

JUSTIN P. WILSON Comptroller

JASON E. MUMPOWER Deputy Comptroller

March 5, 2020

Honorable Indya Kincannon, Mayor and City Council City of Knoxville P.O. Box 1631 Knoxville, Tennessee 37901

Dear Mayor Kincannon and Members of the Council:

Thank you for your recent correspondence. We acknowledge receipt on February 21, 2020, of a request from the City of Knoxville (the "City") for a report on a plan of refunding (the "Plan") for the City's proposed issuance of an estimated \$9,840,000 Gas System Revenue Refunding Bonds, Series Z-2020.

Pursuant to the provisions of Tennessee Code Annotated Title 9 Chapter 21, enclosed is a report based upon our review of the City's Plan. The Plan, this letter, and the enclosed report should be made available on the City's website and must be presented to each member of the Council for review prior to the adoption of a refunding bond authorizing resolution.

#### Changes to our Office

We are enclosing a memorandum about the newly created Division of Local Government Finance within the Comptroller's Office.

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. You may also contact our office by mail at the address located at the bottom of this page. Please send it to the attention of your analyst.

Very truly yours,

Betsy Knotts

Director of the Division of Local Government Finance

cc:

Ms. Jean Suh, Contract Audit Review Manager, Division of Local Government Audit

Mr. Gabriel J. Bolas, KUB President and CEO, Knoxville Utilities Board Mr. Mark Walker, Chief Financial Officer, Knoxville Utilities Board

**Enclosures:** 

Report of the Director of the Division of Local Government Finance

Comptroller's Memorandum Regarding New Division

BK:ww



Justin P. Wilson

Comptroller

JASON E. MUMPOWER

Deputy Comptroller

#### Report of the Director of the Division of Local Government Finance Concerning the Proposed Issuance of Gas System Revenue Refunding Bonds, Series Z-2020 Knoxville, Tennessee

This report is being issued pursuant to T.C.A. § 9-21-1003 and is based upon information as presented in a plan of refunding (the "Plan") received by our office on February 21, 2020, from the City of Knoxville (the "City"). Our report provides information to assist the governing body in its responsibility to understand the nature of the refunding transaction, including the costs, risks, and benefits, prior to approving the issuance of the refunding bonds and is designed to provide consistent and comparable information for all local governments in Tennessee.

This report does not constitute approval or disapproval of the Plan or a determination that a refunding is advantageous or necessary nor that any of the refunded obligations should be refinanced or remain outstanding until their respective dates of maturity. This report does not address compliance with federal tax regulations and is not to be relied upon for that purpose. The City should discuss these issues with bond counsel. This report and the City's Plan must be presented to the governing body prior to the adoption of a refunding bond resolution.

#### **Refunding Analysis**

At the request of the President and CEO of the Knoxville Utilities Board, our office has reviewed the City's Plan, as required by TCA § 9-21-1003, and provides the following analysis based upon the assumptions outlined in the Plan:

The City intends to issue by competitive sale approximately \$9,840,000 Gas System Revenue Refunding Bonds, Series Z-2020 (the "Series Z-2020 Refunding Bonds") priced at par to refund \$9,675,000 Gas System Revenue Bonds, Series P-2010 (Build America Bonds) maturing March 1, 2021 through March 1, 2032 (the "Refunded Bonds").

- The City's objective for the refunding is to achieve net present value debt service savings. The estimated net present value debt service savings is \$939,946 or 9.72% of the refunded principal amount of \$9,675,000.
- The City plans to contribute \$67,610 from its cash on hand to the transaction to pay the accrued interest on the Refunded Bonds.
- The final maturity of the Series Z-2020 Refunding Bonds does not extend beyond the final maturity of the Refunded Bonds.
- The proposed structure of the Series Z-2020 Refunding Bonds is not balloon indebtedness as defined in T.C.A. § 9-21-134.

#### • Estimated costs of issuance are summarized below:

	1	Amount	Price per ,000 Bond
Estimated Underwriter's Discount	\$	74,805	\$ 7.60
Financial Advisor (Cumberland Securities Company)		21,000	2.13
Bond Counsel (Bass Berry & Sims)		15,000	1.52
Rating Agency		40,000	4.07
Miscellaneous Fees (Paying Agent, Etc.)		14,195	1.44
Total Cost of Issuance	\$	165,000	\$ 16.76

#### Financial Information for the Fiscal Year Ended June 30, 2019

For the fiscal year ended June 30, 2019, the District's audited financial statements reflected operating income of \$18,695,989, and a positive change in net position of \$15,627,690. The District's statement of cash flows reflected debt service payments of \$10,859,512, consisting of principal payments of \$6,350,000 and interest payments of \$4,509,512. At June 30, 2019 the District reported \$31,187,947 in unrestricted cash and cash equivalents.

