of aging infrastructure, and has directed and reaffirmed KUB's comprehensive maintenance and replacement programs, referred to as Century II, for all divisions, including the Water Division; and

**Whereas**, the Board previously endorsed long-term funding plans for all divisions, including the Water Division, providing financial support for Century II in support of safe, reliable, and affordable utility services for current and future generations of KUB customers; and

**Whereas**, a previously planned rate increase for the Water Division was deferred due to the global pandemic; and

**Whereas**, at the Board's financial workshop on April 15, 2021, staff reviewed the ten-year funding plan for the Water Division which included a 2% rate increase for fiscal year 2022; and

**Whereas**, the Board has determined, based on the projected level of expenditures for the Water Division that the proposed rate increase is necessary to provide additional revenue to support the needed level of investment in infrastructure maintenance and replacement for the water system; and

**Whereas**, to provide billing flexibility, KUB staff has recommended adding language to the rate schedules of the Water and Wastewater Divisions regarding the conversion factor required to convert one hundred cubic feet (“Ccf”) to gallons; and

**Whereas**, in accordance with Section 1107(F) of the Charter of the City, the Board is required to set rates for water service sufficient to pay all obligations of the Water Division; and

**Whereas**, in accordance with Section 1107(H) of the Charter of the City, the Board is required to set rates for wastewater service sufficient to pay all obligations of the Wastewater Division; and

**Whereas**, in accordance with Section 1107(L) of the Charter, KUB has provided the required public notice of not less than five (5) days prior to a meeting of the Board when a rate change is to be considered.

**Now, Therefore, Be It Hereby Resolved by The Board of Commissioners of The Knoxville Utilities Board:**

**Section 1.** That all existing rate schedules of the Water Division as set forth in Section 3 of Resolution No. 1060, as heretofore amended, are hereby deleted in their entirety and replaced with the rate schedules of the Water Division as set forth in Exhibit A to the Resolution, to be effective July 1, 2021.

**Section 2.** That the Wastewater Division Rate Schedules entitled WASTEWATER GENERAL SERVICE – RESIDENTIAL RATE SCHEDULE, and WASTEWATER GENERAL SERVICE – NONRESIDENTIAL RATE SCHEDULE as set forth in Section 4 of Resolution No. 1060, as heretofore amended, are hereby amended by inserting into the “Rate” section the following language: “KUB may, at its sole discretion, bill wastewater using the same rates converted to a rate per gallon for usage measured in gallons: 1 Ccf equals 748 gallons.” to be effective July 1, 2021.

**Section 3.** That the Wastewater Division Rate Schedule entitled SCHEDULE E – WHOLESale WASTEWATER TREATMENT as set forth in Section 4 of Resolution No. 1060, as heretofore amended, is amended by inserting into the “Rate” section the following language: “KUB may, at its sole discretion, bill wastewater using the same rates converted to a rate per Ccf for usage measured in Ccf: 1 Ccf equals 748 gallons.” to be effective July 1, 2021.

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Jerry Askew, Chair

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Mark Walker, Board Secretary

APPROVED ON 1<sup>st</sup>  
READING: \_\_\_\_\_  
APPROVED ON 2<sup>nd</sup>  
READING: \_\_\_\_\_  
EFFECTIVE DATE: \_\_\_\_\_  
MINUTE BOOK 43 PAGE \_\_\_\_\_

**RESOLUTION 1434  
EXHIBIT A  
RATE SCHEDULES OF THE WATER DIVISION  
EFFECTIVE JULY 1, 2021**

**Knoxville Utilities Board  
Water Division**

**WATER GENERAL SERVICE - RESIDENTIAL**

Availability

Service under this rate schedule shall be available only to residential customers served individually through a separate meter.

An existing customer or applicant for service under this schedule may be required to execute a contract specifying, among other things, a minimum bill and minimum term for service under this schedule.

Rate

The Water Service Charge shall be calculated using the applicable rate tables provided below, based on the customer's meter size and monthly water usage. KUB may, at its sole discretion, bill water using the same rates converted to a rate per gallon for usage measured in gallons: 1 Ccf equals 748 gallons.

In the event more than one meter is utilized to determine billed consumption, multiple basic service charges may apply. Charges will apply without regard to ownership of the meter(s).

1. Inside City Rate

For water furnished to premises entirely within the corporate limits of the City of Knoxville:

Basic Service Charge

5/8" meter	\$18.00
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For meters greater than 5/8" the Customer Charges listed in the Water Nonresidential schedule shall be utilized.

Commodity Charge

First	2 Ccf	at	\$ 1.10 per Ccf
Over	2 Ccf	at	\$ 2.80 per Ccf



## 2. Outside City Rate

For water furnished to premises upon which any water faucet or other outlet is outside the corporate limits of the City of Knoxville:

### Basic Service Charge

5/8" meter                      \$ 19.40

For meters greater than 5/8" the Customer Charges listed in the Water Nonresidential schedule shall be utilized.

### Commodity Charge

First	2 Ccf	at	\$ 1.20 per Ccf
Over	2 Ccf	at	\$ 3.35 per Ccf

### Rules and Regulations

Service is subject to Rules and Regulations of KUB.

## WATER GENERAL SERVICE – NONRESIDENTIAL

### Availability

Service under this rate schedule shall be available to any commercial or industrial customer.

An existing customer or applicant for service under this schedule may be required to execute a contract specifying, among other things, a minimum bill and minimum term for service under this schedule.

### Rate

The Water Service Charge shall be calculated using the applicable rate tables provided below, based on the customer's meter size and monthly water usage. KUB may, at its sole discretion, bill water using the same rates converted to a rate per gallon for usage measured in gallons: 1 Ccf equals 748 gallons.

In the event more than one meter is utilized to determine billed consumption, multiple customer charges may apply. Charges will apply without regard to ownership of the meter(s).

### 3. Inside City / Industrial Park Rate

For water furnished to premises entirely within the corporate limits of the City of Knoxville or within the boundaries of an area recognized as an industrial park by the Tennessee Department of Economic and Community Development:

#### Customer Charge

5/8" meter	\$ 18.50
1" meter	\$ 32.10
1 ½" meter	\$ 51.00
2" meter	\$ 66.00
3" meter	\$ 176.00
4" meter	\$ 281.00
6" meter	\$ 583.00
8" meter	\$ 1,026.00
10" meter	\$ 1,563.00
12" meter	\$ 2,357.00

Commodity Charge

First	2 Ccf	at	\$ 2.20 per Ccf
Next	8 Ccf	at	\$ 4.65 per Ccf
Next	90 Ccf	at	\$ 5.70 per Ccf
Next	300 Ccf	at	\$ 4.25 per Ccf
Next	4,600 Ccf	at	\$ 2.65 per Ccf
Over	5,000 Ccf	at	\$ 1.25 per Ccf

4. Outside – City Rate

For water furnished to premises upon which any water faucet or other outlet is outside the corporate limits of the City of Knoxville, excluding premises within the boundaries of an area recognized as an industrial park by the Tennessee Department of Economic and Community Development:

Customer Charge

5/8" meter	\$ 20.00
1" meter	\$ 37.00
1 ½" meter	\$ 57.50
2" meter	\$ 76.50
3" meter	\$ 207.00
4" meter	\$ 336.00
6" meter	\$ 715.00
8" meter	\$ 1,255.50
10" meter	\$ 1,910.50
12" meter	\$ 2,830.50

Commodity Charge

First	2 Ccf	at	\$ 2.60 per Ccf
Next	8 Ccf	at	\$ 5.35 per Ccf
Next	90 Ccf	at	\$ 6.90 per Ccf
Next	300 Ccf	at	\$ 4.95 per Ccf
Next	4,600 Ccf	at	\$ 3.20 per Ccf
Over	5,000 Ccf	at	\$ 1.50 per Ccf

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

## SCHEDULE B – PRIVATE FIRE SERVICE

### Availability

Under this schedule, KUB provides water supply to privately owned automatic sprinklers or hose outlets. Such service is available to any residential, commercial, or industrial customer.

### Rate

The private Fire Service Charge shall be calculated using the table below based on the customer's fire line connections.

#### Monthly Service Charge per Connection

Connection less than 4"	\$ 32.14
4" Connection	\$ 97.65
6" Connection	\$ 213.15
8" Connection	\$ 374.15
10" Connection	\$ 570.85
12" Connection and greater	\$ 843.85

These service charges shall be in addition to the charge for any water use through fire line connections. The amount of unmetered water so used, as determined by KUB, shall be paid for at KUB's applicable rate schedules.

No charge under this Schedule B shall be made where the water supply to private fire protection facilities is through one or more metered connection(s) for which payment is made under the Water General Service – Nonresidential Rate Schedule.

No credit for charges under this rate schedule shall be allowed against the Water General Service – Nonresidential Rate Schedule charge for water supplied through a fire line to one or more metered connection(s) where the fire line serves as a connecting line between the metered connection(s) and KUB's mains.

### Rules and Regulations

Service is subject to Rules and Regulations of KUB.

## **SCHEDULE C – UNMETERED GOVERNMENT SERVICE**

For water used from KUB's mains with KUB's permission by any department of a governmental entity through unmetered fire hydrants for purposes other than for public fire service:

### Inside – City Rate

The total amount of water used monthly by each department of a governmental entity for such purposes through a fire hydrant within the corporate limits of the City of Knoxville shall be billed to each such department at the Inside City rates set forth in the Water General Service – Nonresidential Rate Schedule.

### Outside – City Rate

The total amount of water used monthly by each department of a governmental entity for such purposes through a fire hydrant outside the corporate limits of the City of Knoxville shall be billed to each such department at the Outside City rates set forth in the Water General Service – Nonresidential Rate Schedule.

### Rules and Regulations

Service is subject to Rules and Regulations of KUB.

## **SCHEDULE D – PUBLIC FIRE PROTECTION SERVICE**

### Availability

Service under this schedule shall be available only to a governmental entity that undertakes to provide public fire protection service for an area that contains at least four square miles. KUB reserves the right to require any applicant for service under this schedule to execute a contract specifying, among other things, a minimum bill and minimum term for service.

### Rate

For public fire protection service rendered, the governmental entity shall pay KUB a fire protection service charge at the rate of \$534.69 per year for each KUB owned public fire hydrant located within the jurisdictional boundaries of the governmental entity and within areas provided public fire protection service by such governmental entity. In addition to the fire protection service charge, the governmental entity shall pay for all water used for fire fighting at rates set forth in the Water General Service – Nonresidential Rate Schedule.

KUB may contract with other utility providers to supply public fire protection service to an eligible governmental entity in any service area (or portion thereof), where KUB determines it desirable to do so. Charges to a governmental entity for fire protection service provided under such a contract shall be at the same rate specified above, and the hydrants of the utility provider utilized under such a contract shall be deemed to be facilities owned by KUB for the sole purpose of calculating charges under this schedule.

### Rules and Regulations

Service is subject to Rules and Regulations of KUB.

**Knoxville Utilities Board  
Water Division**

**SCHEDULE E – SALES FOR RESALE**

Availability

For water purchased on an interruptible basis for resale by a customer that does not use KUB as its sole supplier of water. This service shall be available only on an interruptible basis and only to the extent, in KUB's sole opinion, that such service can be supplied through existing facilities without adversely affecting water service to any other customer of KUB. Nothing contained herein shall prevent KUB from providing water for resale under the Water General Service – Nonresidential Rate Schedule.

Commodity Charge

\$ 1.48 per Ccf

KUB may, at its sole discretion, bill water using the same rates converted to a rate per gallon for usage measured in gallons: 1 Ccf equals 748 gallons.

Any unauthorized usage under this tariff shall be billed at the Outside City rates set forth in the Water General Service – Nonresidential Rate Schedule.

Rules and Regulations

Service is subject to Rules and Regulations of KUB.

## RESOLUTION NO. 1435

### **A Resolution Requesting the Council of the City of Knoxville, Tennessee to Provide for the Issuance of Not to Exceed Twelve Million and No/100 Dollars (\$12,000,000) In Aggregate Principal Amount of Wastewater System Revenue Bonds, Series 2021B**

**Whereas**, by the provisions of the City Charter of the City of Knoxville, Tennessee (the "City"), the management and operation of City's wastewater system (the "Wastewater System") has been placed under the jurisdiction of the Board of Commissioners (the "Board") of the Knoxville Utilities Board ("KUB"); and

**Whereas**, the Board, after due investigation and consideration, deems it in the best interest of the City for the City to issue and sell not to exceed \$12,000,000 in aggregate principal amount of Wastewater System Revenue Bonds, Series 2021B (the "Wastewater Bonds") for the purpose of providing funds to finance the cost of improvements and extensions to the wastewater collection and treatment system of the City, including the payment of legal, fiscal and administrative costs incident thereto and incident to the issuance and sale of the Wastewater Bonds; and

**Whereas**, the Board has had prepared for passage by the Council of the City a resolution authorizing the issuance of the Wastewater Bonds, a copy of which is attached hereto and made a part hereof (the "Wastewater Resolution").

**Now, Therefore, Be It Hereby Resolved by the Board of Commissioners of the Knoxville Utilities Board:**

**Section 1.** The Board hereby determines and finds that it is in the best interest of the City that the Council of the City adopt the Wastewater Resolution, in substantially the form presented to this meeting with only such changes as the Chief Financial Officer of KUB shall deem necessary, and authorize the issuance and sale of the Wastewater Bonds pursuant thereto, the description of the Wastewater Bonds, the security therefor and the purposes for which said Wastewater Bonds are to be issued, being more fully stated in the Wastewater Resolution.

**Section 2.** As required by the State Funding Board of the State of Tennessee, KUB has heretofore adopted its Debt Management Policy. The Board hereby finds that the issuance of the Wastewater Bonds, as proposed herein, is consistent with the Debt Management Policy.

**Section 3.** The Board hereby formally requests the Council of the City to pass the Wastewater Resolution, and the Board does hereby adopt, ratify, approve, consent and agree to each and every provision contained in the Wastewater Resolution upon adoption.



**Section 4.** The Board has elected and does hereby elect that the Wastewater Bonds be issued under the Wastewater Resolution.

**Section 5.** The Secretary of the Board shall deliver a certified copy of this Resolution to the Mayor and the Council of the City as formal evidence of this Board's action in connection therewith.

**Section 6.** The Board hereby states its intent to reimburse itself from the proceeds of the Wastewater Bonds for expenditures made on or after the date that is sixty (60) days prior to the date of this resolution to make improvements to the Wastewater System.

**Section 7.** This Resolution shall take effect from and after its passage.

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Jerry Askew, Chair

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Mark Walker, Board Secretary

APPROVED ON 1<sup>st</sup>  
& FINAL READING: \_\_\_\_\_  
EFFECTIVE DATE: \_\_\_\_\_  
MINUTE BOOK 43 PAGE \_\_\_\_\_

## **Resolution No. 1435**

### **Summary of Provisions of City Council Resolution Authorizing Issuance of Wastewater Bonds**

#### **Section 1. Authority.**

- Revenue bonds will be issued pursuant to Tennessee Revenue Bond Law and other applicable provisions of law.

#### **Section 2. Definitions.**

- Definitions used in resolution.

#### **Section 3. Declarations.**

- Declares that applicable bond issuance tests have been met so that bonds can be issued on parity basis with other outstanding bonds for the system.

#### **Section 4. Authorization and Terms of Bonds.**

- Authorizes the issuance of the revenue bonds for the system.
- States purpose of issue, which is to (i) provide funds to fund cost of construction related to capital projects, and (ii) pay for any legal, fiscal, and administrative costs associated with the issue and sale of the revenue bonds.
- Bonds shall be fully registered without coupons.
- Interest rate on bonds shall not exceed 5 percent.
- Interest payments shall be made semi-annually.
- Provides that the final maturity date shall not be later than 2051.
- Subject to adjustment, bonds maturing on or before 2031 shall mature without option of prior redemption, and bonds maturing 2032 and thereafter shall be subject to redemption prior to maturity.
- Provides for book-entry registration of bonds.
- Provides execution procedures for bonds.
- Provides for appointment of Registration Agent and Paying Agent for bonds and denotes specific duties required of each agent.

#### **Section 5. Source of Payment.**

- Declares that principal and interest on the bonds shall be payable solely from the revenues of the system and shall be issued on a parity basis with outstanding bonds of system.
- States that the owners of the bonds shall have no recourse to the power of taxation of the City.

### **Section 6. Form of Bonds.**

- Provides for form of actual bonds (sample form).
- Interest income from bond is exempt from all present state, county, and municipal taxation in Tennessee, excluding inheritance, transfer, and estate taxes.

### **Section 7. Pledge of Net Revenues.**

- States that principal, interest, and any premiums on bonds shall be paid from the net revenues of the system on a parity basis with the system's outstanding bonds.

### **Section 8. Applicability of Master Bond Resolutions.**

- Declares that the bonds are issued in compliance with the system's master bond resolution and under the authority of the master bond resolution.

### **Section 9. Sale of Bonds.**

- Provides terms of sale of bonds.
- Bonds may be sold at a negotiated sale or a competitive sale at a price of not less than 98 percent of par.
- Bonds shall not be sold at a negotiated sale without the prior approval of the KUB Board's Audit and Finance Committee.
- Board or the President and Chief Executive Officer (CEO) of KUB, as its designee, is authorized to sell less than the amount of the bonds authorized in the resolution and to make any necessary adjustments to the maturity schedule to facilitate the sale of the bonds, provided the final maturity date cannot be extended.
- If the bonds are sold through a negotiated sale, the President and CEO of KUB is authorized to execute a Bond Purchase Agreement with the applicable underwriter.
- Denotes that bonds may be offered as federally tax-exempt or federally taxable bonds, whichever is the lowest cost to KUB.
- If the bonds are sold through competitive public sale, the bonds shall be awarded by the President and CEO of KUB to the bidder whose bid results in the lowest true interest cost to KUB.
- The President and CEO and the Chief Financial Officer (CFO) are authorized to execute all documents necessary in connection with the sale and delivery of the bonds.

### **Section 10. Disposition of Bond Proceeds.**

- Provides for disposition of bond proceeds to (i) the debt service fund for any accrued interest on the bonds; (ii) the system construction fund, to pay costs of system construction (capital) projects, and (iii) to pay for issuance costs associated with the sale of the bonds.

