

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION OF NORTHERN KENTUCKY	)	
WATER DISTRICT FOR APPROVAL OF	)	CASE NO. 2018-00316
THE ISSUANCE OF A CERTIFICATE OF	)	
CONVENIENCE AND NECESSITY AND	)	
APPROVAL OF FINANCING FOR	)	
WATER MAIN REPLACEMENT	)	

**APPLICATION FOR APPROVAL OF CONSTRUCTION  
AND FINANCING AND MOTION FOR DEVIATION**

Northern Kentucky Water District (NKWD), by counsel, petitions for an order approving the construction of a water main replacement and improvement as described below pursuant to KRS 278.020. Approval of the financing pursuant to KRS 278.300 is also requested.

**MOTION**

NKWD requests a deviation pursuant to 807 KAR 5:001(22) from the requirement that the financial exhibit submitted in compliance with 807 KAR 5:001(12(1)(a) cover the period no less than 90 days from the filing of the application. The financial statements provided are for the period ended June 30, 2018. There have been no material changes to the financial condition of NKWD. The current statements have not been prepared. Updated information will have no impact on the review of the proposal. For this reason, NKWD seeks a deviation for acceptance of the financial information provided.

**I. General Information:**

In support of the application, the following information is provided:

1. NKWD's office address is 2835 Crescent Springs Rd., Erlanger, KY 41018-0640. Its principal officers are listed in its current Annual Report, which is filed with the Commission as are its prior years Reports and is incorporated by reference.

Its contact officer is:

Lindsey Rechtin, Vice President of Finance and Support Services  
2835 Crescent Springs Rd.  
Erlanger, KY 41018-0640  
(859) 426-2758 Phone  
(859) 442-0665 fax  
lrechtin@nkywater.org

2. NKWD is a non-profit water district organized under Chapter 74 and has no separate articles of incorporation. 807 KAR 5:001 (14)(2):

3. A description of NKWD's water system and its property stated at original cost by accounts is contained in its Annual Report, which is incorporated by reference. 807 KAR 5:001(18)(b). No material changes have occurred since the end of the latest 12 month period. 807 KAR 5:001(12).

4. NKWD serves retail customers in Kenton, Boone and Campbell Counties and sells water at wholesale to non-affiliated water distribution systems in Kenton, Boone, Pendleton and Campbell Counties.

**II. Proposed Construction:**

5. NKWD proposes to construct new facilities as described in Exhibit A. 807 KAR 5:001 (15(2)(a)(c)(d). A petition for confidentiality for the Plans and Specifications has been submitted with the Application. An existing 36 inch concrete water main will be replaced with 2,600 feet of 24" ductile iron main in Kenton County. No additional customers will be added as a result of this project.

6. A summary of the project costs is provided below:

○	Engineering	\$ 85,430.74
○	Contractor's Bid	\$ 980,040.00
○	Misc. & Contingencies	<u>\$ 134,529.26</u>
	Total Project Cost	\$ 1,200,000.00

NKWD was awarded a \$4,000,000 loan by the Kentucky Infrastructure Authority (KIA). The KIA financing information and approval are included in Exhibit D. This is one of two projects funded by this \$4,000,000 loan. NKWD is seeking approval of the total \$4,000,000 in this application, but a certificate of convenience and necessity only for the 36" main replacement project at this time. The second project funded by this loan will be submitted for approval when it is bid, which is expected to be early next year. It involves upgrades to the existing SCADA system to improve safety and security. 807 KAR 5:001(15(2)(e)).

7. The construction is in the public interest and is required to allow NKWD to continue to provide adequate service to its customers and to reduce a significant source of on-going leaks from the existing main. The District maintains a cross-country, 36-inch prestressed concrete cylinder pressure pipe (PCCP) that runs between Rogers Road in the City of Edgewood and Centre View Boulevard in the City of Crestview Hills, Kentucky. This water main serves as a transmission main from the Dudley Pump Station to the 1080 pressure zone, which feeds a good portion of the Cities of Edgewood, Erlanger, Elsmere, Florence, and Independence and abutting areas. This water main transverses steep terrain with a creek crossing at the bottom of the hill, which makes it very challenging to access to make repairs. A previous owner also placed fill dirt on top of the water main, which further complicates repairs.

NKWD has experienced numerous leaks on this section of water main from joint leaks to circumferential cracks and longitudinal breaks in the pipe wall. This section of concrete water main installed in the early 1980s is currently shut down due to a leak in an extremely deep area. The main can be taken out of service, since NKWD installed a redundant 36-inch water main along Horsebranch Road in 2011 to provide a back-up to this critical transmission water main. The project, its cost, need and other details are contained in the Project Description and Exhibit A.

8. NKWD has received approval from the DOW for the Plans and Specifications

and funding for this improvement. Easements and rights of way have been acquired, see Exhibit B.