#### Changes to the Structure of the Repayment Schedule

If the structure is revised, the City should determine if the new structure complies with the requirements of T.C.A. § 9-21-134 concerning balloon indebtedness. If it is determined that the bond structure constitutes balloon indebtedness, the City must submit a Plan of Balloon Indebtedness to the Director of the Division of Local Government Finance for approval prior to the City adopting the resolution authorizing the issuance of the debt.

#### **Financial Professionals**

The Plan was prepared with the assistance of the City's financial advisors, Cumberland Securities Inc. Financial advisors have a fiduciary responsibility to the City. Underwriters have no fiduciary responsibility to the City. They represent the interests of their firm and are not required to act in the City's best interest without regard to their own or other interests.

The Municipal Securities Rulemaking Board (MSRB) establishes rules and notices that municipal advisors and underwriters must follow when engaging in municipal securities transactions and advising investors and local governments. To learn more about the obligations of the City's underwriter and municipal advisor, please read the information posted on the MSRB website: <a href="https://www.msrb.org">www.msrb.org</a>.

#### Plan Assumptions

The assumptions of the Plan are the assertions of the City. An evaluation of the preparation, support and underlying assumptions of the Plan has not been performed by our office. This report provides no assurances of the reasonableness of the underlying assumptions. The assumptions included in the City's Plan may not reflect either current market conditions or market conditions at the time of sale. The Series Z-2020 Refunding Bonds may be issued with a structure different from that of the Plan.

#### **Debt Management Policy**

The City has adopted a debt management policy and has indicated in its Plan that the proposed refunding transaction complies with the City's policy.

#### Requirements After the Refunding Bonds Have Been Issued

We have included a listing of certain compliance requirements your local government will be responsible for once the bonds are issued. The listing is not all inclusive and you should work with your municipal advisor and bond counsel to ensure compliance with legal and regulatory requirements related to the proposed refunding.

#### Effective Date for this Report

This report is effective for a period of ninety (90) days from the date of the report. If the refunding transaction has not been priced during this ninety (90) day period, a new plan of refunding, with new analysis and estimates based on market conditions at that time, must be submitted to our office. We will then issue a report on the new plan for the City Council to review prior to adopting a new refunding bond authorizing resolution.

Betsy Knotts

Director of the Division of Local Government Finance

Date: March 5, 2020

Enclosure: Requirements After Debt is Issued



JUSTIN P. WILSON
Comptroller

JASON E. MUMPOWER Deputy Comptroller

#### Requirements After Debt is Issued

#### • Annual Budget Approval

Your local government will be subject to an annual budget approval process for the life of the outstanding debt as required by TCA § 9-21-403. Please refer to our online guidance at: <a href="mailto:tncot.cc/budget">tncot.cc/budget</a>.

#### Bonds not Refunded

If all the bonds are not refunded as a part of the proposed refunding transaction and the City wishes to refund them in a subsequent bond issue, then a new plan must be submitted to our office for review.

#### Debt Management Policy

Your local government should regularly review and, if necessary, amend its debt management policy. Please submit any amended policy to our office immediately upon adoption. Guidance concerning debt management policies is available at: tncot.cc/debt-policy.

#### Required Notification

We recognize that the information provided in the Plan submitted to our office is based on preliminary analysis and estimates and that actual results will be determined by market conditions at the time of sale. However, if it is determined prior to the issuance of the debt, that the actual results will differ significantly from the information provided in the submitted Plan and the City decides to proceed with the issue, the City's governing body and our office should be notified after the sale by the local government's Chief Executive Officer or the Chief Financial Officer regarding these differences. The Chief Executive Officer must state that they were aware of the differences and determined to proceed with the issuance of the debt. Notification will be necessary only if there is a change of ten percent (10%) or more in any of the following:

- (1) An increase in the principal amount of the debt issued;
- (2) An increase in costs of issuance; or
- (3) A decrease in the cumulative savings or increase in the loss.

The notification must include an explanation for any significant differences and the justification for a change of ten percent (10%) or more from the amounts in the plan. This notification should be presented to the City's governing body and our office with the required filing of the Report on Debt Obligation, Form CT-0253.

#### • Report on Debt Obligation (State Form CT – 0253)

Pursuant to T.C.A. § 9-21-151(6)(c), a Report on Debt Obligation (the "Report") shall be completed and filed with the governing body of the local government no later than forty-five (45) days after the issuance of the Notes, with a copy (including attachments, if any) filed with the Division of Local Government Finance. The Report and instructions may be accessed at: <a href="mailto:tncot.cc/debt-report">tncot.cc/debt-report</a>. No public entity may enter into additional debt if it has failed to file the Report.

#### • Rule 15c2-12 of the Securities Exchange Act

Local governments that have issued municipal securities on or after February 27, 2019, are required to report certain information related to the issuance of financial obligations. Information on the reporting requirements is available on the Municipal Securities Rulemaking Board (MSRB) Electronic Municipal Market Access EMMA® website: <a href="mailto:emma.msrb.org">emma.msrb.org</a>.