### **Section 11. Discharge of Bonds.**

- Provides terms for discharging bonds.

**Section 12. Federal Tax Matters.**

- Recognizes that bonds are intended to be federally tax-exempt bonds.
- KUB agrees that it will take no action that will jeopardize the tax-exempt status of the bonds.

**Section 13. Official Statement.**

- Provides for the preparation and distribution of a Preliminary Official Statement and Official Statement describing the bonds of the system.

**Section 14. Continuing Disclosure.**

- City covenants that KUB will provide annual financial disclosure information as required by the Securities and Exchange Commission.

**Section 15. Separability.**

- Declares that in the event any provision(s) of resolution is deemed invalid or unenforceable, all other provisions will remain valid and enforceable.

**Section 16. Repeal of Conflicting Resolutions and Effective Date.**

- Repeals all conflicting resolutions.
- Declares effective date to be date of City Council approval.

**Exhibit A: Form of Bond Purchase Agreement.**

- Substantial form of agreement to be used in the event bonds are sold through a negotiated sale.

RESOLUTION SUPPLEMENTING RESOLUTION NO. R-129-90  
ADOPTED BY THE CITY COUNCIL OF THE CITY OF  
KNOXVILLE, TENNESSEE ON MAY 15, 1990 PROVIDING FOR  
THE ISSUANCE OF NOT TO EXCEED TWELVE MILLION AND  
NO/100 DOLLARS (\$12,000,000) OF WASTEWATER SYSTEM  
REVENUE BONDS, SERIES 2021B.

RESOLUTION NO: \_\_\_\_\_

REQUESTED BY: \_\_\_\_\_

PREPARED BY: \_\_\_\_\_

APPROVED AS TO FORM

CORRECTNESS: \_\_\_\_\_

Law Director

FINANCIAL IMPACT STATEMENT:

\_\_\_\_\_

\_\_\_\_\_  
Director of Finance

APPROVED: \_\_\_\_\_

APPROVED AS AN

EMERGENCY MEASURE: \_\_\_\_\_

MINUTE BOOK \_\_\_\_\_ PAGE \_\_\_\_\_

WHEREAS, the City of Knoxville (the "City"), pursuant to Resolution No. R-129-90 of the City Council adopted May 15, 1990 (which resolution as heretofore amended is hereinafter sometimes referred to as the "1990 Resolution"), authorized the issuance of series of Wastewater System Revenue Bonds; and

WHEREAS, pursuant to the 1990 Resolution, and for the purpose of financing the cost of the extensions and improvements to the City's wastewater collection and treatment system (the "System") and the refinancing of indebtedness issued for that purpose, the City issued Wastewater System Revenue Bonds, the series of which, the amount issued and the amount outstanding as of May 1, 2021, are as follows:

<u>Series</u>	<u>Amount Issued</u>	<u>Amount Outstanding</u>
2010C	\$ 70,000,000	\$ 20,250,000
2015A	\$129,825,000	\$110,625,000
2015B	\$ 30,000,000	\$ 26,950,000
2016	\$ 20,000,000	\$ 17,800,000
2017A	\$ 11,965,000	\$ 5,970,000
2017B	\$ 25,000,000	\$ 23,205,000
2018	\$ 12,000,000	\$ 11,240,000
2019	\$ 16,000,000	\$ 15,450,000
2020A	\$ 28,320,000	\$ 27,445,000
2020B	\$ 27,460,000	\$ 26,910,000
2021A	\$190,815,000	\$190,815,000

WHEREAS, it is desirable that an additional series of bonds be issued to finance the costs of the extensions and improvements to the System, including the payment of legal, fiscal and administrative costs incident thereto and incident to the issuance and sale of the bonds, pursuant to the authorization contained in the 1990 Resolution and this resolution; and

WHEREAS, the Board of Commissioners (the "Board") of the Knoxville Utilities Board ("KUB") has duly adopted a resolution requesting the City Council of the City to adopt this resolution authorizing the issuance of bonds for the purposes and in the manner hereinafter more fully stated; and

WHEREAS, it is the intention of the City Council of the City to adopt this resolution for the purpose of authorizing not to exceed \$12,000,000 in aggregate principal amount of wastewater system revenue bonds for the purposes described above, establishing the terms of such bonds, providing for the issuance, sale and payment of the bonds and disposition of proceeds therefrom, and collection of revenues from the wastewater system of the City and the application thereof to the payment of principal of, premium, if any, and interest on said bonds.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Knoxville, Tennessee, as follows:

Section 1. Authority. The bonds authorized by this resolution are issued pursuant to Sections 7-34-101 et seq. and 9-21-101, et seq., Tennessee Code Annotated, and other applicable provisions of law.

Section 2. Definitions. Capitalized terms used herein and not defined in this Section 2 shall have the meanings ascribed to them in the 1990 Resolution (as hereinbelow defined). The following terms shall have the following meanings in this resolution unless the text expressly or by necessary implication requires otherwise.

- (a) "Board" shall mean the Board of Commissioners of the Knoxville Utilities Board;
- (b) "Bond Purchase Agreement" means a Bond Purchase Agreement, dated as of the sale of the Series 2021B Bonds, entered into by and between KUB and the Underwriter, in substantially the form of the document attached hereto as Exhibit A, subject to such changes as permitted by Section 9 hereof, as approved by the President and Chief Executive Officer of KUB, consistent with the terms of this resolution;
- (c) "Book-Entry Form" or "Book-Entry System" means a form or system, as applicable, under which physical Bond certificates in fully registered form are issued to a Depository, or to its nominee as Registered Owner, with the certificated Bonds being held by and "immobilized" in the custody of such Depository, and under which records maintained by persons, other than the City, KUB or the Registration Agent, constitute the written record that identifies, and records the transfer of, the beneficial "book-entry" interests in those Bonds;
- (d) "City" shall mean the City of Knoxville, Tennessee;
- (e) "Code" shall mean the Internal Revenue Code of 1986, as amended, and any lawful regulations promulgated or proposed thereunder;
- (f) "Depository" means any securities depository that is a clearing agency under federal laws operating and maintaining, with its participants or otherwise, a Book-Entry System, including, but not limited to, DTC;
- (g) "Direct Payment Credit" means any refundable direct payment credit received by the City or KUB from the United States Treasury or other agency or instrumentality of the United States pursuant to the American Infrastructure Bonds Act of 2021 (if enacted) or other similar federal law with respect to any emission of Bonds qualifying as Federally Taxable Bonds for which the City or KUB makes an irrevocable election as set forth herein;
- (h) "DTC" means the Depository Trust Company, a limited purpose company organized under the laws of the State of New York, and its successors and assigns;
- (i) "DTC Participant(s)" means securities brokers and dealers, banks, trust companies and clearing corporations that have access to the DTC system;
- (j) "Federally Taxable Bonds" means for purposes of this resolution, any emission of Bonds, the interest on which is includable in gross income of the holders thereof for federal income tax purposes and that, when issued, qualify to receive Direct Payment Credits;
- (k) "Federally Tax-Exempt Bonds" means any emission of Bonds, the interest on which is intended to be excludable from gross income of the holders thereof for federal income tax purposes;
- (l) "Financial Adviser" means Cumberland Securities Company, Inc.;
- (m) "Governing Body" shall mean the City Council of the City;
- (n) "KUB" shall mean the Knoxville Utilities Board;

(o) "1990 Resolution" shall mean Resolution No. R-129-90 of the Governing Body, adopted May 15, 1990, as supplemented and amended by Resolution No. R-5-98, Resolution No. R-148-01 and Resolution No. 11-S and as otherwise supplemented prior to the date hereof;

(p) "Outstanding Bonds" shall mean the City's outstanding Wastewater System Revenue Bond, Series 2010C (Federally Taxable Build America Bonds), dated December 8, 2010, maturing April 1, 2040, its outstanding Wastewater System Revenue Refunding Bonds, Series 2015A, dated May 1, 2015, maturing April 1, 2022 and thereafter, its outstanding Wastewater System Revenue Bonds, Series 2015B, dated May 20, 2015, maturing April 1, 2022 and thereafter, its outstanding Wastewater System Revenue Bonds, Series 2016, dated August 5, 2016, maturing April 1, 2022 and thereafter, its outstanding Wastewater System Revenue Refunding Bonds, Series 2017A, dated April 7, 2017, maturing April 1, 2022 and thereafter, its outstanding Wastewater System Revenue Bonds, Series 2017B, dated September 15, 2017, maturing April 1, 2022 and thereafter, its outstanding Wastewater System Revenue Bonds, Series 2018, dated September 14, 2018, maturing April 1, 2022 and thereafter, its outstanding Wastewater System Revenue Bonds, Series 2019, dated August 20, 2019, maturing April 1, 2022 and thereafter, its outstanding Wastewater System Revenue Refunding Bonds, Series 2020A, dated May 22, 2020, maturing April 1, 2022 and thereafter, its outstanding Wastewater System Revenue Bonds, Series 2020B, dated October 30, 2020, maturing April 1, 2022 and thereafter, and its outstanding Wastewater System Revenue Refunding Bonds, Series 2021A, dated April 19, 2021, maturing April 1, 2022 and thereafter;

(q) "Parity Bonds" shall mean any bonds issued pursuant to the 1990 Resolution on a parity with the Series 2021B Bonds and the Outstanding Bonds;

(r) "Project" shall mean extensions and improvements to the System;

(s) "Registration Agent" shall mean the registration and paying agent for the Series 2021B Bonds designated by the President and Chief Executive Officer of KUB, or any successor as designated by the Board;

(t) "Series 2021B Bonds" shall mean the City's Wastewater System Revenue Bonds, Series 2021B, issued pursuant to this resolution, to be dated the date of their issuance, or such other date as shall be determined by the Board pursuant to Section 9 hereof, authorized to be issued by the 1990 Resolution and this resolution in an aggregate principal amount not to exceed \$12,000,000;

(u) "State" shall mean the State of Tennessee; and

(v) "Underwriter" shall mean an investment banking firm qualified to underwrite bonds such as the Series 2021B Bonds in the State of Tennessee selected by the President and Chief Executive Officer of KUB.

Section 3. Declarations. It is hereby determined that all requirements of the 1990 Resolution have been or will have been met upon the issuance of the Series 2021B Bonds so that the Series 2021B Bonds will be issued as Parity Bonds.

Section 4. Authorization and Terms of the Series 2021B Bonds. (a) For the purpose of providing funds to finance the costs of construction of the Project including the payment of legal, fiscal and administrative costs incident thereto and incident to the issuance and sale of the Series 2021B Bonds as more fully set out in Section 9 hereof, there are hereby authorized to be issued revenue bonds of the City in the aggregate principal amount of not to exceed \$12,000,000. The Series 2021B Bonds shall be issued in fully registered form, without coupons, shall be known as "Wastewater System Revenue Bonds, Series 2021B" and shall be dated the date of their issuance or such other date as shall be determined by



the Board or the President and Chief Executive Officer of KUB as its designee pursuant to Section 9 hereof. The Series 2021B Bonds shall bear interest at a rate or rates not to exceed five percent (5.00%) per annum, payable semi-annually on April 1 and October 1 in each year, commencing April 1, 2022 or such other date as is permitted pursuant to Section 9 hereof. The Series 2021B Bonds shall be initially issued in \$5,000 denominations or integral multiples thereof as shall be requested by the purchaser thereof. The Series 2021B Bonds shall mature and be payable either serially or through mandatory redemption on each April 1 in such years as is established by the Board or the President and Chief Executive Officer of KUB as its designee pursuant to Section 9, provided that the final maturity date shall not be later than April 1, 2051. The final maturity schedule shall be established by the award resolution or certificate awarding the Series 2021B Bonds to the successful purchaser thereof or in the Bond Purchase Agreement provided for in Section 9 if the Series 2021B Bonds are sold by negotiated sale.

(b) Subject to adjustment pursuant to Section 9 hereof, the Series 2021B Bonds maturing on or before April 1, 2031 shall mature without option of prior redemption, and Series 2021B Bonds maturing on April 1, 2032 and thereafter shall be subject to redemption prior to maturity at the option of the City, acting through the Board, on or after April 1, 2031, as a whole or in part at any time at a redemption price equal to the principal amount plus interest accrued to the redemption date.

If less than all of the Series 2021B Bonds shall be called for redemption, the maturities to be redeemed shall be selected by the Board in its discretion. If less than all of the Series 2021B Bonds within a single maturity shall be called for redemption, the interests within the maturity to be redeemed shall be selected as follows:

(i) if the Series 2021B Bonds are being held under a Book-Entry System by DTC, or a successor Depository, the amount of the interest of each DTC Participant in the Series 2021B Bonds to be redeemed shall be determined by DTC, or such successor Depository, by lot or such other manner as DTC, or such successor Depository, shall determine; or

(ii) if the Series 2021B Bonds are not being held under a Book-Entry System by DTC, or a successor Depository, the Series 2021B Bonds within the maturity to be redeemed shall be selected by the Registration Agent by lot or such other random manner as the Registration Agent in its discretion shall determine.

(c) Pursuant to Section 9 hereof, KUB is authorized to sell each of the Series 2021B Bonds, or any maturities thereof, as term bonds with mandatory redemption requirements corresponding to the maturities set forth herein or as determined by KUB. In the event any or all of the Series 2021B Bonds are sold as term bonds, KUB shall redeem such term bonds on redemption dates corresponding to the maturity dates set forth in the award resolution or certificate awarding the Series 2021B Bonds, in amounts so as to achieve an amortization of the indebtedness approved by the Board or the President and Chief Executive Officer of KUB as its designee. DTC, as Depository for the Series 2021B Bonds, or any successor Depository for the Series 2021B Bonds, shall determine the interest of each Participant in the Series 2021B Bonds to be redeemed using its procedures generally in use at that time. If DTC, or another securities depository is no longer serving as Depository for the Series 2021B Bonds, the Series 2021B Bonds to be redeemed within a maturity shall be selected by the Registration Agent by lot or such other random manner as the Registration Agent in its discretion shall select.

At its option, to be exercised on or before the forty-fifth (45th) day next preceding any such redemption date, KUB may (i) deliver to the Registration Agent for cancellation Series 2021B Bonds to be redeemed, in any aggregate principal amount desired, and/or (ii) receive a credit in respect of its redemption obligation under this mandatory redemption provision for any Series 2021B Bonds of the maturity to be redeemed which prior to said date have been purchased or redeemed (otherwise than

through the operation of this mandatory sinking fund redemption provision) and canceled by the Registration Agent and not theretofore applied as a credit against any redemption obligation under this mandatory sinking fund provision. Each Series 2021B Bond so delivered or previously purchased or redeemed shall be credited by the Registration Agent at 100% of the principal amount thereof on the obligation of KUB on such payment date and any excess shall be credited on future redemption obligations in chronological order, and the principal amount of Series 2021B Bonds to be redeemed by operation of this mandatory sinking fund provision shall be accordingly reduced. KUB shall on or before the forty-fifth (45th) day next preceding each payment date furnish the Registration Agent with its certificate indicating whether or not and to what extent the provisions of clauses (i) and (ii) of this subsection are to be availed of with respect to such payment and confirm that funds for the balance of the next succeeding prescribed payment will be paid on or before the next succeeding payment date.

(d) Notice of call for redemption, whether optional or mandatory, shall be given by the Registration Agent not less than twenty (20) nor more than sixty (60) days prior to the date fixed for redemption by sending an appropriate notice to the registered owners of the Series 2021B Bonds to be redeemed by first-class mail, postage prepaid, at the addresses shown on the bond registration records of the Registration Agent as of the date of the notice; but neither failure to mail such notice nor any defect in any such notice so mailed shall affect the sufficiency of the proceedings for redemption of any of the Series 2021B Bonds for which proper notice was given. The notice may state that it is conditioned upon the deposit of moneys in an amount equal to the amount necessary to affect the redemption with the Registration Agent no later than the redemption date ("Conditional Redemption"). As long as DTC, or a successor Depository, is the registered owner of the Series 2021B Bonds, all redemption notices shall be mailed by the Registration Agent to DTC, or such successor Depository, as the registered owner of the of Series 2021B Bonds, as and when above provided, and neither KUB, the City, nor the Registration Agent shall be responsible for mailing notices of redemption to DTC Participants or Beneficial Owners. Failure of DTC, or any successor Depository, to provide notice to any DTC Participant or Beneficial Owner will not affect the validity of such redemption. The Registration Agent shall mail said notices, in the case of term bonds with mandatory redemption requirements as and when provided herein and in the Series 2021B Bonds and, in the case of optional redemption, as and when directed by the Board pursuant to written instructions from an authorized representative of the Board given at least forty-five (45) days prior to the redemption date (unless a shorter notice period shall be satisfactory to the Registration Agent). From and after the redemption date, all Series 2021B Bonds called for redemption shall cease to bear interest if funds are available at the office of the Registration Agent for the payment thereof and if notice has been duly provided as set forth herein. In the case of a Conditional Redemption, the failure of the City or KUB to make funds available in part or in whole on or before the redemption date shall not constitute an event of default, and the Registration Agent shall give immediate notice to the Depository or the affected Bondholders that the redemption did not occur and that the Bonds called for redemption and not so paid remain outstanding.

(e) The Series 2021B Bonds shall be executed in such manner as may be prescribed by applicable law, in the name, and on behalf, of the City with the manual or facsimile signature of the Chair of the Board and attested by the manual or facsimile signature of the Secretary of the Board.