9. This service will not compete with any other utility in the area.

10. The proposed construction project identified in Exhibit A is scheduled to begin construction in January 2019 or upon PSC approval and the expected in service date is in May 2019. Board approval of the final bids for the project is included in Exhibit C. The bids were opened September 6, 2018 and are subject to acceptance for 90 days. Bid tabs are included in Exhibit C. **Bids will expire December 4, 2018.**

11. No new franchises are required. A copy of the DOW letter approving the Plans and Specifications for the proposed improvements is attached as Exhibit B. 807 KAR 5:0015(2)(b).

12. Construction descriptions are in Exhibit A and Bid Documents. Facts relied on to justify the public need are included in the project descriptions in Exhibit A.

13. Maps of the area showing location of the proposed facilities are in Exhibit A.

14. The construction costs will be funded by as described above.

15. Estimated operating costs for operation and maintenance, depreciation and debt service after construction are shown in Exhibit D. 807 KAR 5:001(15)(2)(f).

16. A description of the facilities and operation of the system are in Exhibit A.

17. A full description of the route, location of the project, description of construction and related information is in Exhibit A.

18. The total estimated cost of construction at completion is referenced in Exhibits A, B and D.

19. CWIP at end of test year is listed in the Annual Report incorporated by reference.

20. Plant retirements are listed in Exhibit B and the Annual Report. No salvage values are included as booked.

21. The use of the funds and need for the facilities is justified based on the

engineering report included as Exhibit A

22. No rate adjustment is being proposed.

23. Depreciation cost, cost of operation after installation and debt service are in Exhibit D.

The financing is based on the need to finance two construction projects. The construction projects, identified in Exhibit A, are scheduled to be constructed in 2018-19.

807 KAR 5:001 (15(2)(a)(c)(d).

8. The following information is provided pursuant to **807 KAR 5:001(12)**:

a. Financial operations for twelve-month period not less than 90 days prior –  
See Exhibit E.

b. No stock is authorized; No stock is issued.

c. There are no stock preferences.

d. Mortgages are listed in Exhibit E.

e. Bonds are listed in Exhibit E.

f. Notes are listed in Exhibit E.

g. Other indebtedness is listed in Exhibit E.

h. No dividends have been paid.

i. Current balance sheet and income statement are attached as Exhibits F.

20. The following information is provided as required by 807 KAR 5:001 (12):

a. A general description of the property is contained in the Annual Report.  
The 2017 Report and audited financial information is the latest available from the District.

b. No stock is to be issued; No bonds are to be issued in this case;

c. There is no refunding or refinancing;

d. The proceeds of the KIA financing are to construct the property described in Exhibits A and D.

e. The par value, expenses, use of proceeds, interest rates and other information is not applicable because no bonds are being issued at this time.

21. The following exhibits are provided pursuant to 807 KAR 5:001 (18)(2):

a. There are no trust deeds. All notes, indebtedness and mortgages are included in Exhibit E.

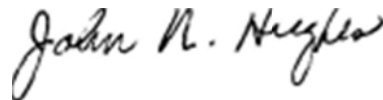
b. No property is to be acquired. 807 KAR 5:001(18)(2)(c).

22. Plant additions will be classified according to USoA "Water Utility Plant Accounts": 331, 334, 335, See Exhibit D.

23. The Kentucky Debt Officer has been notified of the KIA loan. See Exhibit B. 807 KAR 5:001(18)(g).

For these reasons, the District requests issuance of an order granting authority to construct and finance the facilities and for any other authorization that may be necessary.

SUBMITTED BY:



John N. Hughes  
124 W. Todd St.  
Frankfort, KY 40601  
[jnhughes@johnnhughespsc.com](mailto:jnhughes@johnnhughespsc.com)  
502 227 7270 Ph.

Alex Mattingly  
Manager of Legal, Compliance,  
and Regulatory Affairs  
Northern Kentucky Water District  
2835 Crescent Springs Rd.  
Erlanger, KY 41018  
Phone - 859-578-5455 (Direct)  
Fax - 859-426-2770  
[amattingly@nkywater.org](mailto:amattingly@nkywater.org)