February 20, 2020

Ms. Sandra Thompson Director of Office of State and Local Finance Cordell Hull Building 425 Fifth Avenue North Nashville, TN 37243-3400

Re: Knoxville Utilities Board / City of Knoxville, Tennessee - Gas System

Dear Ms. Thompson:

The Knoxville Utilities Board ("KUB") of the City of Knoxville, Tennessee (the "City") is pleased to enclose for your consideration a report entitled "Plan of Refunding" dated February 20, 2020. This report is being delivered to you to comply with Chapter 34, Title 7 and Chapter 21, Title 9 Tennessee Code Annotated.

**Entity Information:** 

- (A) KUB, governed by a Board of Commissioners, on behalf of the City of Knoxville, Tennessee, governed by the City Council, pursuant to the City's Charter, KUB has full legal authority and controls all aspects of the issuance of the proposed refunding debt.
- (B) Indya Kincannon, Mayor P.O. Box 1631 Knoxville, TN 37901

Gabriel J. Bolas II, KUB President and CEO 445 South Gay Street Knoxville, TN 37902

Mark Walker, KUB CFO (865) 594-7428 445 South Gay Street Knoxville, TN 37902

E-Mail address: gabriel.bolas@kub.org and mark.walker@kub.org

(C) Contacts for additional information:

Financial Advisor: Cumberland Securities Company, Inc. (865-988-2663)

Joe Ayres: <u>joe.ayres@cumberlandsecurities.com</u> and Scott P. Gibson: <u>scott.gibson@cumberlandsecurities.com</u>

Bond Counsel: Bass, Berry & Sims (865-521-0365) Mark Mamantov: mmamantov@bassberry.com **Timing Information:** 

(A) March 24, 2020 regularly scheduled City Council Meeting

Specific Request for:

(A) KUB on behalf of the City hereby requests a Report from the Office of State and Local Finance on the enclosed Plan of Refunding pursuant to Chapter 34, Title 7 and Chapter 21, Title 9 Tennessee Code Annotated.

The City, acting by and through KUB, is proposing to refinance the following outstanding obligations: Gas System Revenue Bonds, Series P-2010, dated December 08, 2010, maturing March 1, 2021 through March 1, 2032 in the outstanding principal amount of \$9,675,000 (the "Series P-2010 Bonds").

The enclosed Plan of Refunding outlines the projected structure based upon current market conditions. To maximize flexibility the City's bond resolution will be drafted to authorize the refunding of all or any portion of the above referenced debt. Therefore, the final structure and sizing could vary from the enclosed request based on the final structure of the proposed Bonds.

The City Council is scheduled to meet on Tuesday, March 24, 2020 to discuss the Plan of Refunding and other documents related to this refinancing plan.

If you have any questions or need any additional information with respect to this financing, please do not hesitate to contact me or our Financial Advisor, Mr. Joe Ayres or Mr. Scott P. Gibson at Cumberland Securities Company, Inc. (865-988-2663) at your earliest convenience.

Very truly yours,

Gabriel J. Bolas II President and CEO

c: Mayor Indya Kincannon

Mr. Joe Ayres

Mr. Mark Mamantov

**Enclosure** 

#### Plan of Refunding - Gas System

#### Knoxville Utilities Board / City of Knoxville, Tennessee

- A) Identification of Key Professionals (including financial advisors, bond counsel, underwriters, or lenders) who have provided advice or proposals on which the Entity relied to prepare the Plan):
  - 1. Underwriter: Determined at Competitive Public Sale
  - 2. Bond Counsel: Bass, Berry & Sims
  - 3. Financial Advisor: Cumberland Securities Company, Inc.
- B) Purpose(s) of Refunding, including parameters:
  - 1. Cost Savings: include a projection of the savings and amortization schedules for both refunding and refunded debt:
    - a. See attached Preliminary Refunding Analysis page 1.
  - 2. Restructuring: provide a comparison of existing and proposed structures, describing why debt is being restructured:
    - a. N/A
  - 3. Covenant change: Clearly describe covenant to be eliminated or revised and any change in the structure:
    - a. N/A
  - 4. Reduction or elimination of risk: describe risk to be reduced or eliminated:
    - a. The proposed refunded bonds are fixed rate and will be refunded with fixed rate bonds, therefore, there will be no change in risk.
- C) Statement that the proposed refunding complies with the Entity's adopted debt management policy and a description of how the transaction is consistent with the policy, including any savings threshold. If there is no adopted policy or the transaction is not consistent, the Entity shall provide a detailed explanation.
  - KUB adopted a debt management policy on November 17, 2011 and amended the
    policy on September 20, 2012. The proposed structure does have savings in excess
    of 3% and does not extend debt past the original life of the issue which is consistent
    with the KUB debt management policy. Additionally, the proposed debt is
    traditional fixed rate debt and is the preferred form of debt under KUB's debt
    management policy.