(f) The City hereby authorizes and directs the Board to appoint a Registration Agent and paying agent for the Series 2021B Bonds, and the Registration Agent so appointed is authorized and directed to maintain Bond registration records with respect to the Series 2021B Bonds, to authenticate and deliver the Series 2021B Bonds as provided herein, either at original issuance, upon transfer, or as otherwise directed by the Board, to effect transfers of the Series 2021B Bonds, to give all notices of redemption as required herein, to make all payments of principal and interest with respect to the Series 2021B Bonds as provided herein, to cancel and destroy Series 2021B Bonds which have been paid at maturity or upon earlier redemption or submitted for exchange or transfer, to furnish KUB at least

annually a certificate of destruction with respect to Series 2021B Bonds canceled and destroyed, and to furnish KUB at least annually an audit confirmation of Bonds paid, Bonds outstanding and payments made with respect to interest on the Series 2021B Bonds. The payment of all reasonable fees and expenses of the Registration Agent for the discharge of its duties and obligations hereunder or under any such agreement is hereby authorized and directed. The Board hereby delegates to the President and Chief Executive Officer of KUB the authority to select and appoint the Registration Agent and any paying agents for the Series 2021B Bonds (as well as any successors to any of the foregoing). The Chair of the Board is hereby authorized to execute and the Secretary of the Board is hereby authorized to attest such written agreement between KUB and the Registration Agent as they shall deem necessary or proper with respect to the obligations, duties and rights of the Registration Agent.

(g) The Series 2021B Bonds shall be payable, principal and interest, in lawful money of the United States of America at the designated trust office of the Registration Agent. The Registration Agent shall make all interest payments with respect to the Series 2021B Bonds on each interest payment date directly to the registered owners as shown on the Bond registration records maintained by the Registration Agent as of the close of business on the fifteenth day of the month next preceding the interest payment date (the "Regular Record Date") by check or draft mailed to such owners at their addresses shown on said Bond registration records, without, except for final payment, the presentation or surrender of such Series 2021B Bonds, and all such payments shall discharge the obligations of KUB in respect of such Series 2021B Bonds to the extent of the payments so made. Payment of principal of the Series 2021B Bonds shall be made upon presentation and surrender of such registered Series 2021B Bonds to the Registration Agent as the same shall become due and payable. All rates of interest specified herein shall be computed on the basis of a three hundred sixty (360) day year composed of twelve (12) months of thirty (30) days each. In the event the Series 2021B Bonds are no longer registered in the name of DTC, or a successor Depository, if requested by the Owner of at least \$1,000,000 in aggregate principal amount of the Series 2021B Bonds, payment of interest on such Series 2021B Bonds shall be paid by wire transfer to a bank within the continental United States or deposited to a designated account if such account is maintained with the Registration Agent and written notice of any such election and designated account is given to the Registration Agent prior to the record date.

(h) Any interest on any Series 2021B Bond which is payable but is not punctually paid or duly provided for on any interest payment date (hereinafter "Defaulted Interest") shall forthwith cease to be payable to the registered owner on the relevant Regular Record Date; and, in lieu thereof, such Defaulted Interest shall be paid to the persons in whose names the Series 2021B Bonds are registered at the close of business on a date (the "Special Record Date") for the payment of such Defaulted Interest, which shall be fixed in the following manner: KUB shall notify the Registration Agent in writing of the amount of Defaulted Interest proposed to be paid on each Series 2021B Bond and the date of the proposed payment, and at the same time KUB shall deposit with the Registration Agent an amount of money equal to the aggregate amount proposed to be paid in respect of such Defaulted Interest or shall make arrangements satisfactory to the Registration Agent for such deposit prior to the date of the proposed payment, such money when deposited to be held in trust for the benefit of the persons entitled to such Defaulted Interest as in this Section 4 provided. Thereupon, not less than ten (10) days after the receipt by the Registration Agent of the notice of the proposed payment, the Registration Agent shall fix a Special Record Date for the payment of such Defaulted Interest which Date shall be not more than fifteen (15) nor less than ten (10) days prior to the date of the proposed payment to the registered owners. The Registration Agent shall promptly notify KUB of such Special Record Date and, in the name and at the expense of KUB, not less than ten (10) days prior to such Special Record Date, shall cause notice of the proposed payment of such Defaulted Interest and the Special Record Date therefor to be mailed, first class postage prepaid, to each registered owner at the address thereof as it appears in the Bond registration records maintained by the Registration Agent as of the date of such notice. Nothing contained in this Section 4 or in any of the Series 2021B Bonds shall impair any statutory or other rights in law or in equity

of any registered owner arising as a result of the failure of KUB to punctually pay or duly provide for the payment of principal of, premium, if any, and interest on any of the Series 2021B Bonds when due.

(i) The Series 2021B Bonds are transferable only by presentation to the Registration Agent by the registered owner, or his legal representative duly authorized in writing, of the registered Series 2021B Bond(s) to be transferred with the form of assignment on the reverse side thereof completed in full and signed with the name of the registered owner as it appears upon the face of the Series 2021B Bond(s) accompanied by appropriate documentation necessary to prove the legal capacity of any legal representative of the registered owner. Upon receipt of the Series 2021B Bond(s) in such form and with such documentation, if any, the Registration Agent shall issue a new Series 2021B Bond or Series 2021B Bonds to the assignee(s) in \$5,000 denominations, or integral multiples thereof, as requested by the registered owner requesting transfer. The Registration Agent shall not be required to transfer or exchange any Series 2021B Bond during the period commencing on a Regular or Special Record Date and ending on the corresponding interest payment date of such Series 2021B Bond, nor to transfer or exchange any Series 2021B Bond after notice calling such Series 2021B Bond for redemption has been made, nor to transfer or exchange any Series 2021B Bond during the period following the receipt of instructions from KUB to call such Series 2021B Bond for redemption; provided, the Registration Agent, at its option, may make transfers after any of said dates. No charge shall be made to any registered owner for the privilege of transferring any Series 2021B Bond, provided that any transfer tax relating to such transaction shall be paid by the registered owner requesting transfer. The person in whose name any Series 2021B Bond shall be registered shall be deemed and regarded as the absolute owner thereof for all purposes and neither KUB nor the Registration Agent shall be affected by any notice to the contrary whether or not any payments due on the Series 2021B Bonds shall be overdue. Series 2021B Bonds, upon surrender to the Registration Agent, may, at the option of the registered owner, be exchanged for an equal aggregate principal amount of Series 2021B Bonds of the same maturity in any authorized denomination or denominations. This subsection shall be applicable only if the Series 2021B Bonds are no longer held by a Depository, and as long as the Series 2021B Bonds are held by a Depository, transfers of ownership interests in the Series 2021B Bonds shall be governed by the rules of the Depository.

(j) Except as otherwise authorized herein, the Series 2021B Bonds shall be registered in the name of Cede & Co., as nominee of DTC, which will act as the Depository for the Series 2021B Bonds except as otherwise provided herein. References in this Section 4 to a Series 2021B Bond or the Series 2021B Bonds shall be construed to mean the Series 2021B Bond or the Series 2021B Bonds that are held under the Book-Entry System. One Series 2021B Bond for each maturity of the Series 2021B Bonds shall be issued to DTC and immobilized in its custody or a custodian of DTC. The Bond Registrar is a custodian and agent for DTC, and the Series 2021B Bond will be immobilized in its custody. A Book-Entry System shall be employed, evidencing ownership of the Series 2021B Bonds in authorized denominations, with transfers of beneficial ownership effected on the records of DTC and the DTC Participants pursuant to rules and procedures established by DTC.

Each DTC Participant shall be credited in the records of DTC with the amount of such DTC Participant's interest in the Series 2021B Bonds. Beneficial ownership interests in the Series 2021B Bonds may be purchased by or through DTC Participants. The holders of these beneficial ownership interests are hereinafter referred to as the "Beneficial Owners." The Beneficial Owners shall not receive the Series 2021B Bonds representing their beneficial ownership interests. The ownership interests of each Beneficial Owner shall be recorded through the records of the DTC Participant from which such Beneficial Owner purchased its Series 2021B Bonds. Transfers of ownership interests in the Series 2021B Bonds shall be accomplished by book entries made by DTC and, in turn, by DTC Participants acting on behalf of Beneficial Owners. SO LONG AS CEDE & CO., AS NOMINEE FOR DTC, IS THE REGISTERED OWNER OF THE SERIES 2021B BONDS, THE REGISTRATION AGENT SHALL TREAT CEDE & CO., AS THE ONLY HOLDER OF THE SERIES 2021B BONDS FOR ALL

PURPOSES UNDER THIS RESOLUTION, INCLUDING RECEIPT OF ALL PRINCIPAL OF, PREMIUM, IF ANY, AND INTEREST ON THE SERIES 2021B BONDS, RECEIPT OF NOTICES, VOTING AND TAKING OR NOT TAKING, OR CONSENTING TO, CERTAIN ACTIONS UNDER THIS RESOLUTION.

Payments of principal, interest, and redemption premium, if any, with respect to the Series 2021B Bonds, so long as DTC is the only owner of the Series 2021B Bonds, shall be paid by the Registration Agent directly to DTC or its nominee, Cede & Co. as provided in the Letter of Representation relating to the Series 2021B Bonds from the City, acting by and through KUB, and the Registration Agent to DTC (the "Letter of Representation"). DTC shall remit such payments to DTC Participants, and such payments thereafter shall be paid by DTC Participants to the Beneficial Owners. Neither the City, KUB nor the Registration Agent shall be responsible or liable for payment by DTC or DTC Participants, for sending transaction statements or for maintaining, supervising or reviewing records maintained by DTC or DTC Participants.

In the event that (1) DTC determines not to continue to act as Depository for the Series 2021B Bonds or (2) to the extent permitted by the rules of DTC, the Board determines to discontinue the Book-Entry System, the Book-Entry System with DTC shall be discontinued. If the Board fails to identify another qualified securities depository to replace DTC, the Board shall cause the Registration Agent to authenticate and deliver replacement Series 2021B Bonds in the form of fully registered Series 2021B Bonds to each Beneficial Owner.

NEITHER THE CITY, KUB NOR THE REGISTRATION AGENT SHALL HAVE ANY RESPONSIBILITY OR OBLIGATIONS TO ANY DTC PARTICIPANT OR ANY BENEFICIAL OWNER WITH RESPECT TO (i) THE SERIES 2021B BONDS; (ii) THE ACCURACY OF ANY RECORDS MAINTAINED BY DTC OR ANY DTC PARTICIPANT; (iii) THE PAYMENT BY DTC OR ANY DTC PARTICIPANT OF ANY AMOUNT DUE TO ANY BENEFICIAL OWNER IN RESPECT OF THE PRINCIPAL OF AND INTEREST ON THE SERIES 2021B BONDS; (iv) THE DELIVERY OR TIMELINESS OF DELIVERY BY DTC OR ANY DTC PARTICIPANT OF ANY NOTICE DUE TO ANY BENEFICIAL OWNER THAT IS REQUIRED OR PERMITTED UNDER THE TERMS OF THIS RESOLUTION TO BE GIVEN TO BENEFICIAL OWNERS, (v) THE SELECTION OF BENEFICIAL OWNERS TO RECEIVE PAYMENTS IN THE EVENT OF ANY PARTIAL REDEMPTION OF THE SERIES 2021B BONDS; OR (vi) ANY CONSENT GIVEN OR OTHER ACTION TAKEN BY DTC, OR ITS NOMINEE, CEDE & CO., AS OWNER.

If the purchaser or Underwriter certifies that it intends to hold the Series 2021B Bonds for its own account, then the City may issue, acting by and through KUB, certificated Bonds without the utilization of DTC and the Book-Entry System.

(k) In case any Series 2021B Bond shall become mutilated, or be lost, stolen, or destroyed, the City, acting by and through KUB, in its discretion, shall issue, and the Registration Agent, upon written direction from KUB, shall authenticate and deliver, a new Series 2021B Bond of like tenor, amount, maturity and date, in exchange and substitution for, and upon the cancellation of, the mutilated Series 2021B Bond, or in lieu of and in substitution for such lost, stolen or destroyed Series 2021B Bond, or if any such Series 2021B Bond shall have matured or shall be about to mature, instead of issuing a substituted Series 2021B Bond KUB may pay or authorize payment of such Series 2021B Bond without surrender thereof. In every case the applicant shall furnish evidence satisfactory to KUB and the Registration Agent of the destruction, theft or loss of such Series 2021B Bond, and indemnity satisfactory to KUB and the Registration Agent; and KUB may charge the applicant for the issue of such new Series 2021B Bond an amount sufficient to reimburse KUB for the expense incurred by it in the issue thereof.

(l) The Registration Agent is hereby authorized to authenticate and deliver the Series 2021B Bonds to DTC, on behalf of the initial purchaser thereof, or an agent of DTC, upon receipt by KUB of the proceeds of the sale thereof and, subject to the rules of the Depository, to authenticate and deliver Series 2021B Bonds in exchange for Series 2021B Bonds of the same principal amount delivered for transfer upon receipt of the Series 2021B Bond(s) to be transferred in proper form with proper documentation as hereinabove described. The Series 2021B Bonds shall not be valid for any purpose unless authenticated by the Registration Agent by the manual signature of an authorized representative thereof on the certificate set forth herein on the Series 2021B Bond form.

(m) The Registration Agent is hereby authorized to take such action as may be necessary from time to time to qualify and maintain the Series 2021B Bonds for deposit with DTC, including but not limited to, wire transfers of interest and principal payments with respect to the Series 2021B Bonds, utilization of electronic book entry data received from DTC in place of actual delivery of Series 2021B Bonds and provision of notices with respect to Series 2021B Bonds registered by DTC (or any of its designees identified to the Registration Agent) by overnight delivery, courier service, telegram, telecopy or other similar means of communication. No such arrangements with DTC may adversely affect the interest of any of the Beneficial Owners of the Series 2021B Bonds, provided, however, that the Registration Agent shall not be liable with respect to any such arrangements it may make pursuant to this Section 4.

Section 5. Source of Payment. The Series 2021B Bonds shall be payable solely from and be secured by a pledge of the Net Revenues of the System as hereinafter provided and as provided in the 1990 Resolution on a parity and equality of lien with the Outstanding Bonds. The punctual payment of principal of and interest on the Series 2021B Bonds, the Outstanding Bonds, and any Parity Bonds shall be secured equally and ratably by the Net Revenues of the System without priority by reason of series, number or time of sale and delivery. The owners of the Series 2021B Bonds shall have no recourse to the power of taxation of the City.

Section 6. Form of Series 2021B Bonds. The Series 2021B Bonds shall be in substantially the following form, the omissions to be appropriately completed when the Series 2021B Bonds are prepared and delivered:

(Form of Series 2021B Bond)

REGISTERED  
Number \_\_\_\_\_

REGISTERED  
\$ \_\_\_\_\_

UNITED STATES OF AMERICA  
STATE OF TENNESSEE  
COUNTY OF KNOX  
CITY OF KNOXVILLE  
WASTEWATER SYSTEM REVENUE BOND, SERIES 2021B

Interest Rate:                      Maturity Date:                      Date of Bond:                      CUSIP No.

Registered Owner:  
Principal Amount:

KNOW ALL PERSONS BY THESE PRESENTS: That the City of Knoxville, a municipal corporation lawfully organized and existing in Knox County, Tennessee (the "City"), acting by and through the Knoxville Utilities Board ("KUB"), for value received hereby promises to pay to the

registered owner hereof, hereinabove named, or registered assigns, in the manner hereinafter provided, the principal amount hereinabove set forth on the maturity date hereinabove set forth, or upon earlier redemption, as set forth herein, and to pay interest (computed on the basis of a 360-day year of twelve 30-day months) on said principal amount at the annual rate of interest hereinabove set forth from the date hereof until said maturity date or redemption date, said interest being payable on April 1, 2022, and semi-annually thereafter on the first day of April and October in each year until this Bond matures or is redeemed. Both principal hereof and interest hereon are payable in lawful money of the United States of America by check or draft at the designated trust office of \_\_\_\_\_, \_\_\_\_\_, Tennessee, as registration agent and paying agent (the "Registration Agent"). The Registration Agent shall make all interest payments with respect to this Bond by check or draft on each interest payment date directly to the registered owner hereof shown on the bond registration records maintained by the Registration Agent as of the close of business on the day which is the fifteenth (15th) day of the month next preceding the interest payment date (the "Regular Record Date") by depositing said payment in the United States mail, postage prepaid, addressed to such owner at such owner's address shown on said bond registration records, without, except for final payment, the presentation or surrender of this Bond, and all such payments shall discharge the obligations of the City and KUB to the extent of the payments so made. Any such interest not so punctually paid or duly provided for on any interest payment date shall forthwith cease to be payable to the registered owner on the relevant Regular Record Date; and, in lieu thereof, such defaulted interest shall be payable to the person in whose name this Bond is registered at the close of business on the date (the "Special Record Date") for payment of such defaulted interest to be fixed by the Registration Agent, notice of which shall be given to the owners of the Bonds of the issue of which this Bond is one not less than ten (10) days prior to such Special Record Date. Payment of principal of and premium, if any, on the Bonds shall be made when due upon presentation and surrender of this Bond to the Registration Agent.

Except as otherwise provided herein or in the Resolution, as hereinafter defined, this Bond shall be registered in the name of Cede & Co., as nominee of The Depository Trust Company, New York, New York ("DTC"), which will act as securities depository for the Bonds of the series of which this Bond is one. One Bond for each maturity of the Bonds shall be issued to DTC and immobilized in its custody or a custodian of DTC. The Bond Registrar is a custodian and agent for DTC, and the Bond will be immobilized in its custody. A book-entry system (the "Book-Entry System") shall be employed, evidencing ownership of the Bonds in \$5,000 denominations, or multiples thereof, with transfers of beneficial ownership effected on the records of DTC and the DTC Participants, as defined in the Resolution, pursuant to rules and procedures established by DTC. So long as Cede & Co., as nominee for DTC, is the registered owner of the Bonds, the City, KUB and the Registration Agent shall treat Cede & Co., as the only owner of the Bonds for all purposes under the Resolution, including receipt of all principal of, premium, if any, and interest on the Bonds, receipt of notices, voting and requesting or taking or not taking, or consenting to, certain actions hereunder. Payments of principal, maturity amounts, interest, and redemption premium, if any, with respect to the Bonds, so long as DTC is the only owner of the Bonds, shall be paid directly to DTC or its nominee, Cede & Co. DTC shall remit such payments to DTC Participants, and such payments thereafter shall be paid by DTC Participants to the Beneficial Owners, as defined in the Resolution. Neither the City, KUB, nor the Registration Agent shall be responsible or liable for payment by DTC or DTC Participants, for sending transaction statements or for maintaining, supervising or reviewing records maintained by DTC or DTC Participants. In the event that (1) DTC determines not to continue to act as securities depository for the Bonds or (2) to the extent permitted by the rules of DTC, the Board of Commissioners of KUB (the "Board") determines to discontinue the Book-Entry System, the Book-Entry System with DTC shall be discontinued. If the Board fails to identify another qualified securities depository to replace DTC, the Board shall cause the Registration Agent to authenticate and deliver replacement Bonds in the form of fully registered Bonds to each Beneficial Owner. Neither the City, KUB nor the Registration Agent shall have any responsibility or obligations to any DTC Participant or any Beneficial Owner with respect to (i) the Bonds; (ii) the

accuracy of any records maintained by DTC or any DTC Participant; (iii) the payment by DTC or any DTC Participant of any amount due to any Beneficial Owner in respect of the principal or maturity amounts of and interest on the Bonds; (iv) the delivery or timeliness of delivery by DTC or any DTC Participant of any notice due to any Beneficial Owner that is required or permitted under the terms of the Resolution to be given to Beneficial Owners, (v) the selection of Beneficial Owners to receive payments in the event of any partial redemption of the Bonds; or (vi) any consent given or other action taken by DTC, or its nominee, Cede & Co., as owner.