Attorneys for Northern  
Kentucky Water District



Section 14(2)	<p>If a corporation, the applicant shall identify in the application the state in which it is incorporated and the date of its incorporation, attest that it is currently in good standing in the state in which it is incorporated, and, if it is not a Kentucky corporation, state whether it is authorized to transact business in Kentucky.</p> <p>If a limited liability company, the applicant shall identify in the application the state in which it is organized and the date on which it was organized, attest that it is in good standing in the state in which it is organized, and, if it is not a Kentucky limited liability company, state whether it is authorized to transact business in Kentucky.</p>	n/a
Section 14(4)	<p>If the applicant is a limited partnership, a certified copy of its limited partnership agreement and all amendments, if any, shall be annexed to the application, or a written statement attesting that its partnership agreement and all amendments have been filed with the commission in a prior proceeding and referencing the case number of the prior proceeding.</p>	n/a
Section 15(2)	<p>(a) The facts relied upon to show that the proposed construction or extension is or will be required by public convenience or necessity.</p>	Application
	<p>(b) Copies of franchises or permits, if any, from the proper public authority for the proposed construction or extension, if not previously filed with the commission.</p>	Exhibit B
	<p>(c) A full description of the proposed location, route, or routes of the proposed construction or extension, including a description of the manner in which same will be constructed, and the names of all public utilities, corporations, or persons with whom the proposed construction or extension is likely to compete.</p>	Ex A
	<p>(d)(1) Three (3) copies (one (1) in portable document format on electronic storage medium and two (2) in paper medium) of maps to suitable scale showing the location or route of the proposed construction or extension, as well as the location to scale of like facilities owned by others located anywhere within the map area with adequate identification as to the ownership of the other facilities.</p>	Ex A
	<p>(d)(2) Plans and specifications and drawings of the proposed plant, equipment, and facilities.</p>	Ex A
	<p>(e) The manner in detail in which the applicant proposes to finance the proposed construction or extension.</p>	Ex D
	<p>(f) An estimated annual cost of operation after the proposed facilities are placed into service.</p>	Ex D
KRS 322.340	<p>Engineering plans, specifications, drawings, plats and reports for the proposed construction or extension prepared by a registered engineer, must be signed, sealed, and dated by an engineer registered in Kentucky.</p>	Ex A
Section 14(2)	<p>If applicant is a corporation, the applicant shall identify in the application the state in which it is incorporated and the date of its incorporation, attest that it is currently in good standing in the state in which it is</p>	n/a



	incorporated, and, if it is not a Kentucky corporation, state whether it is authorized to transact business in Kentucky.	
Section 14(3)	If applicant is a limited liability company, the applicant shall identify in the application the state in which it is organized and the date on which it was organized, attest that it is in good standing in the state in which it is organized, and, if it is not a Kentucky limited liability company, state whether it is authorized to transact business in Kentucky.	n/a
Section 14(4)	If applicant is a limited partnership, a certified copy of its limited partnership agreement and all amendments, or a written statement that its partnership agreement and all amendments have been filed with the Commission in a prior proceeding and a reference to the case number of that proceeding.	n/a
KRS 278.300(2)	Application made under oath, and signed on behalf of the utility by its president, or by a vice president, auditor, comptroller or other executive officer having knowledge of the matters set forth and duly designated by the utility.	Ex B
<u>807 KAR 5:001:</u>		
Section 18(1)	(a) The information required by Section 14 of this administrative regulation	Application
	(b) Description of applicant's property and the field of its operation	
	(b) Statement of original cost of applicant's property and the cost to the applicant, if different.	Application
	(c) If stock issuance:	
	--Description of amount and kinds of stock to be issued.	Application
	--If preferred stock, a description of the preferences.	
	If Bonds or Notes or Other Indebtedness is proposed:	
	--Description of the amount(s).	Application
	--Full description of all terms.	Ex E
	--Interest rates(s).	
	--Whether the debt is to be secured and if so a description of how it is to be secured.	
	(d) Statement of how proceeds are to be used. Show amounts for each type of use (e.g., property, debt refunding, etc.).	Ex A
	(e) If proceeds will be used to acquire, construct, improve, or extend property, provide a detailed description and all contracts.	Ex A
	(f) If proceeds are to refund outstanding obligations, provide:	n/a
	--Statement of the nature and description of obligation	
	--Par value	

	--Amount for which actually sold	
	--Expenses and application of proceeds	
	--Date of obligations	
	--Total amount	
	--Time held	
	--Interest rate	
	--Payee	
	(g) If the applicant is a water district, a copy of the applicant's written notification to the state local debt officer regarding the proposed issuance.	
Section 18(2)	(a) Financial Exhibit (see below)	Ex B Ex E, F
	(b) Copies of all trust deeds or mortgages. If previously filed, state case number.	Ex E
	(c) If Property to be acquired:	
	--Maps and plans of property.	Ex A
	--Detailed estimates by USOA account number.	Ex D
Section 12(1)	(b) For a utility that had less than \$5,000,000 in gross annual revenue in the immediate past calendar year, comply with paragraph (a) of this subsection or cover operations for the twelve (12) month period contained in the utility's most recent annual report on file with the commission, and contain a statement that: 1. Material changes have not occurred since the end of that twelve (12) month period or 2. Identifies all material changes that have occurred since the end of that twelve (12) month period.	
	(a) For a utility that had \$5,000,000 or more in gross annual revenue in the immediate past calendar year, information required by Section 12(2) shall cover operations for a twelve (12) month period, the period ending not more than ninety (90) days prior to the date the application is filed	
Section 12(2)	(a) Amount and types of stock authorized.	n/a
	(b) Amount and types of stock issued and outstanding.	
	(c) Detail of preference terms of preferred stock.	
	(d) Brief description of mortgage:	
	--Date of Execution	