#### D) Other Information

- 1. Amortization schedules for both (proposed) refunding and (outstanding) debt to be refunded,
  - a. Proposed refunding debt schedule: See attached Preliminary Refunding Analysis pages 2.
  - b. Outstanding debt schedule(s): See attached Preliminary Refunding Analysis page 3 and page 4.

#### As well as the following:

#### 2. Refunding Debt:

- a. Maximum size to be authorized by the governing body, identifying all outstanding debt that could be included in the refunding:
  - i. Maximum size authorized by governing body = \$9,850,000. To refund the Gas System Revenue Bonds, Series P-2010, dated December 08, 2010, maturing March 1, 2021 through March 1, 2032 in the outstanding principal amount of \$9,675,000 (the "Series P-2010 Bonds").
- b. **Anticipated Size** = \$9,845,000
- c. Anticipated final maturity and weighted average maturity. If the final maturity is extended beyond the fiscal year of final maturity of debt to be refunded or the weighted average maturity is increased, list the projects as required below for refunded debt:
  - i. Final Maturity = 3/1/2032 (Same as refunded Debt)
  - ii. Weighted Average Maturity = 6.61 Years
- d. **Estimated Breakdown of Costs of Issuance:** See attached Preliminary Refunding Analysis page 5.
- e. **Estimated Sources and Uses of Funds:** See attached Preliminary Refunding Analysis page 5.
- 3. Refunded Debt: Information must be provided with respect to each debt issue to be refunded; (if all currently outstanding debt will not be refunded, identify maturities that are candidates for refunding).
  - a. Name of issue, type of debt, original terms, including whether the debt is federally tax-exempt or taxable.

i. Gas System Revenue Bonds, Series P-2010, dated December 08, 2010, maturing March 1, 2021 through March 1, 2032 in the outstanding principal amount of \$9,675,000 (the "Series P-2010 Bonds"). The Series P-2010 Bonds are tax-exempt, fixed-rate debt, with a final maturity on March 1, 2032.

#### b. Date of issue and copy of CT-0253 filed.

i. Date of Issue = December 08, 2010. The CT-0253 was filed with the Office of State and Local Finance in connection with the issue of the Series P-2010 Bonds.

#### c. Date of authorization by the governing body.

- i. The Series P-2010 Bonds were authorized by the City's governing body on November 02, 2010.
- d. Whether bank-qualified or under other small issuer exception.
  - i. No
- e. Projects funded with proceeds of issue and remaining average life of projects (if final maturity or weighted average maturity of debt is extended).
  - i. The purpose of the Series P-2010 Bonds being refunded were to provide funds to pay the costs of the construction, renovation, extension and improvements to the System; and to pay costs incident to the issuance and sale of Bonds. The average life of the proposed refunding bonds will not be longer than the average remaining life of the assets financed.

#### f. Derivative product, if any, and copy of Report of Compliance:

 There is no derivative agreement associated with the Series P-2010 Bonds.

# Knoxville Utilities Board of the City of Knoxville, Tennessee Proposed Gas System Refunding

Preliminary Refunding Report

February 20, 2020

#### Prepared By:

#### Cumberland Securities Company, Inc.

Independent Registered Municipal Advisors P.O. Box 22715

> Knoxville, Tennessee 37933 Telephone: (865) 988-2663

Facsimile: (865) 988-1863



**CUMBERLAND SECURITIES** 

SINCE 1931

#### Disclaimer and Disclosures

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RISK DISCIOSURES:							
Fixed Rate Bonds							
Material Risk Consideration	Description of Risk	Potential Consequences					
Issuer Default Risk	Possibility that the Issuer defaults under the authorizing documents	Range of available remedies may be brought against Issuer (e.g. forcing issuer to raise taxes or rates)     Credit ratings negatively impacted     Access to capital markets impaired     Possibility of receivership or bankruptcy for certain issuers					
Redemption Risk	The ability to redeem the bonds prior to maturity may be limited	Inability to refinance at lower interest rates					
Refinancing Risk	Possibility that the bonds cannot be refinanced	Inability to refinance at lower interest rates					
Reinvestment Risk	Possibility that the Issuer may be unable to Invest unspent proceeds at or near the Interest rate on the bonds	Negative arbitrage resulting in a higher cost of funds					
Tax Compliance Risk	For tax-exempt bonds, possibility that failure to comply with tax-related covenants results in the bonds becoming taxable obligations	Increase in debt service costs retroactively to date of issuance Possible mandatory redemption of bonds affected Risk of IRS Audit Difficulty in refinancing the bonds Access to tax-exempt market impacted Difficulty in issuing future tax-exempt debt					