The Bonds of the issue of which this Bond is one maturing on or before April 1, 2031 shall mature without option of prior redemption. The Bonds maturing on April 1, 2032 and thereafter shall be subject to redemption prior to maturity at the option of the City, acting through the Board, on or after April 1, 2031, as a whole or in part at any time at a redemption price equal to the principal amount plus interest accrued to the redemption date.

[If less than all the Bonds shall be called for redemption, the maturities to be redeemed shall be selected by the Board in its discretion. If less than all of the Bonds within a single maturity shall be called for redemption, the interests within the maturity to be redeemed shall be selected as follows:

(i) if the Bonds are being held under a Book-Entry System by DTC, or a successor Depository, the amount of the interest of each DTC Participant in the Bonds to be redeemed shall be determined by DTC, or such successor Depository, by lot or such other manner as DTC, or such successor Depository, shall determine; or

(ii) if the Series Bonds are not being held under a Book-Entry System by DTC, or a successor Depository, the Bonds within the maturity to be redeemed shall be selected by the Registration Agent by lot or such other random manner as the Registration Agent in its discretion shall determine.]

[Subject to the credit hereinafter provided, the City acting by and through KUB, shall redeem Bonds maturing on the redemption dates set forth below opposite such maturity date, in aggregate principal amounts equal to the respective dollar amounts set forth below opposite the redemption dates at a price of par plus accrued interest thereon to the date of redemption. DTC, as securities depository for the series of Bonds of which this Bond is one, or any successor Depository for the Bonds, shall determine the interest of each Participant in the Bonds to be redeemed using its procedures generally in use at that time. If DTC, or another securities depository is no longer serving as securities depository for the Bonds, the Bonds to be redeemed within a maturity shall be selected by the Registration Agent by lot or such other random manner as the Registration Agent in its discretion shall select. The dates of redemption and amount of Bonds to be redeemed on said dates are as follows:

<u>Maturity</u>	<u>Redemption Date</u>	<u>Principal Amount of Bonds to be Redeemed</u>
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\*final maturity

At its option, to be exercised on or before the forty-fifth (45th) day next preceding any such redemption date, the City, acting through KUB, may (i) deliver to the Registration Agent for cancellation



Bonds to be redeemed, in any aggregate principal amount desired, and/or (ii) receive credit in respect of its redemption obligation under the mandatory redemption provision for any Bonds to be redeemed which prior to said date have been purchased or redeemed (otherwise than by mandatory redemption) and canceled by the Registration Agent and not theretofore applied as a credit against any redemption obligation under the mandatory redemption provision. Each Bond so delivered or previously purchased or redeemed shall be credited by the Registration Agent at 100% of the principal amount thereof on the obligation of KUB on such payment date and any excess shall be credited on future redemption obligations in chronological order, and the principal amount of the Bonds to be redeemed by operation of the mandatory redemption provision shall be accordingly reduced. KUB shall on or before the forty-fifth (45th) day next preceding each payment date furnish the Registration Agent with its certificate indicating whether or not and to what extent the provisions of clauses (i) and (ii) of this paragraph are to be availed of with respect to such payment and confirm that funds for the balance of the next succeeding prescribed payment will be paid on or before the next succeeding payment date.

Notice of call for redemption, whether optional or mandatory shall be given by the Registration Agent on behalf of the City, but only upon direction of the Board, not fewer than twenty (20) nor more than sixty (60) days prior to the date fixed for redemption by sending an appropriate notice to the registered owners of the Bonds to be redeemed by first-class mail, postage prepaid, at the addresses shown on the Bond registration records of the Registration Agent as of the date of the notice; but neither failure to mail such notice nor any defect in any such notice so mailed shall affect the sufficiency of the proceedings for the redemption of any of the Bonds for which proper notice was given. The notice may state that it is conditioned upon the deposit of moneys in an amount equal to the amount necessary to affect the redemption with the Registration Agent no later than the redemption date ("Conditional Redemption"). From and after any redemption date, all Bonds called for redemption shall cease to bear interest if funds are available at the office of the Registration Agent for the payment thereof and if notice has been duly given as set forth in the Resolution, as hereafter defined. In the case of a Conditional Redemption, the failure of the City or KUB to make funds available in part or in whole on or before the redemption date shall not constitute an event of default, and the Registration Agent shall give immediate notice to the Depository or the affected Bondholders that the redemption did not occur and that the Bonds called for redemption and not so paid remain outstanding.]

The Bonds of the issue of which this Bond is one are issuable only as fully registered Bonds, without coupons, in the denomination of Five Thousand Dollars (\$5,000) or any authorized integral multiple thereof. At the designated trust office of the Registration Agent, in the manner and subject to the limitations, conditions and charges provided in the Resolution, fully registered Bonds may be exchanged for an equal aggregate principal amount of fully registered Bonds of the same maturity, of authorized denominations, and bearing interest at the same rate. The Bonds shall be numbered consecutively from one upwards and will be made eligible for the Book-Entry System of DTC. Except as otherwise provided in this paragraph and the Resolution, as hereinafter defined, the Bonds shall be registered in the name of Cede & Co. as nominee of DTC. The Board may discontinue use of DTC for Bonds at any time upon determination by the Board that the use of DTC is no longer in the best interest of the beneficial owners of the Bonds. Upon such determination, registered ownership of the Bonds may be transferred on the registration books maintained by the Registration Agent, and the Bonds may be delivered in physical form to the following:

- i. any successor of DTC or its nominee;
- ii. any substitute depository to which the Registration Agent does not unreasonably object, upon (a) the resignation of DTC or its successor (or any substitute depository or its successor) from its functions as depository, or (b) a determination by the Board that DTC or its

successor (or any substitute depository or its successor) is no longer able to carry out its functions as depository; or

iii. any person, upon (a) the resignation of DTC or its successor (or substitute depository or its successor) from its functions as depository, or (b) termination by the Board of the use of DTC (or substitute depository or its successor).

In the event that this Bond is no longer held in a Book-Entry System by DTC, this Bond shall be transferable by the registered owner hereof in person or by such owner's attorney duly authorized in writing at the designated trust office of the Registration Agent set forth on the front side hereof, but only in the manner, subject to limitations and upon payment of the charges provided in the Resolution, and upon surrender and cancellation of this Bond. Upon such transfer a new Bond or Bonds of authorized denomination or denominations of the same maturity and interest rate for the same aggregate principal amount will be issued to the transferee in exchange therefor. The person in whose name this Bond is registered shall be deemed and regarded as the absolute owner thereof for all purposes and neither the City, KUB nor the Registration Agent shall be affected by any notice to the contrary whether or not any payments due on the Bond shall be overdue. Bonds, upon surrender to the Registration Agent, may, at the option of the registered owner thereof, be exchanged for an equal aggregate principal amount of the Bonds of the same maturity in authorized denomination or denominations, upon the terms set forth in the Resolution. The Registration Agent shall not be required to transfer or exchange any Bond during the period commencing on a Regular Record Date or Special Record Date and ending on the corresponding interest payment date of such Bond, nor to transfer or exchange any Bond after the notice calling such Bond for redemption has been made, nor during a period following the receipt of instructions from the Board to call such Bond for redemption.

This Bond is one of a total authorized issue aggregating \$12,000,000 and issued by the City for the purpose of providing funds to finance the construction of extensions and improvements to the City's wastewater collection and treatment system (the "System"), including the payment of legal, fiscal and administrative costs incident thereto and costs incident to the issuance of the Bonds, under and in full compliance with the constitution and statutes of the State of Tennessee, including Sections 7-34-101 et seq. and Section 9-21-101 et seq., Tennessee Code Annotated, and pursuant to Resolution No. R-129-90 duly adopted by the City Council of the City on May 15, 1990, as supplemented and amended by Resolution No. R-5-98, Resolution No. R-148-01 and Resolution No. 11-S, and as supplemented by Resolution No. R-\_\_\_\_- 2021 duly adopted by the City Council of the City on \_\_\_\_\_, 2021 and as otherwise supplemented prior to the date hereof (as supplemented and amended, the "Resolution").

This Bond, and interest hereon, are payable solely from and secured by a pledge of the income and the revenues to be derived from the operation of the System, subject to the payment of the reasonable and necessary costs of operating, maintaining, repairing, and insuring the System. The Bonds of the series of which this Bond is one shall enjoy complete parity and equality of lien with the City's outstanding Wastewater System Revenue Bond, Series 2010C (Federally Taxable Build America Bonds), dated December 8, 2010, maturing April 1, 2040, the City's outstanding Wastewater System Revenue Refunding Bonds, Series 2015A, dated May 1, 2015, maturing April 1, 2022 and thereafter, the City's outstanding Wastewater System Revenue Bonds, Series 2015B, dated May 20, 2015, maturing April 1, 2022 and thereafter, the City's outstanding Wastewater System Revenue Bonds, Series 2016, dated August 5, 2016, maturing April 1, 2022 and thereafter, the City's outstanding Wastewater System Revenue Refunding Bonds, Series 2017A, dated April 7, 2017, maturing April 1, 2022 and thereafter, the City's outstanding Wastewater System Revenue Bonds, Series 2017B, dated September 15, 2017, maturing April 1, 2022 and thereafter, the City's outstanding Wastewater System Revenue Bonds, Series 2018, dated September 14, 2018, maturing April 1, 2022 and thereafter, the City's outstanding Wastewater System Revenue Bonds, Series 2019, dated August 20, 2019, maturing April 1, 2022 and

thereafter, the City's outstanding Wastewater System Revenue Refunding Bonds, Series 2020A, dated May 22, 2020, maturing April 1, 2022 and thereafter, the City's outstanding Wastewater System Revenue Bonds, Series 2020B, dated October 30, 2020, maturing April 1, 2022 and thereafter, and the City's outstanding Wastewater System Revenue Refunding Bonds, dated April 19, 2021, maturing April 1, 2022 and thereafter (collectively the "Outstanding Bonds") and any bonds or other obligations hereafter issued on a parity therewith. As provided in the Resolution, the punctual payment of principal of, premium, if any, and interest on the series of Bonds of which this Bond is one, the Outstanding Bonds and any other bonds issued on a parity therewith pursuant to the terms of the Resolution shall be secured equally and ratably by said revenues without priority by reason of series, number or time of sale or delivery. The owner of this Bond shall have no recourse to the power of taxation of the City. The Board has covenanted that it will fix and impose such rates and charges for the services rendered by the System and will collect and account for sufficient revenues to pay promptly the principal of and interest on this Bond and the issue of which it is a part, as each payment becomes due. For a more complete statement of the revenues from which and conditions under which this Bond is payable, a statement of the conditions on which obligations may hereafter be issued on a parity with this Bond, the general covenants and provisions pursuant to which this Bond is issued and the terms upon which the Resolution may be modified, reference is hereby made to the Resolution.

Under existing law, this Bond and the income therefrom are exempt from all present state, county and municipal taxation in Tennessee except (a) Tennessee excise taxes on all or a portion of the interest on this Bond during the period such Bond is held or beneficially owned by any organization or entity, other than a sole proprietorship or general partnership, doing business in the State of Tennessee, and (b) Tennessee franchise taxes by reason of the inclusion of the book value of this Bond in the Tennessee franchise tax base or any organization or entity, other than a sole proprietorship or general partnership, doing business in the State of Tennessee.

It is hereby certified, recited, and declared that all acts, conditions and things required to exist, happen and be performed precedent to and in the issuance of this Bond exist, have happened and have been performed in due time, form and manner as required by law, and that the amount of this Bond, together with all other indebtedness of either the City or KUB, does not exceed any limitation prescribed by the constitution and statutes of the State of Tennessee.

IN WITNESS WHEREOF, the City acting by and through the Board has caused this Bond to be signed by the Chair of the Board by his manual or facsimile signature and attested by the Secretary of the Board by his manual or facsimile signature, all as of the date hereinabove set forth.

CITY OF KNOXVILLE  
by and through the  
KNOXVILLE UTILITIES BOARD

By: \_\_\_\_\_  
Chair

ATTESTED:

\_\_\_\_\_  
Secretary

Transferable and payable at the  
designated trust office of: \_\_\_\_\_

\_\_\_\_\_, Tennessee

Date of Registration: \_\_\_\_\_

This Bond is one of the issue of Bonds issued pursuant to the Resolution hereinabove described.

\_\_\_\_\_  
Registration Agent

By: \_\_\_\_\_  
Authorized Representative

FORM OF ASSIGNMENT

FOR VALUE RECEIVED, the undersigned sells, assigns, and transfers unto \_\_\_\_\_, [Please insert Federal Tax Identification Number or Social Security Number of Assignee \_\_\_\_\_] whose address is \_\_\_\_\_, the within bond of the City of Knoxville, Tennessee, and does hereby irrevocably constitute and appoint \_\_\_\_\_, attorney, to transfer the said bond on the records kept for registration thereof with full power of substitution in the premises.

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

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

Signature guaranteed:

\_\_\_\_\_  
NOTICE: Signature(s) must be guaranteed by a member firm of a Medallion Program acceptable to the Registration Agent.

Section 7. Equality of Lien; Pledge of Net Revenues. The punctual payment of principal of, premium, if any, and interest on the Outstanding Bonds, the Series 2021B Bonds authorized herein, and any Parity Bonds shall be secured equally and ratably by the Net Revenues of the System without priority by reason of series, number or time of sale or execution or delivery, and the Net Revenues of the System are hereby irrevocably pledged to the punctual payment of such principal, premium and interest as the same become due.

Section 8. Applicability of the 1990 Resolution. The Series 2021B Bonds are issued in compliance with the 1990 Resolution so as to be on a parity with the Outstanding Bonds, and, when duly

delivered, the Series 2021B Bonds shall constitute a series of bonds issued under the authority of the 1990 Resolution. All recitals, provisions, covenants and agreements contained in the 1990 Resolution, as supplemented and amended herein (except insofar as any of said recitals, provisions, covenants and agreements necessarily relate exclusively to any series of the Outstanding Bonds) are hereby ratified and confirmed and incorporated herein by reference and, for so long as any of the Series 2021B Bonds shall be Outstanding and unpaid either as to principal or interest, or until discharge and satisfaction of the Series 2021B Bonds as provided in Section 12 hereof, shall be applicable to the Series 2021B Bonds, shall inure to the benefit of owners of the Series 2021B Bonds as if set out in full herein, and shall be fully enforceable by the owner of any Series 2021B Bond.

All references to "holder" or "holders" in the 1990 Resolution shall be deemed to include owners of the Series 2021B Bonds, and all references to "Bonds" in the 1990 Resolution shall be deemed to include the Series 2021B Bonds.

Section 9. Sale of Series 2021B Bonds.

(a) The Series 2021B Bonds or any emission thereof may be sold at negotiated sale to the Underwriter or at public sale as determined by the President and Chief Executive Officer of KUB at a price of not less than 98.00% of par, exclusive of original issue discount, plus accrued interest, if any, provided, however, that no emission of Series 2021B Bonds may be sold at negotiated sale unless the Audit and Finance Committee of the Board has previously approved the sale of such emission at negotiated sale. The sale of any emission of the Series 2021B Bonds to the Underwriter or by public sale shall be binding on the City and KUB, and no further action of the Board with respect thereto shall be required.

(b) The President and Chief Executive Officer of KUB, as the designee of the Board, is further authorized with respect to each emission of Series 2021B Bonds to:

- (1) change the dated date to a date other than the date of issuance;
- (2) specify or change the series designation, including any change to reflect whether the Series 2021B Bonds have been previously issued, or change the designation of the Series 2021B Bonds to a designation other than "Wastewater System Revenue Bonds, Series 2021B";
- (3) change the first interest payment date to a date other than April 1, 2022, provided that such date is not later than twelve months from the dated date of such emission of Series 2021B Bonds;
- (4) establish and adjust the principal and interest payment dates and determine maturity or mandatory redemption amounts of the Series 2021B Bonds or any emission thereof, provided that (A) the total principal amount of all emissions of the Series 2021B Bonds does not exceed the total amount of Series 2021B Bonds authorized herein, (B) the final maturity date of each emission shall be not later than April 1, 2051 and (C) the debt service payable in each fiscal year after the completion of the Project shall be approximately level or decreasing;
- (5) (A) modify or remove the optional redemption provisions contained herein, provided that the premium amount to be paid in connection with any redemption provision shall not exceed two percent (2%) of the principal amount thereof and (B) provide for extraordinary optional redemption provisions;

(6) sell the Series 2021B Bonds, or any emission thereof, or any maturities thereof as term bonds with mandatory redemption requirements as determined by the Board, as it shall deem most advantageous to KUB; and

(7) cause all or a portion of the Series 2021B Bonds to be insured by a bond insurance policy issued by a nationally recognized bond insurance company to achieve the purposes set forth herein and to serve the best interests of KUB and to enter into agreements with such insurance company to the extent not inconsistent with this resolution.