--Name of Mortgagor	
--Name of Mortgagee or Trustee	
--Amount of Indebtedness Secured	
--Sinking Fund Provisions	
(e) Bonds	Ex E
--Amount Authorized	
--Amount Issued	
--Name of Utility Who Issued	
--Description of Each Class Issued	
--Date of Issue	
--Date of Maturity	
--How Secured	
--Interest Paid in Last Fiscal Year	
(f) Notes Outstanding:	
--Date of Issue	Ex E
--Amount	
--Maturity Date	
--Rate of Interest	
--In Whose Favor	
--Interest Paid in Last Fiscal Year	
(g) Other Indebtedness:	
--Description of Each Class	Ex E
--How Secured	
--Description of Any Assumption of Indebtedness by Outside Party (i.e., any transfer)	
--Interest Paid in Last Fiscal Year	
(h) Rate and amount of dividends paid during the five (5) previous fiscal years and the amount of capital stock on which dividends were paid each year.	n/a
(i) Detailed income statement and balance sheet.	Ex F

NORTHERN KENTUCKY  
WATER DISTRICT

Case No. 2018-00316

**Project**

**24-inch Cross-Country Water Main  
Replacement Project,  
Edgewood/Crestview Hills,  
Kenton County, Kentucky**

184-0776

**Proposed 24-inch Cross-Country Water Main Replacement Project  
Edgewood/Crestview Hills, Kenton County, Kentucky  
184-0776**

**Project Description**

The District maintains a cross-country, 36-inch pre-stressed concrete cylinder pressure pipe (PCCP) that runs between Rogers Road in Edgewood and Centre View Boulevard in Crestview Hills, Kentucky. This water main serves as a transmission main from the Dudley Pump Station to the 1080 pressure zone, which feeds a good portion of the Edgewood, Erlanger, Elsmere, Florence, and Independence areas. This water main transverses steep terrain with a creek crossing at the bottom of the hill, which makes it very challenging to access to make repairs. A previous owner also placed fill dirt on top of the water main, which further complicates repairs.

The District has experienced numerous leaks on this section of water main, from joint leaks to circumferential cracks and longitudinal breaks in the pipe wall. This section of concrete water main, installed in the early 1980s, is currently shut down due to a leak in an extremely deep area. The main can be taken out of service, since the District installed a redundant 36-inch water main along Horsebranch Road in 2011 to provide a back-up to this critical transmission water main.

This project involves the construction of approximately 2,650 linear feet of 24" ductile iron cross-country water main together with the appurtenances and related work from Rogers Road to Centre View Boulevard in the Cities of Edgewood and Crestview Hills, Kenton County, Kentucky. This project will replace the existing 36-inch concrete water main which has experienced numerous water main breaks.

Bids for this project were opened on September 6, 2018 and are subject to acceptance for 90 days. Therefore, the bids will expire on December 4, 2018.

**NORTHERN KENTUCKY WATER DISTRICT**  
**24” Cross-Country Water Main Replacement Project**  
**Edgewood/Crestview Hills, Kenton County, Kentucky**  
**184-0776**

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Project Description

<b><u>EXHIBIT</u></b>	<b><u>TITLE</u></b>
A	ENGINEERING REPORTS AND INFORMATION (1) Project map (2) Engineer’s opinion of probable total construction cost; (3) System Hydraulic Model (4) Plans prepared by Viox & Viox titled “24-Inch Cross-Country Water Main Replacement {Rogers Road to Center View Blvd.} Phase 2 of WX21117003, Edgewood/Crestview Hills, Kentucky” dated August 2018, sealed by a P.E. (5) Specifications prepared by Viox & Viox titled “24-Inch Cross-Country Water Main Replacement {Rogers Road to Center View Blvd.} Phase 2 of WX21117003, Edgewood/Crestview Hills, Kentucky” dated August 2018, sealed by a P.E.
B	Certified statement from an authorized utility Official confirming: (1) Affidavit (2) Franchises (3) Plan review and permit status (4) Easements and Right-Of-Way status (5) Construction dates and proposed date in service (6) Plant retirements (7) State Debt Officer notification
C	BID INFORMATION Bid tabulation, Engineer’s recommendation of award, Board Meeting Minutes.
D	PROJECT FINANCE INFORMATION Customers added and revenue effect, Debt issuance and source of debt, Additional costs and operating and maintenance, USoA plant account, Depreciation cost and debt service after construction.
E	SCHEDULE OF MORTGAGES, BONDS, NOTES, AND OTHER INDEBTEDNESS
F	CURRENT BALANCE SHEET AND INCOME STATEMENT

NORTHERN KENTUCKY  
WATER DISTRICT

*Project*

*24-inch Cross-Country Water Main  
Replacement Project,  
Edgewood/Crestview Hills,  
Kenton County, Kentucky*

184-0776

ENGINEERING REPORTS AND INFORMATION

Project Map

Engineer's Opinion of Probable Total Construction Cost

System Hydraulic Model

Plans prepared by Viox & Viox, Inc., titled "24-Inch Cross-Country Water Main Replacement {Rogers Road to Center View Blvd.} Phase 2 of WX21117003, Edgewood/Crestview Hills, Kentucky" dated August 2018, sealed by a P.E.

Specifications prepared by Viox & Viox titled "24-Inch Cross-Country Water Main Replacement {Rogers Road to Center View Blvd.} Phase 2 of WX21117003, Edgewood/Crestview Hills, Kentucky" dated August 2018, sealed by a P.E.