Variable Rate I		x") / "Put Loan" (e.g. Fixed Rate for Five (5) Years, then Rate Resets to New Rate)
Material Risk Consideration	Description of Risk (Type of Debt Risk Applicable to)	Potential Consequences
Interest Rate Risk	Possibility that the interest rate may increase on an interest reset date	Increase in debt service cost (up to maximum rate)
	(VRDB, FRN, Index, Put Loans)	Lower debt service coverage
		Lower cash reserves
Index Risk	Possibility that the method of determining the index (LIBOR or SIFMA) could	Increase in debt service costs
	change	Lower debt service coverage
	Indices may be affected by factors unrelated to FRN's/Index Loan or the tax-	Lower cash reserves     Provision should be made for alternate mechanism to determine rate
	exempt market (VRDB, FRN, Index, Put Loans)	Notision should be finde for alternate thechanism to determine rate
Issuer Default Risk	Possibility that the Issuer defaults under the authorizing documents	Range of available remedies may be brought against Issuer (e.g., forcing Issuer to raise taxes or
Issuel Delault Nisk	(VRDB, FRN, Index, Put Loans)	revenues)
	(1100)	Credit ratings negatively impacted
		Default could impact remarketing which could cause increase in debt service costs
		Access to capital markets impaired
		•
Issuer Ratings Downgrade Risk	Possibility that a downgrade of the Issuer's rating(s) may result in optional	<ul> <li>Ratings change could impact remarketing which could cause an increase in debt service cost</li> </ul>
	tenders or an increase in fees payable to the bank providing the liquidity	Higher liquidity facility fees resulting in higher cost of funds
	facility (VRDB, FRN, Index, Put Loans)	
Liquidity Risk	Possibility that VRDB's cannot be successfully remarketing, resulting in Bank	Increase in debt service costs due to higher bank bond rate and accelerated principle repayment
	Bonds (VRDB)	May be required to refinance or term out the VRDO's
		Inability to refinance or possibly higher interest rates
Liquidity Provider Default Risk	Possibility that the bank providing the liquidity facility supporting the VRDO's	Issuer required to repay principal and accrued interest if Issuer is not able to refinance
	defaults in its obligations under the liquidity facility (VRDB)	Increase in debt service costs     Ratings change could impact remarketing which could cause an increase in debt service cost
Liquidity Provider Ratings	Possibility that a downgrade of the liquidity provider's rating(s) may result in	Katings change could impact remarketing which could cause an increase in dept service cost
Downgrade	optional tenders (VRDB)  Possibility that the FRN, Index or Put Loan cannot be remarketed or	Hard Put: must repay principal and accrued interest or Event of Default
Refinancing Risk	refinanced	Soft Put: higher interest rate on debt and higher debt service costs up to maximum rate
	(FRN, Index, Put Loans)	Increase in debt service costs upon any refinancing
	(Titty mach, Fascours)	Inability to refinance or possibly higher interest rates
Regulatory Risk	Possibility that prospective regulatory requirements increase cost of	Increase in debt service costs
HeBalatory Hisk	obtaining and maintaining the liquidity facility (VRDB, FRN, Index, Put Loans)	Higher liquidity facility fees resulting in higher cost of funds
Reinvestment Risk	Possibility that the issuer may be unable to invest unspent proceeds at or near	Negative arbitrage resulting in higher cost of funds
Hemires many many	the interest rate on the bonds (VRDB, FRN, Index, Put Loans)	V 2:
Remarketing Risk	Possibility that the remarketing agent does not perform its duties in a	Higher interest rates
Construction of the constr	satisfactory manner or may resign or cease its remarketing efforts	Difficulty remarketing the VRDO's
	(VRDB)	May require appointment of a successor remarketing agent
Renewal Risk	Possibility that the facility or loan will not be extended for a successive	<ul> <li>Issuer required to repay principal and accrued interest on tender date if issuer is not able to</li> </ul>
	commitment period or not be replaced at a reasonable cost	refinance
	(VRDB, FRN, Index, Put Loans)	Increase in debt service costs
Tax Compliance Risk	For tax exempt bonds, possibility that failure to comply with tax related	Increase in debt service costs retroactively to date of issuance
	covenants result in the bonds becoming taxable obligations	Possible mandatory redemption of bonds affected
	(VRDB, FRN, Index, Put Loans)	Risk of IRS audit
		Difficulty in refinancing the bonds
		Access to tax exempt market impacted     Difficulty in legaling future tax exempt debt
		Difficulty in issuing future tax-exempt debt



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#### **ESTIMATED SAVINGS ANALYSIS**