(c) If any emission of Series 2021B Bonds is sold at negotiated sale, the President and Chief Executive Officer of KUB is authorized to execute a Bond Purchase Agreement with respect to such emission of Series 2021B Bonds, providing for the purchase and sale of the Series 2021B Bonds, or any emission thereof. Each Bond Purchase Agreement shall be in substantially the form attached hereto as Exhibit A, with such changes as the President and Chief Executive Officer deems necessary or advisable in connection with the sale of such Series 2021B Bonds, provided any such changes are not inconsistent with the terms of this Section 9. If the Underwriter does not intend to reoffer the Series 2021B Bonds to the public, then the Bond Purchase Agreement shall be conformed to reflect such intention. The form of the Series 2021B Bond set forth in Section 6 hereof shall be conformed to reflect any changes made pursuant to this Section 9.

(d) The President and Chief Executive Officer and the Chief Financial Officer of KUB, or either of them, are authorized to cause the Series 2021B Bonds, in book-entry form (except as otherwise authorized herein), to be authenticated and delivered by the Registration Agent to the purchaser(s), and to execute, publish, and deliver all certificates and documents, including an Official Statement, the Bond Purchase Agreement and closing certificates, as they shall deem necessary in connection with the sale and delivery of each emission of the Bonds.

(e) If the Series 2021B Bonds are sold at public sale, the Series 2021B Bonds shall be awarded by the President and Chief Executive Officer of KUB to the bidder that offers to purchase the Bonds for the lowest true interest cost to KUB.

(f) Each emission of Series 2021B Bonds shall be offered for sale as either Federally Tax-Exempt Bonds or as Federally Taxable Bonds as determined by KUB, in consultation with the Financial Advisor, by taking into account which type of Series 2021B Bond will result in the lowest cost to KUB with respect to such emission of Series 2021B Bonds taking into consideration the Direct Payment Credit projected to be received if such emission of Series 2021B Bonds is issued as Federally Taxable Bonds and such other factors affecting the cost of KUB, including redemption provisions relating to each such emission. KUB will cause to be filed with the transcript of proceedings for any emission of Federally Taxable Bonds, a report of the Financial Advisor as to the factors taken into account by the Financial Advisor in recommending that any emission be issued as Federally Taxable Bonds. If issued as Federally Taxable Bonds, the President and Chief Executive Officer of KUB, on behalf of the City and KUB, is directed to make any election required under applicable law to qualify such emission of Bonds for Direct Payment Credits on each interest payment date. KUB is further authorized to submit any required forms to the Internal Revenue Service or other applicable governmental agency for the purpose of receiving the Direct Payment Credit with respect to each interest payment date, or take such other actions required for receipt of the Direct Payment Credit required by the Internal Revenue Service of the United States Treasury or other governmental agency. KUB is authorized to direct the deposit of the Direct Payment Credit as KUB deems appropriate, and such Direct Payment Credits shall be deemed funds of KUB when paid. All decisions by KUB made pursuant to this subsection shall be binding on the City, and no further action of the Governing Body with respect thereto shall be required. The President and Chief Executive

Officer of KUB, as the designee of the Board, is authorized to take all actions required or authorized by this subsection.

Section 10. Disposition of Series 2021B Bond Proceeds. The proceeds of the sale of the Series 2021B Bonds shall be paid to KUB and used and applied by KUB as follows:

(a) All accrued interest, if any, shall be deposited to the Debt Service Fund created under the 1990 Resolution and used to pay interest on the Series 2021B Bonds on the first interest payment date following delivery of the Series 2021B Bonds; and

(b) The remainder of the proceeds of the sale of the Series 2021B Bonds shall be deposited with a financial institution regulated by the Federal Deposit Insurance Corporation or similar federal agency in a special fund known as the "Wastewater System Construction Fund" (the "Construction Fund") to be kept separate and apart from all other funds of KUB. The funds in the Construction Fund shall be disbursed solely to pay the costs of the Project and issuance of the Series 2021B Bonds, including necessary legal, accounting, and fiscal expenses, printing, engraving, advertising and similar expenses, administrative and clerical costs, rating agency fees, Registration Agent fees, and other necessary miscellaneous expenses incurred in connection with the Project and the issuance and sale of the Series 2021B Bonds. Money in the Construction Fund shall be secured in the manner prescribed by applicable statutes relative to the securing of public or trust funds, if any, or, in the absence of such a statute, by a pledge of readily marketable securities having at all times a market value of not less than the amount in said Construction Fund. Money in the Construction Fund shall be expended only for the purposes authorized by this resolution. Any funds remaining in the Construction Fund after completion of the Project and payment of authorized expenses shall be used to retire Series 2021B Bonds on the earliest possible date. Moneys in the Construction Fund shall be invested as directed by the Chief Financial Officer in such investments as shall be permitted by applicable law. All income derived from such investments shall be deposited to the Construction Fund.

Section 11. Discharge and Satisfaction of Series 2021B Bonds. The Series 2021B Bonds may be defeased, discharged and satisfied at any time as provided in Article XII of the 1990 Resolution.

Section 12. Federal Tax Matters. The City and KUB recognize that the purchasers and owners of the Series 2021B Bonds that are intended to be Federally Tax-Exempt Bonds will have accepted them on, and paid therefor a price that reflects, the understanding that interest thereon will not be included in gross income for purposes of federal income taxation under laws in force on the date of delivery of the Series 2021B Bonds. In this connection, KUB, on behalf of the City, agrees that it shall take no action which may render the interest on any of the Series 2021B Bonds that are intended to be Federally Tax-Exempt Bonds includable in gross income for purposes of federal income taxation. It is the reasonable expectation of the City and KUB that the proceeds of the Series 2021B Bonds that are intended to be Federally Tax-Exempt Bonds will not be used in a manner which will cause the Series 2021B Bonds to be "arbitrage bonds" within the meaning of Section 148 of the Code, and to this end the said proceeds of the Series 2021B Bonds and other related funds established for the purposes herein set out, shall be used and spent expeditiously for the purposes described herein. In the event Section 148(f) of the Code shall require the payment of any investment proceeds of the Series 2021B Bonds that are intended to be Federally Tax-Exempt Bonds to the United States government, KUB will make such payments as and when required by said Section 148(f) and will take such other actions as shall be necessary or permitted to prevent the interest on the Series 2021B Bonds that are intended to be Federally Tax-Exempt Bonds from becoming taxable. The Chair of the Board, the Secretary of the Board, the President and Chief Executive Officer of KUB and Chief Financial Officer of KUB, or any of them, are authorized and directed to make such certifications in this regard in connection with the sale of the Series 2021B Bonds that are intended

to be Federally Tax-Exempt Bonds as any or all shall deem appropriate, and such certifications shall constitute a representation and certification of the City and KUB.

Section 13. Official Statement. The President and Chief Executive Officer of KUB, or his designee, is hereby authorized and directed to provide for the preparation and distribution of a Preliminary Official Statement describing the Series 2021B Bonds. After the Series 2021B Bonds have been awarded, the President and Chief Executive Officer of KUB, or his designee, shall make such completions, omissions, insertions and changes in the Preliminary Official Statement not inconsistent with this resolution as are necessary or desirable to complete it as a final Official Statement for purposes of Rule 15c2-12(e)(3) of the Securities and Exchange Commission. The President and Chief Executive Officer of KUB, or his designee, shall arrange for the delivery to the purchaser of the Series 2021B Bonds of a reasonable number of copies of the Official Statement within seven business days after the Series 2021B Bonds have been awarded for subsequent delivery by the purchaser, to each potential investor requesting a copy of the Official Statement and to each person to whom such purchaser and members of his group initially sell the Series 2021B Bonds.

The President and Chief Executive Officer of KUB, or his designee, is authorized, on behalf of the Board, to deem the Preliminary Official Statement and the Official Statement in final form, each to be final as of its date within the meaning of Rule 15c2-12(b)(1), except for the omission in the Preliminary Official Statement of certain pricing and other information allowed to be omitted pursuant to such Rule 15c2-12(b)(1). The distribution of the Preliminary Official Statement and the Official Statement in final form shall be conclusive evidence that each has been deemed in final form as of its date by the Board except for the omission in the Preliminary Official Statement of such pricing and other information.

Section 14. Continuing Disclosure. The City hereby covenants and agrees that KUB will provide annual financial information and material event notices for the Series 2021B Bonds as required by Rule 15c2-12 of the Securities and Exchange Commission. The Chief Financial Officer of KUB is authorized to execute at the closing of the sale of the Series 2021B Bonds, an agreement for the benefit of and enforceable by the owners of the Series 2021B Bonds specifying the details of the financial information and material event notices to be provided and its obligations relating thereto. Failure of KUB to comply with the undertaking herein described and to be detailed in said closing agreement, shall not be a default hereunder, but any such failure shall entitle the owner or owners of any of the Bonds to take such actions and to initiate such proceedings as shall be necessary and appropriate to cause KUB to comply with its undertaking as set forth herein and in said agreement, including the remedies of mandamus and specific performance.

Section 15. Separability. If any section, paragraph or provision of this resolution shall be held to be invalid or unenforceable for any reason, the invalidity or unenforceability of such section, paragraph or provision shall not affect any of the remaining provisions of this resolution.

Section 16. Repeal of Conflicting Resolutions and Effective Date. All other resolutions and orders, or parts thereof, in conflict with the provisions of this resolution, are, to the extent of such conflict, hereby repealed and this resolution shall be in immediate effect from and after its adoption.



Adopted and approved this \_\_\_\_ day of \_\_\_\_\_, 2021.

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Mayor

ATTEST:

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City Recorder

STATE OF TENNESSEE     )  
  )  
COUNTY OF KNOX         )

I, Will Johnson, hereby certify that I am the duly qualified and acting City Recorder of the City of Knoxville, Tennessee, and as such official I further certify that attached hereto is a copy of excerpts from the minutes of a regular meeting of the governing body of the City Council held on \_\_\_\_\_, 2021; that these minutes were promptly and fully recorded and are open to public inspection; that I have compared said copy with the original minute record of said meeting in my official custody; and that said copy is a true, correct and complete transcript from said original minute record insofar as said original records relate to an amount not to exceed \$12,000,000 Wastewater System Revenue Bonds, Series 2021B.

WITNESS my official signature and seal of the City of Knoxville, Tennessee, this \_\_\_\_ day of \_\_\_\_\_, 2021.

\_\_\_\_\_  
City Recorder  
(seal)

**EXHIBIT A**

**\$12,000,000  
CITY OF KNOXVILLE, TENNESSEE  
ACTING ON BEHALF OF KNOXVILLE UTILITIES BOARD  
WASTEWATER SYSTEM REVENUE BONDS, SERIES 2021B**

**BOND PURCHASE AGREEMENT**

\_\_\_\_\_, 2021

Knoxville Utilities Board  
445 South Gay Street  
Knoxville, Tennessee 37902

Ladies and Gentlemen:

The undersigned (the "Underwriter") offers to enter into this agreement with Knoxville Utilities Board ("KUB") which, upon your acceptance of this offer, will be binding upon you and upon us.

This offer is made subject to your acceptance of this agreement on or before 5:00 p.m., Eastern Standard Time, on \_\_\_\_\_, 2021.

1. Purchase Price.

Upon the terms and conditions and upon the basis of the respective representations, warranties and covenants set forth herein, the Underwriter hereby agrees to purchase from KUB, and KUB hereby agrees to sell to the Underwriter, all (but not less than all) of \$12,000,000 aggregate principal amount of KUB's Wastewater System Revenue Bonds, Series 2021B (the "Bonds"). The purchase price is \$ \_\_\_\_\_ plus accrued interest and shall be paid in accordance with paragraph 6 hereof. The purchase price is equal to the par amount of the Bonds less \$ \_\_\_\_\_ original issue discount, less \$ \_\_\_\_\_ underwriter's discount and plus accrued interest. The Bonds are to be issued under and pursuant to, and are to be secured by the Resolution (the "Bond Resolution") adopted on \_\_\_\_\_, 2021, by the City Council of the City of Knoxville (the "City") at the request of KUB. The Bonds shall mature on the dates and shall bear interest at the rates all as described in the Official Statement referred to in Section 3 hereof. The maturities, rates and discount at which the Bonds are being sold are more fully described on **Schedule I** attached hereto.

The Bonds are being issued to provide funds to finance the cost of extensions and improvements to the wastewater collection and treatment system operated by KUB on behalf of the City (the "System"), including the payment of legal, fiscal and administrative costs incident thereto and incident to the issuance and sale of the Bonds.

2. Public Offering.

The Underwriter intends to make an initial bona fide public offering of all of the Bonds at not in excess of the public offering prices set forth on the cover of the Official Statement and may subsequently change such offering price without any requirement of prior notice. The Underwriter may offer and sell Bonds to certain dealers (including dealers depositing bonds into investment trusts) and others at prices lower than the public offering prices stated on the cover of the Official Statement. The Underwriter reserves the right (i) to over-allot or effect transactions that stabilize or maintain the market prices of the Bonds at levels above those which might otherwise prevail in the open market; and (ii) to discontinue such stabilizing, if commenced at any time without prior notice.

3. Official Statement.

(a) KUB has provided the Underwriter with information that constitutes a "deemed final" official statement for purposes of Rule 15c2-12 under the Securities Exchange Act of 1934 ("Rule 15c2-12"). Concurrently with KUB's acceptance of this Bond Purchase Agreement, KUB shall deliver or cause to be delivered to the Underwriter two copies of the Official Statement (as hereinafter defined) relating to the Bonds dated the date hereof substantially in the same form as the Preliminary Official Statement with only such changes as shall have been accepted by the Underwriter.

(b) Within seven (7) business days from the date hereof and within sufficient time to accompany any confirmation requesting payment from any customers of the Underwriter, KUB shall deliver to the Underwriter copies of the Official Statement of KUB, dated the date hereof, relating to the Bonds, in sufficient quantity as may reasonably be requested by the Underwriter in order to comply with Rule 15c2-12 and any applicable rules of the Municipal Securities Rulemaking Board, in substantially the form approved by KUB (which, together with the cover page, and all exhibits, appendices, and statements included therein or attached thereto and any amendments and supplements that may be authorized for use with respect to the Bonds is herein called the "Official Statement"), executed on behalf of KUB by a duly authorized officer of KUB. You hereby authorize and approve the Official Statement and other pertinent documents referred to in Section 6 hereof to be lawfully used in connection with the offering and sale of the Bonds. You also acknowledge and ratify the use by the Underwriter, prior to the date hereof, of the Preliminary Official Statement in connection with a public offering of the Bonds.

(c) If, prior to the Closing (as defined in Section 5 below) or within twenty-five (25) days subsequent to the end of the underwriting period as such term is used for purposes of Rule 15c2-12, any event shall occur with respect to KUB or KUB shall receive notice of the occurrence of any other event that might or would cause the information contained in the Official Statement to contain any untrue statement of a material fact or to omit to state a material fact necessary in order to make the statements made therein, in the light of the circumstances under which they were made, not misleading, KUB shall so notify the Underwriter. KUB agrees to amend or supplement the Official Statement whenever requested by the Underwriter when in the reasonable judgment of the Underwriter such amendment or supplementation is required and to furnish the Underwriter with sufficient quantities of such amendment or supplement in order to permit the Underwriter to comply with Rule 15c2-12.

4. Representations and Warranties.

KUB hereby represents and warrants to the Underwriter that:

(a) KUB is duly existing pursuant to the Charter of the City and is authorized by such Charter to operate and manage the System. KUB has duly authorized all necessary action to be taken by it for: (i) the issuance and sale of the Bonds upon the terms set forth herein and in the Official

Statement; (ii) the approval of the Official Statement and the signing of the Official Statement by a duly authorized officer; (iii) the execution, delivery and receipt of this Bond Purchase Agreement, the Bonds and any and all such other agreements and documents as may be required to be executed, delivered and received by KUB in order to carry out, give effect to, and consummate the transactions contemplated hereby, by the Bonds, the Official Statement and the Bond Resolution;

(b) When executed by the respective parties thereto, this Bond Purchase Agreement will constitute a legal, valid and binding obligation of KUB enforceable in accordance with its terms;

(c) The information and statements contained in the Preliminary Official Statement, as of its date and as of the date hereof, did not and do not contain any untrue statement of a material fact or omit to state any material fact which was necessary in order to make such information and statements, in the light of the circumstances under which they were made, not misleading;

(d) The information and statements contained in the Official Statement, as of its date and as of the Closing, are and will be correct and complete in all material respects and do not and will not contain any untrue statement of a material fact or omit to state any material fact which is necessary in order to make such information and statements, in the light of the circumstances under which they were made, not misleading;

(e) KUB has complied, and will at the Closing be in compliance, in all respects with the obligations on its part contained in the Bond Resolution and the laws of the State of Tennessee (the "State"), including the Act;

(f) The City has duly adopted the Bond Resolution, and the City and KUB have (a) duly authorized and approved the distribution of the Preliminary Official Statement, (b) duly authorized and approved the execution and delivery of the Official Statement, (c) duly authorized and approved the execution and delivery of, and the performance by KUB of the obligations on its part contained in, the Bonds, the Bond Resolution and this Bond Purchase Agreement, and (d) duly authorized and approved the consummation by it of all other transactions contemplated by this Bond Purchase Agreement and the Official Statement;

(g) KUB is not in breach of or default under any applicable law or administrative regulation of the State or the United States in any manner related to or affecting the transactions contemplated hereby or in breach of or default under any applicable judgment or decree or any loan agreement, note, resolution, ordinance, agreement or other instrument to which KUB is a party or to which it or any of its property is otherwise subject; and the execution and delivery of this Bond Purchase Agreement, the Bonds and the adoption of the Bond Resolution, and compliance with the provisions of each thereof, will not conflict with or constitute a breach of or default under any law, administrative regulation, judgment, decree, loan agreement, note, resolution, ordinance, agreement or other instrument to which KUB is a party or to which it or any of its property is otherwise subject;

(h) Except as may be required under the securities or "blue sky" laws of any state, all approvals, consents, authorizations and orders of, filings with or certifications by any governmental authority, board, agency or commission having jurisdiction, which would constitute a condition precedent to the performance by KUB of its obligations hereunder and under the Bond Resolution and the Bonds, have been obtained;