NORTHERN KENTUCKY  
WATER DISTRICT

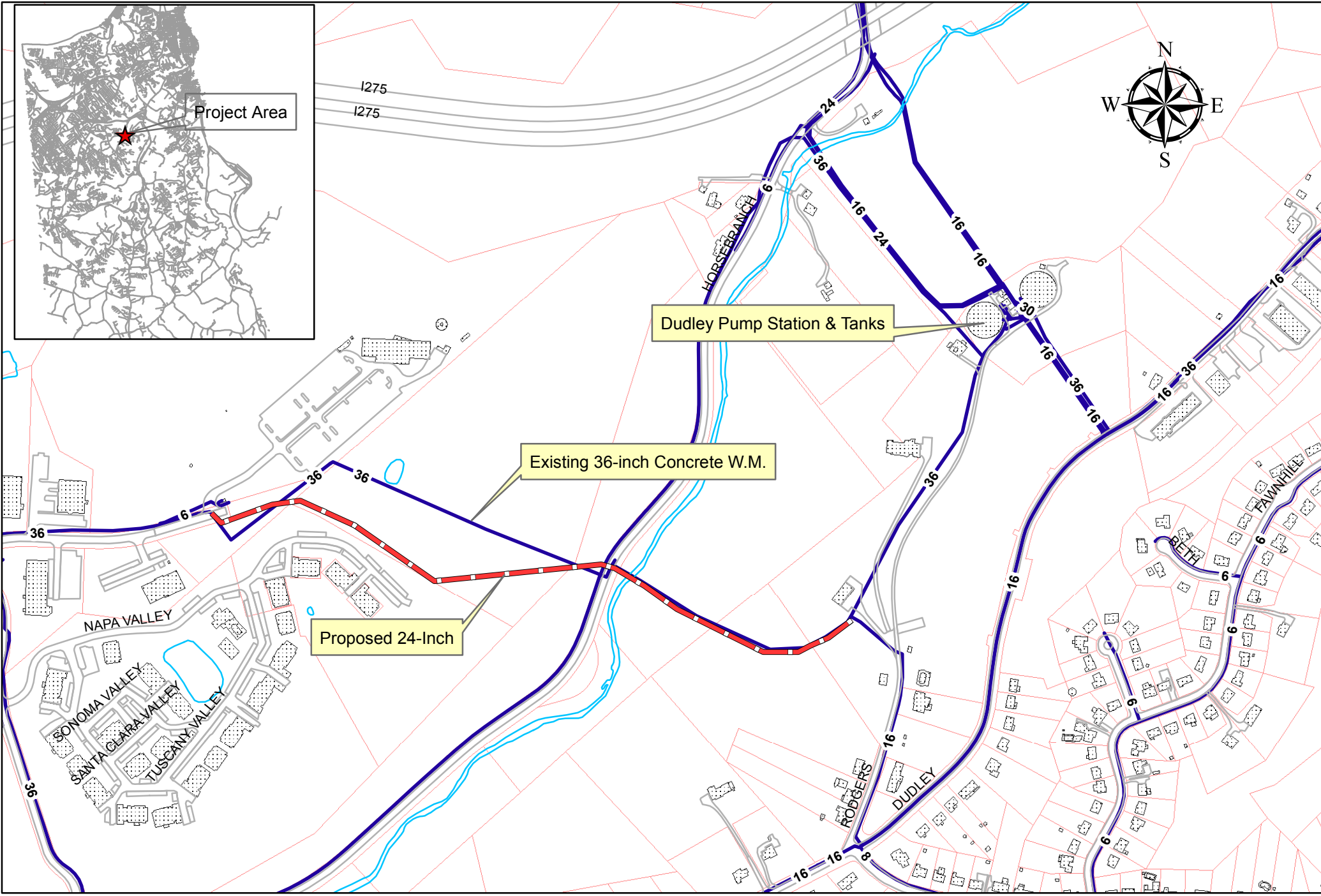
*Project*

*24-inch Cross-Country Water Main  
Replacement Project,  
Edgewood/Crestview Hills,  
Kenton County, Kentucky*

184-0776

Project Map





# 24-inch Cross-Country Water Main Replacement Project

NORTHERN KENTUCKY  
WATER DISTRICT

*Project*

*24-inch Cross-Country Water Main  
Replacement Project,  
Edgewood/Crestview Hills,  
Kenton County, Kentucky*

184-0776

Engineer's Opinion  
Of Probable  
Construction Cost



NORTHERN KENTUCKY  
WATER DISTRICT

*Project*

*24-inch Cross-Country Water Main*  
*Replacement Project,*  
*Edgewood/Crestview Hills,*  
*Kenton County, Kentucky*

184-0776

System Hydraulic Model

# Northern Kentucky Water District

November 16, 2017

Division of Water  
Drinking Water Branch  
300 Sower Blvd, 3rd Floor  
Frankfort, KY 40601

Re: 24 Inch Cross-Country Water Main Replacement, Edgewood / Crestview Hills, Kenton County, Kentucky (Phase 2 of WX21117003, F16-027, SAI#KY20160226-0173)

To Whom It May Concern:

This is to indicate that the above referenced project was initiated by the Northern Kentucky Water District. The project has been reviewed by the District and the necessary water for domestic use is available and will be supplied under normal conditions, and the District shall accept maintenance of this project.