#### Knoxville Utilities Board of the City of Knoxville, Tennessee Gas System Revenue Refunding Bonds, Series Z-2020

Date	Principal	Estimated Interest Rate	Interest	Total P+I	Refunded D/S	Savings	Present Value to 04/15/2020 at 2.105148%
06/30/2021	750,000,00	1.500%	169,090.72	919,090.72	1,015,986.80	96,896.08	96,296.06
06/30/2022	745,000.00	1.600%	181,385.00	926,385.00	1,019,899,08	93,514.08	90,760.82
06/30/2023	760,000.00	1.650%	169,465.00	929,465.00	1,022,432.30	92,967.30	88,312.86
06/30/2024	775,000.00	1.750%	156,925.00	931,925.00	1,029,127.20	97,202.20	90,335.04
06/30/2025	790,000.00	1.800%	143,362,50	933,362.50	1,027,385.02	94,022.52	85,529.42
06/30/2026	810,000.00	1.850%	129,142.50	939,142.50	1,034,720.72	95,578.22	85,069.90
06/30/2027	825,000.00	1.900%	114,157.50	939,157,50	1,035,107.34	95,949.84	83,562.04
06/30/2028	840,000.00	2.000%	98,482.50	938,482.50	1,032,312.54	93,830.04	79,956.52
06/30/2029	855,000.00	2.100%	81,682.50	936,682.50	1,033,310.60	96,628.10	80,547.70
06/30/2030	875,000.00	2.250%	63,727.50	938,727,50	1,032,900,28	94,172.78	76,807.24
06/30/2031	890,000.00	2.350%	44,040.00	934,040.00	1,031,081.58	97,041.58	77,428.11
06/30/2032	925,000.00	2.500%	23,125.00	948,125.00	1,041,580.30	93,455.30	72,950.71
	9,840,000.00		1,374,585.72	11,214,585.72	12,355,843.76	1,141,258.04	1,007,556.42

#### **Savings Summary**

PV of savings from cash flow Less: Prior funds on hand	1,007,556.42 (67,610.28)
Net PV Savings	939,946.14
Nct PV Benefit/ Refunded Principal	9.7152%
Dated	04/15/2020
First Coupon Date	09/01/2020
Weighted Average Maturity	6.61
Average Coupon	2.1129%
Bond Yield for Arbitrage Purpose	2.1051481%
True Interest Cost (TIC)	2.2313751%

#### ESTIMATED DEBT SERVICE

#### Knoxville Utilities Board of the City of Knoxville, Tennessee Gas System Revenue Refunding Bonds, Series Z-2020

		Estimated			
Date	Principal	Coupon	Interest	Total P+I	Fiscal Total
09/01/2020			72,773.22	72,773.22	*
03/01/2021	750,000.00	1.500%	96,317.50	846,317.50	
06/30/2021					919,090.72
09/01/2021			90,692.50	90,692.50	
03/01/2022	745,000.00	1.600%	90,692.50	835,692.50	
06/30/2022					926,385.00
09/01/2022			84,732.50	84,732.50	
03/01/2023	760,000.00	1.650%	84,732.50	844,732.50	
06/30/2023					929,465.00
09/01/2023			78,462.50	78,462.50	
03/01/2024	775,000.00	1.750%	78,462.50	853,462.50	
06/30/2024					931,925.00
09/01/2024			71,681.25	71,681.25	
03/01/2025	790,000.00	1.800%	71,681.25	861,681.25	
06/30/2025					933,362.50
09/01/2025			64,571.25	64,571.25	
03/01/2026	810,000.00	1.850%	64,571.25	874,571.25	
06/30/2026					939,142.50
09/01/2026			57,078.75	57,078.75	
03/01/2027	825,000.00	1.900%	57,078.75	882,078.75	
06/30/2027					939,157.50
09/01/2027			49,241.25	49,241.25	
03/01/2028	840,000.00	2.000%	49,241.25	889,241.25	
06/30/2028					938,482.50
09/01/2028			40,841.25	40,841.25	
03/01/2029	855,000.00	2.100%	40,841.25	895,841.25	
06/30/2029					936,682.50
09/01/2029			31,863.75	31,863.75	
03/01/2030	875,000.00	2.250%	31,863.75	906,863.75	
06/30/2030					938,727.50
09/01/2030			22,020.00	22,020.00	
03/01/2031	890,000.00	2.350%	22,020.00	912,020.00	
06/30/2031					934,040.00
09/01/2031			11,562.50	11,562.50	
03/01/2032	925,000.00	2.500%	11,562.50	936,562.50	
06/30/2032					948,125.00
	9,840,000.00		1,374,585.72	11,214,585.72	

#### **Date Structure**

Date First Coupon Date 04/15/2020 09/01/2020

#### **Yield Statistics**

Average Coupon Weighted Average Maturity True Interest Cost (TIC) 2.1128836% 6.612 2.2313751%

#### PRIOR BOND DEBT SERVICE

### Knoxville Utilities Board of the City of Knoxville, Tennessee \$12,000,000 Gas System Revenue Bonds, Series P-2010 (BAB's)