(i) There is no action, suit, proceeding, inquiry or investigation, at law or in equity, before or by any court, public board or body, pending or, to the knowledge of KUB, threatened against KUB or others (a) affecting KUB or the corporate existence of KUB or the titles of its officers to their

respective offices, (b) seeking to prohibit, restrain or enjoin the sale, issuance or delivery of the Bonds or the collection of Net Revenues pledged to pay the principal of and interest on the Bonds, or the pledge thereof, (c) in any way contesting or affecting the transactions contemplated hereby or by the Official Statement or by the validity or enforceability of the Bonds, the Bond Resolution or this Bond Purchase Agreement, (d) contesting in any way the completeness or accuracy of the Preliminary Official Statement or the Official Statement, or (e) contesting the powers or authority of KUB for the issuance of the Bonds, the adoption of the Bond Resolution or the execution and delivery of this Bond Purchase Agreement;

(j) KUB will not take or omit to take any action that will in any way cause the proceeds from the sale of the Bonds and other moneys of KUB to be transferred on the date of issuance of the Bonds to be applied or result in such proceeds and other moneys being applied in a manner other than as provided in or permitted by the Bond Resolution and consistent with the utilization described in the Official Statement;

(k) KUB agrees reasonably to cooperate with the Underwriter and its counsel in any endeavor to qualify the Bonds for offering and sale under the securities or "blue sky" laws of such jurisdictions of the United States as the Underwriter may request. KUB hereby consents to the use of the Official Statement and the Bond Resolution by the Underwriter in obtaining any qualification required;

(l) If at any time from the date of this Bond Purchase Agreement through 25 days following the "end of the underwriting period" (as defined in Rule 15c2-12 described below) any event shall occur that might or would cause the Official Statement to contain any untrue statement of a material fact or to omit to state any material fact necessary to make the statements therein, in light of the circumstances under which they were made, not misleading, KUB shall notify the Underwriter and if, in the opinion of the Underwriter, such event requires the preparation and publication of a supplement or amendment to the Official Statement, KUB will supplement or amend the Official Statement in a form and in a manner approved by the Underwriter. If the Official Statement is so supplemented or amended prior to the Closing, such approval by the Underwriter of a supplement or amendment to the Official Statement shall not preclude the Underwriter from thereafter terminating this Bond Purchase Agreement, and if the Official Statement is so amended or supplemented subsequent to the date hereof and prior to the Closing, the Underwriter may terminate this Bond Purchase Agreement by notification to KUB at any time prior to the Closing if, in the judgment of the Underwriter, such amendment or supplement has or will have a material adverse effect on the marketability of the Bonds;

(m) KUB has duly authorized and approved the execution and delivery of this Bond Purchase Agreement and the performance by KUB of the obligations on its part contained herein;

(n) KUB is not, nor has it at any time, been in default in the payment of principal of or interest on any obligation issued or guaranteed by KUB;

(o) Any certificate signed by an authorized officer of KUB and delivered to the Underwriter at or prior to the Closing shall be deemed a representation and warranty by KUB in connection with this Bond Purchase Agreement to the Underwriter as to the statements made therein upon which the Underwriter shall be entitled to rely. KUB covenants that between the date hereof and the Closing, it will not take any action that will cause the representations and warranties made herein to be untrue as of the Closing;

(p) The Bonds, when issued, authenticated and delivered in accordance with the Bond Resolution and sold to the Underwriter as provided herein, will be validly issued and outstanding special obligations of KUB entitled to the benefits of the Bond Resolution;

(q) KUB has lawful authority to operate the System, to consummate the transactions contemplated by the Official Statement and collect revenues, fees and other charges in connection with the System and through its Board of Commissioners, to fix the rates, fees and other charges with respect to the System; and

(r) KUB hereby covenants and agrees to enter into a written agreement or contract, constituting an undertaking (the "Undertaking") to provide ongoing disclosure about KUB, for the benefit of the beneficial owners of the Bonds on or before the date of delivery of the Bonds as required under paragraph (b)(5) of Rule 15c2-12. The Undertaking shall be as described in the Preliminary Official Statement, with such changes as may be agreed in writing by the Underwriter. KUB represents that it has complied in all respects with its obligations to provide continuing disclosure of certain information as described in that certain Continuing Disclosure Certificate entered into in connection with the issuance of the Bonds.

5. Delivery of, and Payment for, the Bonds.

At 10:00 a.m. on or about \_\_\_\_\_, 2021, or at such other time or date as shall have been mutually agreed upon by KUB and the Underwriter, KUB will deliver, or cause to be delivered, to the Underwriter the other documents hereinafter mentioned and, subject to the conditions contained herein, the Underwriter will accept such delivery and pay the purchase price of the Bonds plus accrued interest payable to the order of KUB, in federal funds or other immediately available funds by delivering to KUB such funds by wire transfer to KUB or its designated agent except that physical delivery of the Bonds shall be made through the facilities of the Depository Trust Company.

Payment for the Bonds shall be confirmed and delivery of the documents as aforesaid shall be made at the offices of KUB, or such other place as may be agreed upon by the Underwriter and KUB. Such payment and delivery is herein called the "Closing." The Bonds will be delivered as fully registered bonds in such names and in such denominations as shall be designated in writing by the Underwriter to KUB at Closing.

6. Certain Conditions to Underwriter's Obligations.

The obligations of the Underwriter hereunder shall be subject to (i) the performance by KUB of its obligations to be performed hereunder, (ii) the accuracy in all material respects of the representations and warranties of KUB herein as of the date hereof and as of the date of the Closing, and (iii) to the following conditions:

(a) At the time of Closing, (i) the Bond Resolution shall be in full force and effect and shall not have been amended, modified or supplemented except as may have been agreed to in writing by the Underwriter, (ii) the proceeds of the sale of the Bonds shall be applied as described in the Official Statement, and (iii) KUB shall have duly adopted and there shall be in full force and effect such other resolutions as, in the opinion of Bass, Berry & Sims PLC, Knoxville, Tennessee ("Bond Counsel"), shall be necessary in connection with the transactions contemplated hereby;

(b) At or prior to the Closing, the Underwriter shall have received an executed copy of each of the following documents:

(1) the approving opinion, dated the date of the Closing, of Bond Counsel addressed to KUB and the Underwriter, relating to, among other things, the validity of the Bonds [and the exclusion from gross income of the interest on the Bonds for federal and State of Tennessee income tax purposes,] in substantially the form set forth as Appendix \_ to the Official Statement;

(2) a supplemental opinion, dated the date of the Closing, of Bond Counsel addressed to the Underwriter in substantially the form of Exhibit A hereto;

(3) an opinion, dated the date of the Closing, of Hodges, Doughty & Carson, Knoxville, Tennessee, counsel to KUB, addressed to KUB, Bond Counsel and the Underwriter in substantially the form of Exhibit B hereto;

(4) a certificate of KUB, dated the date of the Closing and signed by a duly authorized officer of KUB and in form and substance reasonably satisfactory to the Underwriter, to the effect that (i) since the execution of the Bond Purchase Agreement no material and adverse change has occurred in the financial position of the System or results of operations of the System; (ii) KUB has not incurred any material liabilities secured by the Net Revenues of the System other than in the ordinary course of business or as set forth in or contemplated by the Official Statement; and (iii) no event affecting KUB has occurred since the date of the Official Statement which should be disclosed in the Official Statement for the purpose for which it is to be used or which is necessary to be disclosed therein in order to make the statements and information therein not misleading as of the date of Closing;

(5) the Official Statement executed on behalf of KUB by a duly authorized officer thereof;

(6) the Bond Resolution and the Bonds;

(7) a certificate of a duly authorized officer of KUB, satisfactory to the Underwriter, dated the date of Closing, stating that such officer is charged, either alone or with others, with the responsibility for issuing the Bonds; setting forth, in the manner permitted by Section 148 of the Internal Revenue Code of 1986, as amended (the "Code"), the reasonable expectations of KUB as of such date as to the use of proceeds of the Bonds and of any other funds of KUB expected to be used to pay principal or interest on the Bonds and the facts and estimates on which such expectations are based; and stating that, to the best of the knowledge and belief of the certifying officer, KUB's expectations are reasonable;

(8) evidence indicating a rating on the Bonds of "\_\_\_" by [rating agency];

(9) other certificates of KUB listed on a Closing Memorandum to be approved by counsel to KUB, Bond Counsel and counsel to the Underwriter, including any certificates or representations required in order for Bond Counsel to deliver the opinion referred to in Paragraph 6(b)(1) of this Bond Purchase Agreement; and such additional legal opinions, certificates, proceedings, instruments and other documents as the counsel to the Underwriter or Bond Counsel may reasonably request to evidence compliance by KUB with legal requirements, the truth and accuracy, as of the time of Closing, of the representations of KUB contained herein and the due performance or satisfaction by KUB at or prior to such time of all agreements then to be performed and all conditions then to be satisfied by KUB.

All such opinions, certificates, letters, agreements and documents will be in compliance with the provisions hereof only if they are satisfactory in form and substance to the Underwriter and counsel to the Underwriter. KUB will furnish the Underwriter with such conformed copies or photocopies of such opinions, certificates, letters, agreements and documents as the Underwriter may reasonably request.



(c) The Underwriter shall have received within seven (7) business days from the date hereof and within sufficient time to accompany any confirmation requesting payment from any customers of the Underwriter, the Official Statement in sufficient quantity as may be reasonably requested by the Underwriter in order to comply with Rule 15(c) 2-12.

7. Termination.

The Underwriter shall have the right to cancel its obligation to purchase the Bonds if (i) between the date hereof and the Closing, legislation shall be enacted or recommended to the Congress or otherwise endorsed for passage (by press release, other form of notice or otherwise) by the President of the United States, the Treasury Department of the United States, the Internal Revenue Service or the Chairman or ranking minority member of the Committee on Finance of the United States Senate or the Committee on Ways and Means of the United States House of Representatives or favorably reported for passage to either House of the Congress by any committee of such House to which such legislation has been referred for consideration, or a bill to amend the Internal Revenue Code (which, if enacted, would take effect in whole or in part prior to the Closing) shall be filed in either house, or recommended for passage by the Congress by any joint or conference committee thereof, or a decision by a court of the United States or the United States Tax Court shall be rendered, or a ruling, regulation or statement by or on behalf of the Treasury Department of the United States, the Internal Revenue Service or other governmental agency shall be made or proposed to be made, with respect to the federal taxation upon interest on obligations of the general character of the Bonds, or other action or events shall have transpired which may have the purpose or effect, directly or indirectly of changing the federal income tax consequences of any of the transactions contemplated in connection herewith, including the tax-exempt status of KUB and, in the opinion of the Underwriter, materially adversely affects the market price of the Bonds, or the market price generally of obligations of the general character of the Bonds, or (ii) there shall exist any event which in the Underwriter's judgment either (a) makes untrue or incorrect in any material respect any statement or information contained in the Official Statement or (b) is not reflected in the Official Statement but should be reflected therein in order to make the statements and information contained therein not misleading in any material respect, or (iii) there shall have occurred any outbreak of hostilities or any national or international calamity or crisis including financial crisis, or a financial crisis or a default with respect to the debt obligations of, or the institution of proceedings under the federal or the state bankruptcy laws by or against the State of Tennessee or any subdivision, agency or instrumentality of such State, the effect of which on the financial markets of the United States being such as, in the reasonable judgment of the Underwriter, would make it impracticable for the Underwriter to market the Bonds or to enforce contracts for the sale of the Bonds, or (iv) there shall be in force a general suspension of trading on the New York Stock Exchange, or (v) a general banking moratorium shall have been declared by either federal, Tennessee or New York authorities, or (vi) there shall have occurred since the date of this Bond Purchase Agreement any material adverse change in the financial position of the System, except for changes which the Official Statement discloses have occurred or may occur, or (vii) legislation shall be enacted or any action shall be taken by the Securities and Exchange Commission which, in the opinion of counsel for the Underwriter, has the effect of requiring the contemplated distribution of the Bonds to be registered under the Securities Act of 1933, as amended, or the Bond Resolution or any other document executed in connection with the transactions contemplated hereof to be qualified under the Trust Indenture Act of 1939, as amended, or (viii) a stop order, ruling, regulation or official statement by or on behalf of the Securities and Exchange Commission shall be issued or made to the effect that the issuance, offering or sale of the Bonds, or of obligations of the general character of the Bonds as contemplated hereby, or the offering of any other obligation which may be represented by the Bonds is in violation of any provision of the Securities Act of 1933, as amended, the Securities Exchange Act of 1934, as amended, or the Trust Indenture Act of 1939, as amended, or (ix) any state blue sky or securities commission shall have withheld registration, exemption or clearance of the offering, and in the reasonable judgment of the Underwriter the market for the Bonds is materially affected thereby.

If KUB shall be unable to satisfy any of the conditions to the obligations of the Underwriter contained in this Bond Purchase Agreement and such condition is not waived by the Underwriter, or if the obligations of the Underwriter to purchase and accept delivery of the Bonds shall be terminated or canceled for any reason permitted by this Bond Purchase Agreement, this Bond Purchase Agreement shall terminate and neither the Underwriter nor KUB shall be under further obligation hereunder; except that the respective obligations to pay expenses, as provided in Section 10 hereof, shall continue in full force and effect.

8. Particular Covenants.

KUB covenants and agrees with the Underwriter as follows:

(a) KUB shall use its best efforts to furnish or cause to be furnished to the Underwriter, without charge, as many copies of the Official Statement as the Underwriter may reasonably request;

(b) Before revising, amending or supplementing the Official Statement, KUB shall furnish a copy of the revised Official Statement or such amendment or supplement to the Underwriter. If in the opinion of KUB and the Underwriter a supplement or amendment to the Official Statement is required, KUB will supplement or amend the Official Statement in a form and in a manner approved by the Underwriter and its counsel.

9. Survival of Representations.

All representations, warranties and agreements of KUB hereunder shall remain operative and in full force and effect, regardless of any investigation made by or on behalf of the Underwriter and shall survive the delivery of the Bonds.

10. Payment of Expenses.

Whether or not the Bonds are sold to the Underwriter by KUB, KUB shall pay, but only out of the proceeds of the sale of the Bonds or other funds made available by KUB, any expenses incident to the performance of its obligations hereunder, including but not limited to: (i) the cost of the preparation and printing of the Official Statement and any supplements thereto, together with a number of copies which the Underwriter deems reasonable; (ii) the cost of the preparation and printing of the definitive Bonds; (iii) the rating agency fees; and (iv) the fees and disbursements of Counsel to KUB and Bond Counsel and any other experts or consultants retained by KUB.

Whether or not the Bonds are sold to the Underwriter, the Underwriter shall pay (i) all advertising expenses in connection with the public offering of the Bonds; (ii) the cost of preparing and printing the blue sky memorandum, if any, and filing fees in connection with the aforesaid blue sky memorandum other than the costs of preparation of the Preliminary Official Statement and the Official Statement; and (iii) all other expenses incurred by the Underwriter in connection with its public offering and distribution of the Bonds, including the fees and expenses of the Underwriter's counsel.

11. No Advisory or Fiduciary Role.

KUB acknowledges and agrees that (i) the purchase and sale of the Bonds pursuant to this Bond Purchase Agreement is an arm's-length commercial transaction between KUB and the Underwriter, (ii) in connection therewith and with the discussions, undertakings and procedures leading up to the consummation of such transaction, the Underwriter is and has been acting solely as principal and

is not acting as the agent, advisor or fiduciary of KUB, (iii) the Underwriter has not assumed an advisory or fiduciary responsibility in favor of KUB with respect to the offering contemplated hereby or the discussions, undertakings and procedures leading thereto (irrespective of whether the Underwriter, or any affiliates of the Underwriter, has provided other services or are currently providing other services to KUB on other matters) and the Underwriter has no obligation to KUB with respect to the offering contemplated hereby except the obligations expressly set forth in this Bond Purchase Agreement, (iv) the Underwriter has financial and other interests that differ from those of KUB and (v) KUB has consulted its own legal, financial and other advisors to the extent it has deemed appropriate.

KUB and the Underwriter represent and warrant that no finder or other agent has been employed by either KUB or the Underwriter in connection with this transaction.

12. Notices.

Any notice or other communication to be given to KUB under this Bond Purchase Agreement may be given by delivering the same in writing at its address set forth above, and any notice or other communication to be given to the Underwriter under this Bond Purchase Agreement may be given by delivering the same in writing to \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

13. Parties.

This Bond Purchase Agreement is made solely for the benefit of KUB and the Underwriter (including the successors or assigns of the Underwriter) and no other person shall acquire or have any right hereunder or by virtue hereof.

14. Governing Law.

This Bond Purchase Agreement shall be governed by and construed in accordance with the laws of the State of Tennessee.

15. General.

This Bond Purchase Agreement may be executed in several counterparts, each of which shall be regarded as an original and all of which will constitute one and the same instrument. The section headings of this Bond Purchase Agreement are for convenience of reference only and shall not affect its interpretation. This Bond Purchase Agreement shall become effective upon your acceptance hereof.

Very truly yours,

\_\_\_\_\_

By: \_\_\_\_\_

Its: \_\_\_\_\_

Accepted and agreed to as of  
the date first above written:

KNOXVILLE UTILITIES BOARD

By: \_\_\_\_\_  
President and Chief Executive Officer

**EXHIBIT A TO BOND PURCHASE AGREEMENT**

**[LETTERHEAD OF BASS BERRY & SIMS PLC]**

[Closing Date]

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Ladies and Gentlemen:

This opinion is being rendered to you pursuant to Paragraph 6(b)(2) of the Bond Purchase Agreement, dated \_\_\_\_\_, 2021 (the "Bond Purchase Agreement"), between \_\_\_\_\_ (the "Underwriter"), and Knoxville Utilities Board ("KUB"), relating to the sale by KUB of its Wastewater System Revenue Bonds, Series 2021B, in the aggregate principal amount of \$12,000,000 (the "Bonds"). Terms which are used herein and not otherwise defined shall have the meanings assigned to them in the Bond Purchase Agreement.