The District cannot approve this project under Agreed Order No. DWO 06008 since the project is funded through an SRF Loan.

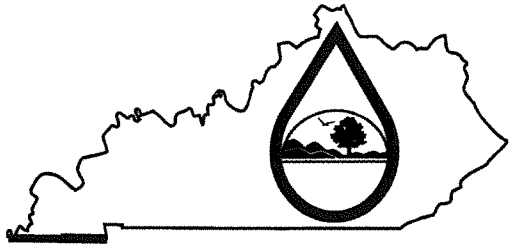
If there are questions, please do not hesitate to contact me at 859-426-2713.



Kyle Ryan  
Engineering Manager, Design & Construction

cc: file

Enclosed: Form DW-1  
Hydraulic Calculations  
U.S.G.S. 7 ½ minute topographic map  
Categorical Exclusion Determination  
SRF Plans & Specifications Checklist  
3 Sets of full size plans  
3 copies of the specifications  
CD containing PDFs of plans and specifications



**Commonwealth of Kentucky**  
 Energy and Environment Cabinet  
**Division of Water**

**Construction Application  
 For Drinking Water Distribution**

See the instructions for more information about selected portions of this checklist.  
 Questions on completing this checklist? Contact the Water Infrastructure Branch at 502/564-3410 or visit our website at <http://www.water.ky.gov/dw> for more information.

**I. Construction Project Information**

Project Name: 24 Inch Cross-Country Water Main Replacement - Phase 2 of WX21117003, F16-027

Project County: Kenton Estimated Project Cost: \$ 1,737,050

Project Latitude/Longitude (DMS): 39° 01' 16"N / 84° 32' 56"W

11 Digit Hydrologic Unit Code (HUC): 00

Is this a federally funded project:

DWSRF

SPAP

Other: No

If yes, has an Environmental Information Document been reviewed and approved? Yes, a Categorical Exclusion Determination (CED) was issued May 23, 2017 (See attached).

If the project has been submitted to the State Clearinghouse for review, provide the SAI number: # KY20160226-0173

Identify all other funding sources: NKWD

Does the project contain any of the following:

Booster Pump Stations

Water Storage Tanks

Waterlines

Waterline Material	Waterline Size	Linear Feet
Ductile Iron	24"	2,640
Ductile Iron	8"	10

Provide a brief description of the work to be performed for waterlines less than 10,000 linear feet. All other distribution projects should be accompanied by a DETAILED project description. This project will include the design and installation of:

Approximately 2,640 feet of 24" ductile iron water main to replace the existing aging infrastructure.



### Design Capacities

Identify the number of new connections and the projected average daily demand: No new connections

Identify the number of existing residents, and their projected water demand, that may be served as a result of this project:

0 existing Customers/ 0 GPM

Identify the number of connections in the service area: 81,000

### Other Information to be Submitted with the Project

1. Provide a copy of the U.S.G.S. 7 ½ minute topographic map with the location(s) of the proposed project.
2. If the project includes a new or upgraded pump station(s), provide the pump sizing calculations and the proposed pump's characteristics curve along with the efficiency, horsepower and NPSHR data. Also, identify each pump station's locations coordinates (DMS).
3. If the project proposes the addition of storage tanks, provide engineering calculations which demonstrates a complete fill and drain cycle every 72 hours. Also, identify each storage tank's location coordinates (DMS).
4. Provide engineering calculations or an electronic model demonstrating the availability of 30 psig in the waterline under peak demand conditions.
5. Provide engineering calculations or an electronic model that demonstrates if the proposed waterlines are capable of a 2.5 ft/sec flow velocity and show associated residual system pressures.
6. Provide a signed letter of acceptance from the utility, which states that the utility has reviewed and approved the plans and specifications and agrees to serve the proposed project upon completion. If another utility will own, operate and maintain any portion of this project provide an acceptance letter from that utility as well.
7. If the utility is a purchaser and the project demand is over 10,000 gallons per day or the utility has exceeded 85% of its purchase contract, provide a valid acceptance letter from the seller.
8. If the project will provide water service to existing residences, provide the names and addresses of all existing residences to be served by the project, if known.
9. If the project is funded by a State Revolving Fund Loan (SRF) provide a completed SRF Plans and Specifications Checklist along with 1 complete printed copy of the project specifications.

### IV. Environmental Benefits

Identify the environmental benefit(s) of the project by checking all that apply.