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service	Other Cash Flow	Total	Annual Total
09/01/2020			276,587.50	276,587.50		(91,094.10)	185,493.40	
03/01/2021	645,000	4.875%	276,587.50	921,587.50		(91,094.10)	830,493.40	
06/30/2021					1,198,175.00			1,015,986.80
09/01/2021			260,865.63	260,865.63		(85,916.09)	174,949.54	
03/01/2022	670,000	5.000%	260,865.63	930,865.63		(85,916.09)	844,949.54	
06/30/2022					1,191,731.26			1,019,899.08
09/01/2022			244,115.63	244,115.63		(80,399.48)	163,716.15	
03/01/2023	695,000	5.000%	244,115.63	939,115.63		(80,399.48)	858,716.15	
06/30/2023					1,183,231.26			1,022,432.30
09/01/2023			226,740.63	226,740.63		(74,677.03)	152,063.60	
03/01/2024	725,000	5.500%	226,740.63	951,740.63		(74,677.03)	877,063.60	
06/30/2024					1,178,481.26			1,029,127.20
09/01/2024			206,803.13	206,803.13		(68,110.62)	138,692.51	
03/01/2025	750,000	5.500%	206,803.13	956,803.13		(68,110.62)	888,692.51	
06/30/2025					1,163,606.26			1,027,385.02
09/01/2025			186,178.13	186,178.13		(61,317.77)	124,860.36	
03/01/2026	785,000	5.625%	186,178.13	971,178.13		(61,317.77)	909,860.36	
06/30/2026					1,157,356.26			1,034,720.72
09/01/2026			164,100.00	164,100.00		(54,046.33)	110,053.67	
03/01/2027	815,000	6.000%	164,100.00	979,100.00		(54,046.33)	925,053.67	
06/30/2027					1,143,200.00			1,035,107.34
09/01/2027			139,650.00	139,650.00		(45,993.73)	93,656.27	
03/01/2028	845,000	6.000%	139,650.00	984,650.00		(45,993.73)	938,656.27	
06/30/2028					1,124,300.00			1,032,312.54
09/01/2028			114,300.00	114,300.00		(37,644.70)	76,655.30	
03/01/2029	880,000	6.000%	114,300.00	994,300.00		(37,644.70)	956,655.30	
06/30/2029					1,108,600.00			1,033,310.60
09/01/2029			87,900.00	87,900.00		(28,949.86)	58,950.14	
03/01/2030	915,000	6.000%	87,900.00	1,002,900.00		(28,949.86)	973,950.14	
06/30/2030					1,090,800.00			1,032,900.28
09/01/2030			60,450.00	60,450.00		(19,909.21)	40,540.79	
03/01/2031	950,000	6.200%	60,450.00	1,010,450.00		(19,909.21)	990,540.79	
06/30/2031					1,070,900.00			1,031,081.58
09/01/2031			31,000.00	31,000.00		(10,209.85)	20,790.15	
03/01/2032	1,000,000	6.200%	31,000.00	1,031,000.00		(10,209.85)	1,020,790.15	
06/30/2032		770			1,062,000.00			1,041,580.30
	9,675,000		3,997,381.30	13,672,381.30	13,672,381.30	(1,316,537.54)	12,355,843.76	12,355,843.76

#### SUMMARY OF BONDS REFUNDED

Bond	Maturity Date	Interest Rate	Par Amount	Call Date	Call Price
\$12,000,000 Gas Syster	n Revenue Bonds,	Series P-2010	Federally Taxable	BAB's), BOND:	
	03/01/2021	4.875%	645,000.00	04/15/2020	100.000
	03/01/2022	5.000%	670,000.00	04/15/2020	100.000
	03/01/2023	5.000%	695,000.00	04/15/2020	100.000
	03/01/2024	5.500%	725,000.00	04/15/2020	100.000
	03/01/2025	5.500%	750,000.00	04/15/2020	100.000
	03/01/2026	5.625%	785,000.00	04/15/2020	100.000
			4,270,000.00		
\$12,000,000 Gas Syster	n Revenue Bonds,	Series P-2010	Federally Taxable	BAB's), 2028TEF	RM:
	03/01/2028	6.000%	1,660,000.00	04/15/2020	100.000
\$12,000,000 Gas System	n Revenue Bonds,	Series P-2010	Federally Taxable	BAB's), 2030TEF	RM:
	03/01/2030	6.000%	1,795,000.00	04/15/2020	100.000
\$12,000,000 Gas System	n Revenue Bonds,	Series P-2010	Federally Taxable	BAB's), 2032TER	RM:
•	03/01/2032	6.200%	1,950,000.00	04/15/2020	100.000
			9,675,000.00		

#### SOURCES AND USES OF FUNDS

Sources:	
Bond Proceeds:	
Par Amount	9,840,000.00
Other Sources of Funds:	
KUB Contributions for Accrued Interest	67,610.28
	9,907,610.28
Uses:	
Refunding Escrow Deposits:	
Cash Deposit	9,742,610.28
Cost of Issuance:	
Municipal Advisor	21,000.00
Bond Counsel	15,000.00
Rating Agency - Moody's	20,000.00
Rating Agency - S&P Global	20,000.00
Paying Agent	700.00
POS/Official Statement	7,500.00
Advertising	1,000.00
Miscellaneous	4,995.00
	90,195.00
Underwriter's Discount:	
Underwriter's Discount (Awarded to Lowest Bidder)	74,805.00
	9,907,610.28