Of even date herewith, we have delivered our approving opinion in connection with the issuance of the Bonds. In our capacity as Bond Counsel, we have reviewed a record of proceedings in connection with the issuance of the Bonds and we have participated in conferences from time to time with counsel to KUB, representatives of the Underwriter and counsel to the Underwriter, relative to the Official Statement, dated \_\_\_\_\_, 2021, relating to the Bonds, and the related documents described below. We have also examined such other agreements, documents and certificates, and have made such investigations of law, as we have deemed necessary or appropriate in rendering the opinions set forth below.

Based on the foregoing, we are of the opinion that, as of the date hereof:

1. The offer and sale of the Bonds to the public do not require any registration under the Securities Act of 1933, as amended, and, in connection therewith, the Bond Resolution does not need to be qualified under the Trust Indenture Act of 1939, as amended.

2. The statements contained in the Official Statement under the captions "Introduction" to the extent the narrative thereunder purports to describe the terms of the Bonds and the legal authority by which they are issued, "The Bonds," and in Appendix A to the Official Statement, insofar as such statements purport to summarize certain provisions of the Bonds and the Bond Resolution, fairly summarize such provisions. The statements contained in the Official Statement under the caption "Opinion of Bond Counsel" are correct as to matters of law.

This opinion may be relied upon only by the Underwriter and by other persons to whom written permission to rely hereon is granted by us.

Very truly yours,

**EXHIBIT B TO BOND PURCHASE AGREEMENT**

\_\_\_\_\_, 2021

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Bass Berry & Sims PLC  
900 South Gay Street, Suite 1700  
Knoxville, Tennessee 37902

**Re: City of Knoxville, Tennessee acting on behalf of the Knoxville Utilities Board \$12,000,000 Wastewater System Revenue Bonds, Series 2021B**

Ladies and Gentlemen:

You have requested that the undersigned, General Counsel to the Knoxville Utilities Board of the City of Knoxville, Tennessee ("KUB"), render this opinion in connection with the execution, delivery and sale of the captioned bonds (the "Bonds"), the proceeds of which will be used to finance extensions and improvements to the wastewater collection and treatment system described herein.

It is our opinion that KUB is duly established and validly existing pursuant to the Charter of the City of Knoxville, Tennessee (the "Municipality"), and, pursuant to said Charter, the wastewater system of the Municipality (the "System") is under the jurisdiction, control and management of KUB.

The undersigned does hereby certify that no litigation of any nature is now pending or, to our knowledge, threatened

- (1) seeking to restrain or enjoin the issuance, sale, execution or delivery of the Bonds;
- (2) seeking to restrain or enjoin the charging of sufficient rates to pay the cost of operating, maintaining, repairing and insuring the System and to pay principal of and interest on the Bonds and all outstanding obligations payable from the revenues of the System;
- (3) in any manner questioning the proceedings or authority pursuant to which the Bonds are authorized or issued or such rates are charged;
- (4) in any manner questioning or relating to the validity of the Bonds;
- (5) contesting in any way the completeness or accuracy of the Official Statement prepared and distributed in connection with the sale of the Bonds;
- (6) in any way contesting the corporate existence or boundaries of the Municipality, except for various pending actions challenging past or present annexation efforts of the Municipality, which will have no material adverse effect on the revenues of the System;
- (7) contesting the title of the present officers of KUB to their respective offices; or

(8) contesting the powers of KUB or the authority of KUB with respect to the Bonds, or proceedings authorizing the Bonds, or any act to be done or document or certificate to be executed or delivered in connection with the issuance and delivery of the Bonds.

Neither the voters of the Municipality nor its governing body nor the Board of Commissioners of KUB have approved any special, local or private act or legislation passed by the General Assembly of the State of Tennessee at its most recent session or any amendments to the Charter of the Municipality affecting the power of the Municipality to issue the Bonds or pay the principal of, premium, if any, and interest on the Bonds when due or affecting the power of the Board of Commissioners of KUB to manage and control the System.

I hereby certify that \_\_\_\_\_ and \_\_\_\_\_ are the duly qualified, appointed and acting Chair and Secretary, respectively, of the Board of Commissioners of KUB with full power to act as such officers on behalf of KUB in connection with the execution and delivery of the Bonds.

Yours truly,

30473804.2

**RESOLUTION NO. 1436****A Resolution Making and Fixing the Annual Budget Appropriations of the Knoxville Utilities Board from the Funds of the Electric Division, the Gas Division, the Water Division, and the Wastewater Division for the Fiscal Year Beginning July 1, 2021, Providing for Expenditures Paid for the Period Beginning July 1, 2021, and Ending June 30, 2022**

**Whereas**, Section 1109 of the Charter of the City of Knoxville provides that “No money shall be drawn from the treasury of the system nor shall any obligation for the expenditure of money be incurred except in pursuance of appropriations made by the board”; and

**Whereas**, Article IX.B.2. of the Knoxville Utilities Board of Commissioners (the “Board”) Bylaws provides that: “The Board shall be furnished the proposed budget at least forty-five (45) days prior to the beginning of the forthcoming fiscal year”; “the Board shall require the vice president serving as the chief financial officer to certify the availability of funds adequate to fund the proposed budget”; and “the Board shall approve a budget for the forthcoming fiscal year no later than fifteen (15) days prior to its beginning”; and

**Whereas**, KUB staff formally presented the proposed budget appropriations for the fiscal year beginning July 1, 2021, to the Board at the Board’s budget workshop on April 15, 2021, and the Board has found their adoption to be in the best interest of KUB and its customers; and

**Whereas**, the Chief Financial Officer (CFO) of the Knoxville Utilities Board (“KUB”) has certified the availability of funds to support the proposed budget appropriations pursuant to the Board’s By-Laws.

**Now, Therefore, Be It Hereby Resolved by the Board of Commissioners of the Knoxville Utilities Board:**

**Section 1.** That budget appropriations for the fiscal year beginning July 1, 2021, and ending June 30, 2022, providing for expenditures paid for said fiscal year, be and the same are hereby made from the funds of the Electric Division, for the purposes and in the amount as follows:

Appropriations of the Electric Division (including appropriations for operation, maintenance, construction, administrative expenses, interest, bond retirements, bond funds, and payments in lieu of taxes), of which amount funds for construction may be taken from the proceeds from the sale of any electric system revenue bonds or notes, in the amount of **\$595,965,000.**



**Section 2.** That budget appropriations for the fiscal year beginning July 1, 2021, and ending June 30, 2022, providing for expenditures paid for said fiscal year, be and the same are hereby made from the funds of the Gas Division, for the purposes and in the amount as follows:

Appropriations of the Gas Division (including appropriations for operation, maintenance, construction, administrative expenses, interest, bond retirements, bond funds, and payments in lieu of taxes), of which amount funds for construction may be taken from the proceeds from the sale of any gas system revenue bonds or notes, in the amount of **\$131,374,000.**

**Section 3.** That budget appropriations for the fiscal year beginning July 1, 2021, and ending June 30, 2022, providing for expenditures paid for said fiscal year, be and the same are hereby made from the funds of the Water Division, for the purposes and in the amount as follows:

Appropriations of the Water Division (including appropriations for operation, maintenance, construction, administrative expenses, interest, bond retirements, bond funds, and payments in lieu of taxes), of which amount funds for construction may be taken from the proceeds from the sale of any water system revenue bonds or notes, in the amount of **\$78,669,000.**

**Section 4.** That appropriations for the fiscal year beginning July 1, 2021, and ending June 30, 2022, be and the same are hereby made from the funds of the Wastewater Division, for the purposes and in the amount as follows:

Appropriations of the Wastewater Division (including appropriations for operation, maintenance, construction, administrative expenses, interest, bond retirements, bond funds, and payments in lieu of taxes), of which amount funds for construction may be taken from the proceeds from the sale of any wastewater system revenue bonds or notes, in the amount of **\$127,702,000.**

**Section 5.** That expenditures for the sole benefit of the electric system shall be charged to the foregoing appropriations and from the funds of the Electric Division. Expenditures for the sole benefit of the natural gas system shall be charged to the foregoing appropriations and from the funds of the Gas Division. Expenditures for the sole benefit of the water system shall be charged to the foregoing appropriations and from the funds of the Water Division. Expenditures for the sole benefit of the wastewater system shall be charged to the foregoing appropriations and from the funds of the Wastewater Division. All expenditures for the joint benefit of the electric system, natural gas system, water system, and/or wastewater system shall be charged to the foregoing appropriations and from the funds of such divisions in accordance with the applicable division cost allocations in effect at the time of said expenditure.

**Section 6.** That in addition to the foregoing appropriations, whenever any sums are due and payable under customers' deposit agreements, under agreements providing for refundable advances to the system in connection with the construction of additions to a system, or for refunds associated with overpayments by customers, the President and CEO of KUB, or his designee, is authorized to refund any or all such sums that are or become due and payable; and all sums necessary to make such refunds shall be and the same are hereby appropriated from the funds of the divisions properly chargeable therewith.

**Section 7.** That in addition to the foregoing appropriations, whenever any sums are due and payable during the fiscal year beginning July 1, 2021, and ending June 30, 2022, for the entire principal amount of any debt issued during the fiscal year beginning July 1, 2021, and ending June 30, 2022, the President and CEO of KUB, or his designee, is authorized to pay any or all such sums that are or become due and payable, and all sums necessary to make such payments shall be and the same are hereby appropriated from the funds of the divisions properly chargeable therewith.

**Section 8.** That in addition to the foregoing appropriations, whenever any sums are received by a division on behalf of an external entity, including but not limited to the collection of sales tax, such sums shall be and the same are hereby appropriated from the funds of said division, for the purpose of paying the cost of the functions in connection with which such sums are received.

**Section 9.** That in addition to the foregoing appropriations, whenever any sums are received by a division on behalf of another division, or through the misapplication of division cost allocations, such sums shall be and the same are hereby appropriated from the funds of said division, for the purpose of paying such sums received to the appropriate division.

**Section 10.** That the KUB organizational structure, as determined by the President and CEO, which supports the electric, natural gas, water, and wastewater systems that will benefit from expenditures charged to the foregoing appropriations, is hereby approved and ratified by the Board.

**Section 11.** That all appropriations made herein shall terminate effective July 1, 2022, and any unexpended balances of such appropriations shall revert to the general funds of the division from which originally appropriated.

**Section 12.** That funds will be available for each division to fund the expenditures to be paid for the fiscal year beginning July 1, 2021, as noted in Sections 1, 2, 3, and 4 of this Resolution. The availability of funds has been certified by letter from the Senior Vice President and Chief Financial Officer, whereby said letter is attached to and incorporated by reference as part of this Resolution.

**Section 13. Be it Further Resolved** that this Resolution shall take effect from and after its passage.

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Jerry Askew, Chair

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Mark Walker, Board Secretary

APPROVED ON 1<sup>st</sup>  
& FINAL READING: \_\_\_\_\_  
EFFECTIVE DATE: \_\_\_\_\_  
MINUTE BOOK 43 PAGE \_\_\_\_\_



Knoxville Utilities Board

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May 14, 2021

Knoxville Utilities Board  
445 S. Gay Street  
Knoxville, Tennessee 37902-1109

Commissioners,

I hereby certify that within the meaning of Section 1109 of the City of Knoxville Charter and Article IX.B.2.c. of the Board's By-Laws there are sufficient funds adequate to fund the proposed budget appropriations for the fiscal year beginning July 1, 2021, as provided for in Resolution 1436, as follows:

<u>Division</u>	<u>Amount</u>
Electric	\$ 595,965,000
Gas	\$ 131,374,000
Water	\$ 78,669,000
Wastewater	\$ 127,702,000

The availability of funds for budget appropriations is based on general fund cash and all available cash reserves of the respective divisions as of July 1, 2021, and all monies anticipated to come into the general fund of each division on or before June 30, 2022 from utility sales at rates approved by the KUB Board; from other fees, charges, sales proceeds, accounts and notes receivable, or other credits in the process of collection; and from proceeds of authorized debt issues.

Please see the enclosed worksheet which demonstrates the availability of funds to support the proposed budget appropriations.

Respectfully submitted,

A handwritten signature in blue ink that reads "Mark Walker".

Mark Walker  
Senior Vice President and CFO

Enclosure

## May 2021: Certification of Available Funds - FY 2022 Budget Appropriations

### Electric Division: Certification of Available Funds

	FY 2022
Beginning General Fund Cash (as of July 1, 2021)	\$18,662,000
Sales Revenues	\$555,675,000
Other Revenues	\$23,922,000
Bond Proceeds	\$16,000,000
Cash Reserves	\$38,366,000
Total	\$652,625,000
<b>FY 2022 Budget Appropriations (Res. 1436)</b>	<b>\$595,965,000</b>
Available Funds (as of June 30, 2022)	\$56,660,000

If positive, there are available funds to fund appropriations.

### Gas Division: Certification of Available Funds

	FY 2022
Beginning General Fund Cash (as of July 1, 2021)	\$17,935,000
Sales Revenues	\$118,266,000
Other Revenues	\$3,865,000
Bond Proceeds	\$0
Cash Reserves	\$20,724,000
Total	\$160,790,000
<b>FY 2022 Budget Appropriations (Res. 1436)</b>	<b>\$131,374,000</b>
Available Funds (as of June 30, 2022)	\$29,416,000

If positive, there are available funds to fund appropriations.

### Water Division: Certification of Available Funds

	FY 2022
Beginning General Fund Cash (as of July 1, 2021)	\$22,001,000
Sales Revenues	\$61,219,000
Other Revenues	\$4,117,000
Bond Proceeds	\$0
Cash Reserves	\$17,828,000
Total	\$105,165,000
<b>FY 2022 Budget Appropriations (Res. 1436)</b>	<b>\$78,669,000</b>
Available Funds (as of June 30, 2022)	\$26,496,000

If positive, there are available funds to fund appropriations.

### Wastewater Division: Certification of Available Funds

	FY 2022
Beginning General Fund Cash (as of July 1, 2021)	\$26,176,000
Sales Revenues	\$96,913,000
Other Revenues	\$3,600,000
Bond Proceeds	\$12,000,000
Cash Reserves	\$34,284,000
Total	\$172,973,000
<b>FY 2022 Budget Appropriations (Res. 1436)</b>	<b>\$127,702,000</b>
Available Funds (as of June 30, 2022)	\$45,271,000

If positive, there are available funds to fund appropriations.

**RESOLUTION NO. 1437**

**A Resolution Approving Commitment Appropriations for the Fiscal Year Beginning July 1, 2021, Thereby Authorizing the Commitment of Expenditures to be Paid Subsequent to June 30, 2022, for Contractual Commitments Executed and Other Obligations Incurred on or Before June 30, 2022**

**Whereas**, Section 1109 of the Charter of the City of Knoxville provides that “No money shall be drawn from the treasury of the system nor shall any obligation for the expenditure of money be incurred except in pursuance of appropriations made by the board”; and

**Whereas**, as of July 1, 2021, the Knoxville Utilities Board (“KUB”) will have previously entered into contractual commitments and other obligations for goods and services to be received after June 30, 2022, resulting in the commitment of expenditures to be paid subsequent to June 30, 2022, for which said commitments were charged against a prior appropriation made by the KUB Board of Commissioners (the “Board”); and

**Whereas**, the amount of the prior appropriation for such commitments shall terminate as of July 1, 2021; and

**Whereas**, KUB staff anticipates KUB will enter into additional contracts and obligations during the period beginning July 1, 2021, and ending June 30, 2022, for goods and services to be received subsequent to June 30, 2022, resulting in the commitment of expenditures to be paid subsequent to June 30, 2022; and

**Whereas**, the appropriations provided for in this Resolution shall provide for the commitment of expenditures from KUB subsequent to June 30, 2022, for goods and services to be received by KUB subsequent to June 30, 2022, resulting from contractual commitments executed and other obligations incurred by KUB on or before June 30, 2022; and

**Whereas**, the Chief Financial Officer (CFO) has certified the availability of funds to support the proposed commitment appropriations; and

**Whereas**, the Board has found the adoption of the proposed commitment appropriations to be in the best interest of KUB and its customers.

**Now, Therefore Be It Hereby Resolved by the Board of Commissioners of the Knoxville Utilities Board:**

**Section 1.** That commitment appropriations for the fiscal year beginning July 1, 2021, and ending June 30, 2022, providing for the commitment of expenditures to be paid subsequent to June 30, 2022, for goods and services to be received subsequent to June 30, 2022, resulting from contractual commitments and other obligations incurred on or before June 30, 2022, be and the same are hereby made from the funds of the Electric Division, in the amount of **\$23,386,000**.

**Section 2.** That commitment appropriations for the fiscal year beginning July 1, 2021, and ending June 30, 2022, providing for the commitment of expenditures to be paid subsequent to June 30, 2022, for goods and services to be received subsequent to June 30, 2022, resulting from contractual commitments and other obligations incurred on or before June 30, 2022, be and the same are hereby made from the funds of the Gas Division, in the amount of **\$12,317,000**.

**Section 3.** That commitment appropriations for the fiscal year beginning July 1, 2021, and ending June 30, 2022, providing for the commitment of expenditures to be paid subsequent to June 30, 2022, for goods and services to be received subsequent to June 30, 2022, resulting from contractual commitments and other obligations incurred on or before June 30, 2022, be and the same are hereby made from the funds of the Water Division, in the amount of **\$43,029,000**.

**Section 4.** That commitment appropriations for the fiscal year beginning July 1, 2021, and ending June 30, 2022, providing for the commitment of expenditures to be paid subsequent to June 30, 2022, for goods and services to be received subsequent to June 30, 2022, resulting from contractual commitments and other obligations incurred on or before June 30, 2022, be and the same are hereby made from the funds of the Wastewater Division, in the amount of **\$22,435,000**.

**Section 5.** That funds will be available for each division to fund the expenditures to be paid subsequent to June 30, 2022, for contractual commitments executed and other obligations incurred on or before June 30, 2022, as noted in Sections 1, 2, 3, and 4 of this Resolution. The availability of funds has been certified by letter from the Senior Vice President and Chief Financial Officer, whereby said letter is attached to and incorporated by reference as part of this Resolution.