- Construction of new waterlines serving existing residences previously without public water.
- Modifies/upgrades existing waterlines:
  - Inadequately sized waterlines.
  - Leaks, breaks, restrictive flow.
  - Replaces lead, copper or asbestos cement waterlines.
  - Other: \_\_\_\_\_
- Provides fire protection.
- Replaces tanks/pumps due to age/condition.
- Installation of high efficiency/energy saving pumps.
- Other. Provide a brief description in the space below. \_\_\_\_\_



**V. Fees**

Check or money order must be made payable to "Kentucky State Treasurer" for the total amount. Fees do not apply to projects FUNDED by a municipality, water district, or other publicly owned utility.

Project Category: \_\_\_\_\_ Total Amount: \$ \_\_\_\_\_



FIRE FLOW CERTIFICATION

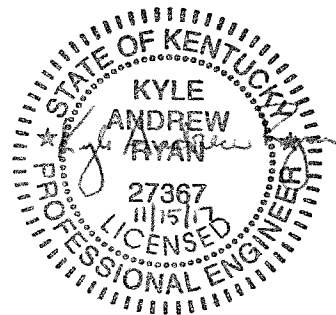
**24 Inch Cross-Country  
Water Main Replacement  
City of Edgewood / Crestview Hills  
Kenton County, KY  
November 15, 2017**

I certify that the proposed improvements meet the 807 KAR 5:066, Section 10b regulation for fire flow protection relating to KRS Chapter 278. I am certifying that “the system can provide a minimum fire flow of 250 gallons per minute; and the water system supporting this flow has the capability of providing this flow for a period of not less than two (2) hours plus consumption at the maximum daily rate”. This certification is based on the information available and is not a guarantee of any precise results.

This certification is based on hydraulic modeling performed using InfoWater, the program available from InnoVyz. Supporting documentation and operating conditions are attached and are the basis for this certification.

It should be noted that input data used for modeling is based on available data. Results can change and are dependent on the demand conditions, which can vary at any given time. These values will impact the final results when adjusted. The certification is based on estimated conditions and contains many assumptions based on historical data.

Fire flow analyses were made using a hydrant within the subdivision that would provide a representative result that should simulate the results at other hydrants within the system. Minor variations at different hydrants would still provide a flow rate that meets the minimum standard.





## HYDRAULIC AND FLUSHING VELOCITY CERTIFICATION

**24 Inch Cross-Country  
Water Main Replacement  
City of Edgewood / Crestview Hills  
Kenton County, KY  
November 15, 2017**

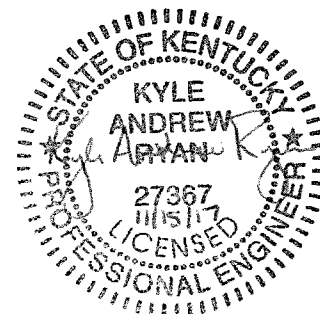
I certify that the proposed improvements are capable of meeting the American Water Works Association Standard C651-14 standard for flushing velocity in the main meeting 3.0 feet per second while maintaining at least 20 psi pressure in accordance with 401 KAR 8:100.

The maximum flow rate that can reliably be supplied to the main and meet 20 psi in the system under maximum hour conditions is 4,200 gpm. At least 30 psi can be maintained under the peak domestic demand. The peak domestic demand using the D.R. Taylor formula for 0 customers is 0 gpm.

This certification is based on the information available and is not a guarantee of any precise results. Results are based on hydraulic modeling performed using InfoWater, the program available from Innovyze. Supporting documentation and operating conditions are attached and are the basis for this certification.

It should be noted that input data used for modeling is based on available data. Results can change and are dependent on the demand conditions, which can vary at any given time. These values will impact the final results when adjusted. The certification is based on estimated conditions for maximum hour demand conditions and contains many assumptions based on historical data.

The assumed Hazen-Williams roughness coefficient for all new pipe was 120, which is suitable for ductile iron or PVC. The water level in the Devon and Industrial Tanks were one-half full.



24 Inch Cross-Country  
 Water Main Replacement  
 Edgewood / Crestview Hills  
 Kenton County, Kentucky  
 Output from InfoWater model - copied to Excel  
 November 15, 2017



### Maximum Hour Run for Potential Customers

Maximum Hour Run, 0 affected Customers = 0 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5922	0.0	826	1118.1	126.6
J200	0.0	604	1117.3	222.4
V10450	0.0	830	1115.9	123.9

### Flushing Velocities Under Maximum Hour

\*side street mains closed to get 3.0 fps

Flushing velocity 3.0 fps for new 24" pipe (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5922	0.0	826	1091	115
J200	0.0	604	1090	211
V10450	4200.0	830	1088	112

Pipe information for flushing velocity at 3.0 fps for new 24" pipe					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
5634	979	24	4200	3.0	120
P337	1692	24	4200	3.0	120

### Maximum Available Flow Under Maximum Hour

Maximum Hour Run, Maximum Available Flow				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5922	0.0	826	1092	115
J200	0.0	604	1090	211
V10450	4200.0	830	1088	112