#### SUMMARY OF REFUNDING RESULTS

Dated Date	04/15/2020
Delivery Date	04/15/2020
Arbitrage yield	2.105148%
Escrow yield	0.000000%
Value of Negative Arbitrage	
Bond Par Amount	9,840,000.00
True Interest Cost	2.231375%
Net Interest Cost	2.227867%
Average Coupon	2.112884%
Average Life	6.612
Par amount of refunded bonds	9,675,000.00
Average coupon of refunded bonds	5.933297%
Average life of refunded bonds	6.846
PV of prior debt to 04/15/2020 @ 2.105148%	10,847,556.42
Net PV Savings	939,946.14
Percentage savings of refunded bonds	9.715206%
Percentage savings of refunding bonds	9.552298%

Issuer's No.	· .
	(To be filled out by State)

## REPORT ON DEBT OBLIGATION (Pursuant to Chapter 402, Public Acts of 1989)

## RECEIVED

		A II kee	
1. Issuer:		DEC 13 10	10
Name	Knoxville Utilities Board	STATE AND LOCAL	FINANCE
Address	Attn: President & CEO	21417.1	
	445 Gay Street		
	Knoxville, Tennessee 37902		
2. Debt Obligation:	X a.Bond b.CON	5. Face Amount of Debt Obligation: \$12,000,000	
	c.BAN d.GAN e.Leasc/Lease Purchase f.Loan Agreement	6. Type of Sale:  X a. Competitive Public Sale b. Negotiated c. Loan Program specify	
3. Security for Debt (		7. Tax Status aTax Exempt bXTaxable	
b. Genera X c. Reven	al Obligation al Obligation Revenue and Tax uc al Appropriations	8. Dated Date: December 8, 2010	
b. Educa	Percent of Issue: al Government ation vays and Streets	9. Issue Date (Closing Date): December 8, 2010  10. Rating: a. Moody's"Aa2" b. Standard & Poor's"AA" c. Unrated	
d. Public e. Solid f. Indust g. Manu	Safety Waste Disposal Irial Park Ifacturing Facilities h Facilities	11. Interest Cost:  3.6732853%  X a. TIC (Net of Rebate) b. NIC c. Variable d. Other	
X j. Utiliti	i. Water ii. Sewer iii. Electric iv. Gas 100%	12. Recurring Costs:  a.Remarketing Agent Fees \$  b.Liquidity Fees \$  c.Credit Enhancement Fees \$	

#### 13. Maturity Dates, Amounts and Interest Rates

Year	Amount	Interest Rate
2017	\$540,000	3.30%
2018	570,000	3.80%
2019	595,000	4.25%
2020	620,000	4.50%
2021	645,000	4.875%
2022	670,000	5.00%
2023	695,000	5.00%
2024	725,000	5.50%
2025	750,000	5.50%
2026	785,000	5.625%

Year	Amount	Interest Rate
2028	\$1,660,000	6.00%
2030	1,795,000	6.00%
2032	1,950,000	6.20%
		•

4. Itemized Description of the Cost of Issuance a. Financial Advisor Fees* \$23,750		Name of Firm Morgan Keegan & Company, Inc.	
b. Legal Fees	Ψ23,730	worgan keegan & company, me.	
i. Bond Counsel	\$15,000	Bass, Berry & Sims PLC	
ii. Issuer's Counsel	<b>\$13,000</b>	Dass, Derry & Jillis I EC	
iii. Trustee's Counsel			
iv. Verification Fee	Manage .	The state of the s	
Tr. Tollication Foo			
c. Paying Agent Fees and	\$500	Regions Bank	
Registration Fees	4500	TOBIONS DUNK	
d. Trustee Fees			
e. Remarketing Agent Fees			
f. Liquidity Fces	2		
g. Rating Agency Fees	\$14,600	Moody's, Standard & Poor's	
h. Credit Enhancement Fces			
i. Underwriter's Discount(%)	\$182,001	Robert W. Baird & Co., Inc.	
i. Take Down			
ii. Management Fce			
iii. Risk Premium			
iv. Underwriter's Counsel			
v. Other Expenses			
j. Printing and Advertising Fees	\$3,000	Knoxville News-Sentinel, i-deal, Print Shop, CUSIP	
k. Issuer Fees		· · · · · · · · · · · · · · · · · · ·	
I. Real Estate Fees			
m. Other Costs	\$1,125	structuring, postage, Fed Ex, document producion, etc.	
n. Total Costs	\$239,976		
* If other costs are included, please itemiz	e.		

Mutta Koach	/s/ Joseph K. Ayres
Authorized Representative	Preparer
	Managing Director
President & CEO	Title .
Title	Morgan Keegan & Company, Inc.
	Firm ·
December 8, 2010	December 8, 2010
Date .	Date

SEND TO: Comptroller of the Treasury, Director-Division of Local Finance, Suite 1700, 505 Deaderick Street, James K. Polk State Office Building, Nashville, Tennessee 37243-0274