**Section 6.** That all appropriations made herein shall terminate effective July 1, 2022.

**Section 7. Be it Further Resolved** that this Resolution shall take effect from and after its passage.

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Jerry Askew, Chair

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Mark Walker, Board Secretary

APPROVED ON 1<sup>st</sup>  
& FINAL READING: \_\_\_\_\_  
EFFECTIVE DATE: \_\_\_\_\_  
MINUTE BOOK 43 PAGE \_\_\_\_\_





Knoxville Utilities Board

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May 14, 2021

Knoxville Utilities Board  
445 S. Gay Street  
Knoxville, Tennessee 37902-1109

Commissioners,

I hereby certify that within the meaning of Section 1109 of the City of Knoxville Charter and Article IX.B.3.b. of the Board's By-Laws there are sufficient funds adequate to fund the proposed commitment appropriations for the fiscal year beginning July 1, 2021, as provided for in Resolution 1437 as follows:

<u>Division</u>	<u>Amount</u>
Electric	\$ 23,386,000
Gas	\$ 12,317,000
Water	\$ 43,029,000
Wastewater	\$ 22,435,000

The availability of funds for commitment appropriations is based on general fund cash and all available cash reserves of the respective divisions as of July 1, 2022, and all monies anticipated to come into the general fund of each division prior to the maturity of the contractual commitments and other obligations from utility sales at rates approved by the KUB Board; from other fees, charges, sales proceeds, accounts and notes receivable, or other credits in the process of collection; and from proceeds of authorized debt issues.

Please see the enclosed worksheet which demonstrates the availability of funds to support the proposed commitment appropriations.

Respectfully submitted,

A handwritten signature in blue ink that reads "Mark A. Walker".

Mark A. Walker  
Senior Vice President and CFO

Enclosure

## May 2021: Certification of Available Funds - FY 2022 Commitment Appropriations

### Electric Division: Certification of Available Funds

	<u>FY 2023</u>
Available Funds (as of July 1, 2022)	\$56,660,000
Sales Revenues	\$561,723,000
Other Revenues	\$21,352,000
Total	<u>\$639,735,000</u>
<b>FY 2022 Commitment Appropriations (Res. 1437)</b>	<b><u>\$23,386,000</u></b>
Available Funds (as of June 30, 2023)	<u>\$616,349,000</u>

If positive, there are available funds to fund appropriations.

### Gas Division: Certification of Available Funds

	<u>FY 2023</u>
Available Funds (as of July 1, 2022)	\$29,416,000
Sales Revenues	\$118,939,000
Other Revenues	\$3,972,000
Total	<u>\$152,327,000</u>
<b>FY 2022 Commitment Appropriations (Res. 1437)</b>	<b><u>\$12,317,000</u></b>
Available Funds (as of June 30, 2023)	<u>\$140,010,000</u>

If positive, there are available funds to fund appropriations.

### Water Division: Certification of Available Funds

	<u>FY 2023</u>
Available Funds (as of July 1, 2022)	\$26,496,000
Sales Revenues	\$61,247,000
Other Revenues	\$4,183,000
Total	<u>\$91,926,000</u>
<b>FY 2022 Commitment Appropriations (Res. 1437)</b>	<b><u>\$43,029,000</u></b>
Available Funds (as of June 30, 2023)	<u>\$48,897,000</u>

If positive, there are available funds to fund appropriations.

### Wastewater Division: Certification of Available Funds

	<u>FY 2023</u>
Available Funds (as of July 1, 2022)	\$45,271,000
Sales Revenues	\$96,538,000
Other Revenues	\$3,501,000
Total	<u>\$145,310,000</u>
<b>FY 2022 Commitment Appropriations (Res. 1437)</b>	<b><u>\$22,435,000</u></b>
Available Funds (as of June 30, 2023)	<u>\$122,875,000</u>

If positive, there are available funds to fund appropriations.

## May 2021 - Commitments for Future Year Expenditures

<b>Electric Division</b>	<b>FY 2023</b>	<b>FY 2024</b>
Substation improvements	\$ 9,323,000	
Vegetation management circuit trimming	\$ 4,000,000	
Information technology capital projects	\$ 3,096,000	\$ 1,920,000
69kV transmission line improvements	\$ 2,349,000	
Vehicles and equipment	\$ 1,920,000	
13kV distribution line improvements	\$ 650,000	
Network system improvements	\$ 128,000	
	<b>\$ 21,466,000</b>	<b>\$ 1,920,000</b>

<b>Natural Gas Division</b>	<b>FY 2023</b>	<b>FY 2024</b>
Utility relocations for highway projects	\$ 5,220,000	\$ 3,570,000
Steel main replacement projects	\$ 1,530,000	
Information technology capital projects	\$ 1,097,000	\$ 680,000
Vehicles and equipment	\$ 220,000	
	<b>\$ 8,067,000</b>	<b>\$ 4,250,000</b>

<b>Water Division</b>	<b>FY 2023</b>	<b>FY 2024</b>
Water plant (MBW) filter replacement	\$ 19,380,000	\$ 20,400,000
Galvanized main replacements	\$ 1,005,000	
Information technology capital projects	\$ 838,500	\$ 520,000
Pressure management	\$ 424,500	
Vehicles and equipment	\$ 305,000	
Pavement resurfacing	\$ 156,000	
	<b>\$ 22,109,000</b>	<b>\$ 20,920,000</b>

<b>Wastewater Division</b>	<b>FY 2023</b>	<b>FY 2024</b>
Main rehabilitation & replacement	\$ 6,641,000	
Walker Springs pump station and forcemain	\$ 5,610,000	
Holston Hills pump station	\$ 2,040,000	
Jones Street pump station	\$ 1,710,000	
Information technology capital projects	\$ 1,419,000	\$ 880,000
Loves Creek Wastewater Treatment Plant (WWTP) electrical upgrade	\$ 1,350,000	
Kuwahee WWTP primary clarifier improvements	\$ 1,050,000	
Pavement resurfacing	\$ 1,000,000	
Fourth Creek WWTP disinfection project	\$ 650,000	
Vehicles and equipment	\$ 85,000	
	<b>\$ 21,555,000</b>	<b>\$ 880,000</b>

**RESOLUTION NO. 1438**

**A Resolution Acknowledging the Board’s Consideration of Comments of the Comptroller of the Treasury for the State of Tennessee on the Knoxville Utilities Board’s Fiber to the Home Business Plan and Calling a Public Hearing on KUB’s Intent to Provide Broadband Services Pursuant to State Law**

**Whereas**, the Board of Commissioners of KUB (the “Board”) previously adopted Resolution No. 1433 authorizing the filing of a Fiber to the Home Business Plan (“Business Plan”) with the Office of the Comptroller of the Treasury for the State of Tennessee pursuant to state law; and

**Whereas**, the Office of the Comptroller has provided a written analysis of the Knoxville Utilities Board’s (“KUB”) Business Plan; and

**Whereas**, the Board has considered the comments of the Office of the Comptroller regarding KUB’s Business Plan and finds that the provision of broadband services should benefit the City of Knoxville and surrounding areas within the limits of KUB’s electric system service territory through the availability of new and enhanced broadband services; and

**Whereas**, the Board intends for KUB to proceed with the provision of broadband services, subject to the requirements of applicable law.

**Now, Therefore, Be It Hereby Resolved by the Board of Commissioners of the Knoxville Utilities Board:**

**Section 1.** That an open and public hearing on KUB’s intent to provide broadband services is to be held May 26, 2021 at 6:00 p.m. at the Grande Event Center located at 5441 Clinton Highway, Knoxville, Tennessee 37912, in accordance with Tennessee Code Annotated, Title 7, Chapter 52, Part 6.

**Section 2.** That the Board makes the findings included in the public notice attached hereto as Exhibit A to this resolution and directs the President and CEO, or his designee, to publish such notice for the purpose of calling the public hearing.

**Section 3.** That the President and CEO, or his designee, is authorized to take such further steps as are necessary to effectuate this resolution.

**Section 4. Be it Further Resolved**, that this resolution shall take effect from and after its passage.

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Jerry Askew, Chair

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Mark Walker, Board Secretary

APPROVED ON 1<sup>st</sup>  
& FINAL READING: \_\_\_\_\_  
EFFECTIVE DATE: \_\_\_\_\_  
MINUTE BOOK 43 PAGE \_\_\_\_\_

## Resolution 1438 - Exhibit A

### **PUBLIC NOTICE OF A MEETING OF THE BOARD OF COMMISSIONERS OF KNOXVILLE UTILITIES BOARD (KUB) IN RELATION TO ITS BROADBAND BUSINESS PLAN**

NOTICE IS HEREBY GIVEN, following approval by the Board of Commissioners of the Knoxville Utilities Board of Resolution No. 1438 at its meeting on May 20, 2021, to all Commissioners of the Knoxville Utilities Board and to all interested persons that **an open and public forum will be held May 26, 2021 at 6:00 p.m. at the Grande Event Center located at 5441 Clinton Hwy. Knoxville, TN 37912.**

The meeting is intended to allow members of the public an opportunity to comment on and provide feedback to KUB's Board of Commissioners in relation to KUB's broadband business plan following a review from the Office of the Comptroller of the State of Tennessee pursuant to §§ 7-52-601, *et seq.*

KUB has considered the comments of the Comptroller's office regarding this business plan and finds that the provision of broadband service should benefit Knoxville, Tennessee and the surrounding area through the availability of new and enhanced broadband services and intends to proceed with the provision of broadband services, subject to the requirements of applicable law.

**The business plan is available to view and/or print at [www.kub.org/broadband](http://www.kub.org/broadband).**

**Any member of the public that would like to attend the meeting can register at [www.kub.org/broadband](http://www.kub.org/broadband) or by calling 865-594-7331. The registration period will close May 25, 2021 at 5 p.m.**

KUB customers who cannot attend the meeting, but who would like to submit a comment on the plan are encouraged to send an email to [BroadbandFeedback@kub.org](mailto:BroadbandFeedback@kub.org), call 865-558-2200 and leave a recorded message, or send a letter to: KUB c/o Executive Services, P.O. Box 59017, Knoxville, TN 37950-9017.

Individuals with disabilities who require an accommodation in order to attend the meeting or address the Board may contact us by email at [execdept@kub.org](mailto:execdept@kub.org) or by telephone at (865) 594-7331.



JASON E. MUMPOWER  
*Comptroller*

May 11, 2021

Honorable Indya Kincannon, Mayor  
and Honorable City Council  
City of Knoxville  
City County Building, 400 Main Street  
Knoxville, TN 37902

Dear Mayor Kincannon and Members of the Council:

Thank you for your recent correspondence. We acknowledge receipt on March 12, 2021, of a request from Knoxville Utilities Board (the "System"), a component unit of the City of Knoxville (the "City"), to provide broadband services pursuant to Tenn. Code Ann. § 7-52-601 et seq. (the "Plan"). The Comptroller's Office is required, pursuant to Tenn. Code Ann. § 7-52-602, to review and provide a written analysis as to the feasibility of proposed plans.

The Plan was prepared by the System. The uptake rate or percent of potential customers who will purchase the System's broadband services is the key assumption for the projection of future revenues to make the proposed broadband division fully self-supporting. Sufficient revenue to meet all expenses of operation and maintenance, and all debt service obligations is the primary factor in determining if the Plan appears to be financially feasible.

Based on the information in the Plan, revenues during the 10-year proforma period appear sufficient to cover all operating expenses and to pay debt service; therefore, we have determined that the proposed Plan appears feasible.

Our analysis is based upon the following assertions as presented in the Plan:

1. The rate of available customers in the System's operational area that will purchase the proposed broadband services (the "uptake rate") is projected to be 35%. The uptake rate is the key assumption for the projections that support the financial feasibility of the proposed broadband division.
2. To fund capital and operational costs for the broadband division during the start-up phase the broadband division will borrow \$35,000,000 from the electric division. The loan will have an 8-year repayment schedule and an estimated 3.6% interest rate.

3. The City intends to provide internet service, Voice over Internet Protocol (VoIP) telephone services through a third party, and cable TV. The City should consult with its legal counsel to ensure they comply with all aspects of state statutes.
4. The System projected in its pro forma schedules that the broadband division would incur a loss of cash from operating activities in years 1 and 2. It is projected that by year 3 the broadband division will generate cash from operating activities of \$117,780. Cash flow from operating activities remains positive for the remainder of the 10-year pro forma schedule. Available cash is projected to be positive for the entirety of the 10-year forecast period. The System does not anticipate the need for additional loans to meet working capital needs.

If the City decides to proceed with the Plan, it must publish a notice as required by law in a newspaper of general circulation in the area to be served which specifies the date on which a public hearing concerning this project will be held. In addition, after the public hearing is held, approval must be obtained by a two-thirds (2/3) majority vote of the Governing Body of the City or by referendum.

If the City proceeds with the Plan it agrees to the conditions precedent in Title 7, Chapter 52, Part 6 of the Tennessee Code Annotated. The City should work with its counsel in interpreting and understanding these requirements.

If you should have questions or need assistance, please feel free to contact your financial analyst, William Wood, at 615.401.7893 or [William.Wood@cot.tn.gov](mailto:William.Wood@cot.tn.gov).

Very truly yours,



Betsy Knotts  
Director of the Division of Local Government Finance

cc: Ms. Jean Suh, Local Government Audit, COT  
Mr. Gabriel Bolas, General Manager, Knoxville Utilities Board

BK:ww

Enclosure





JASON E. MUMPOWER  
*Comptroller*

**Broadband Service Regulations**  
**Tenn. Code Ann. § 7-52-601 et seq.**

Tennessee state law authorizes local governments to provide broadband services through municipal electric systems. This law also places numerous responsibilities on local governments who determine to provide such services, including the following:

- A. A separate accounting and record-keeping system must be maintained for the operation of the municipal electric system's internet services program. All costs, both direct and indirect, incurred in the operation of the program must be allocated to the rates charged for the services provided.
- B. A municipal electric system cannot subsidize the activities of the internet services program by using revenues of its power or other utility operations. The only authority to use electric system's funds is through the lending of funds, on a temporary basis, by an electric system. An electric system must charge interest to the internet services program for any loans at a rate equal to the highest rate then earned by the electric system on its invested plant funds.
- C. An internet services program must adhere to the same terms/conditions provided in existing power pole attachment agreements, including cost allocations for rates, insurance and other expenses normally associated with similar programs operated by private providers. The rate charged to the internet services program for pole attachments must be equal to the rate charged other franchise holders providing similar services.
- D. An electric system must provide the same response times and service quality to requests made by a private provider of similar services as it provides to the electric system's internet services program.
- E. An electric system, with respect to any internet services provided, must make tax equivalent payments as required by Tenn. Code Ann. § 7-52-606; however, the tax equivalent payment to be made by the electric system may not exceed the amount that would otherwise be due if it were a private provider of internet services paying ad valorem taxes.
- F. An electric system, with respect to any internet services provided, is subject to make payments to the appropriate units of government for amounts in lieu of the following taxes: excise and franchise taxes authorized by Tennessee Code Annotated, Title 67, Chapter 4, Parts 20 and 21; sales taxes authorized by Tennessee Code Annotated, Title 67, Part 6; and local privilege taxes authorized by Tennessee Code Annotated, Title 67, Chapter 4, Part 7.

- G. This state law allows local government to provide these services that have historically been provided by the private sector. It makes clear that any costs attributable to these programs must be allocated to the rates charged for services rendered, and that none of these costs are to be subsidized by electric system revenues. This requires a significant degree of recordkeeping to ensure that all expenses are properly allocated and reported. The accounting staff of the system should be familiar with these requirements and will be responsible for maintaining these records.
- H. This state law stipulates that the fiscal operations of the internet services program must be included in the annual financial report of an electric system as a segment of the electric enterprise fund and must be subject to a financial and compliance audit prepared in accordance with generally accepted governmental auditing standards. The officials of a municipal electric system should be familiar with the requirements that have been previously applied to their other utility system operations. The Comptroller of the Treasury, through the Division of Local Government Audit, shall be responsible for determining adherence to such audit and reporting requirements. Representatives of the Division of Local Government Audit may be contacting you and your independent auditor concerning these audits.

**Knoxville Utilities Board  
Board Meeting  
Minutes  
Thursday, April 15, 2021  
10:00 a.m.**

**Call to Order**

The Knoxville Utilities Board met in regular session in the Mintha E. Roach Corporate Services Building at 4505 Middlebrook Pike, on Thursday, April 15, 2021, pursuant to the public notice published in the January 2, 2021, edition of the *News Sentinel*. Chair Jerry Askew called the meeting to order at 10:00 a.m.

**Roll Call**

Commissioners Present: Jerry Askew, Claudia Caballero, Kathy Hamilton, Celeste Herbert, Adrienne Simpson-Brown, Tyvi Small, and John Worden.

Commissioners Absent: None

**Approval of Minutes**

The Minutes of the March 11, 2021 Board meeting were approved as distributed upon a motion by Commissioner Worden and seconded by Commissioner Herbert.

**Old Business**

None

**New Business**

None

**President's Report**

President Gabriel Bolas recognized Mark Walker, Senior Vice President and CFO, to provide the details of KUB's recent bond refinancing.

**Other Business**

None

April 15, 2021

**Public Comment**

None

**Adjournment**

There being nothing further to come before the Board, Chair Askew declared the Board meeting adjourned at 10:14 a.m.

**FY 2022 Budget Workshop**

President Gabriel Bolas provided an overview of KUB's COVID response and fiscal year 2021 accomplishments, as well as plans for fiscal year 2022. He then introduced John Williams, Senior Vice President, Engineering and Construction, who provided an overview of upcoming Century II projects and accomplishments for the electric and natural gas divisions. Derwin Hagood, Senior Vice President, Operations reviewed upcoming Century II projects and accomplishments for the water and wastewater divisions. Mark Walker, Senior Vice President and Chief Financial Officer, concluded the meeting with a review of KUB's long-range financial plan, proposed rate actions for fiscal year 2022, and the proposed fiscal year 2022 budget. Mr. Walker advised the Board that resolutions for fiscal year 2022 rate recommendations, fiscal year 2022 budget and commitment appropriations, and authorizing the issuance of wastewater bonds will be presented for the Board's consideration at the May Board Meeting.

**Adjournment**

Chair Askew declared the meeting adjourned at 12:18 p.m.

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Jerry Askew, Chair

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Mark Walker, Board Secretary