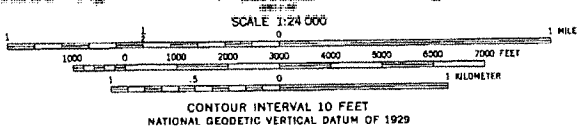
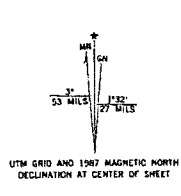
<u>Pipe ID</u>	<u>From Node</u>	<u>To Node</u>
5634	5922	J200
P337	J200	V10450





**SITE**

Mapped, edited, and published by the Geological Survey  
 Control by USGS, NDS/NGMA, USCE, and the city of Cincinnati  
 Topography by photogrammetric methods from aerial photographs taken 1949, and  
 in part by the city of Cincinnati. Field checked 1950 and 1953. Revised from  
 aerial photographs taken 1977. Field checked 1978. Map added 1981  
 Polyconic projection. 10,000-foot grid lines based on Kentucky coordinate system,  
 north zone, and Ohio coordinate system, south zone  
 1000-meter Universal Transverse Mercator grid, zone 16  
 1927 North American Datum  
 To place on the predicted North American Datum 1983  
 from the projection lines 3 meters south and  
 5 meters west as shown by dashed corner ticks  
 Fine red dashed lines indicate exacted fence and field lines where  
 generally visible on aerial photographs. This information is unchecked  
 Red tint indicates areas in which only landmark buildings are shown  
 Ohio area lies within the Between the Miami Land lines based on the  
 Great Miami River Base. Dotted land lines established by private  
 subdivision of the Symmes Purchase



CONTOUR INTERVAL 10 FEET  
 NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
 FOR SALE BY U. S. GEOLOGICAL SURVEY  
 DENVER, COLORADO 80225 OR RESTON, VIRGINIA 22082  
 KENTUCKY GEOLOGICAL SURVEY, LEXINGTON, KENTUCKY 40506,  
 AND KENTUCKY DEPARTMENT OF COMMERCE, FRANKFORT, KENTUCKY 40601  
 A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



Revisions shown in purple and woodland compiled in cooperation  
 with State of Kentucky agencies from aerial photographs taken 1984  
 and other sources. Contours not revised. This information not field checked  
 Map edited 1987  
 Purple tint indicates extension of urban areas

ROAD CLASSIFICATION

Primary highway, hard surface Light duty road, hard or improved surface

Secondary highway, hard surface Unimproved road

Interstate Route U. S. Route State Route

COVINGTON, KY.—OHIO  
 824 WEST CINCINNATI 17 QUADRANGLE  
 39084-A5-TF-024

1981  
 PHOTO REVISION 1987  
 DMA 4002 II BE—SERIES V453



MATTHEW G. BEVIN  
GOVERNOR

CHARLES G. SNAVELY  
SECRETARY

ENERGY AND ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF WATER  
WATER INFRASTRUCTURE BRANCH  
300 SOWER BOULEVARD  
FRANKFORT KENTUCKY 40601

May 24, 2017

Ms. Lindsey Rehtin, Acting VP of Finance & Support Services/CFO  
Northern KY Water District  
PO Box 18640  
Erlanger, KY 41018

RE: Categorical Exclusion Determination for  
Campbell and Kenton Co Water Main Replacement  
and SCADA Improvements  
Northern KY Water District  
Campbell County, Kentucky  
AI ID: 2485; PLN20170001

Dear Ms. Rehtin:

The Department for Environmental Protection, Division of Water (DOW) has reviewed the environmental document titled *Campbell and Kenton County Water Main Replacement and SCADA Improvements* dated May 15, 2017. This document has been determined to meet the requirements of the Kentucky State Environmental Review Process.

Approval of this document is hereby given based on the attached Categorical Exclusion Determination (CED) issued on May 23, 2017. This Categorical Exclusion may be revoked at any time adverse information is made available.

The applicant is not required to publish the CED but must make the determination document available for review to the public upon request.

If you have any questions regarding this Categorical Exclusion or the environmental review process, please contact us at 502-782-7026 or by e-mail to [russell.neal@ky.gov](mailto:russell.neal@ky.gov).

Sincerely,

Russell Neal, Supervisor  
Wastewater Municipal Planning  
Water Infrastructure Branch

RN/ld  
Attachments

Cc: Mr. Richard Harrison, NKWD  
Mr. Jeff Burt, NKADD



MATTHEW G. BEVIN  
GOVERNOR

CHARLES G. SNAVELY  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

AARON B. KEATLEY  
COMMISSIONER

300 SOWER BOULEVARD  
FRANKFORT, KENTUCKY 40601

**CATEGORICAL EXCLUSION DETERMINATION (CED)**  
**NKWD – Kenton and Campbell County Water Main Project**  
**Northern KY Water District**  
**Campbell County, Kentucky**  
**AI ID: 2485; PLN20170001**

The Department for Environmental Protection, Division of Water (DOW) has conducted a review of the above proposed project in accordance with the procedures contained in the State Revolving Fund Operating Agreement between the Environmental Protection Agency Region IV and the Commonwealth of Kentucky and determined this project is eligible for a categorical exclusion.

The Northern Kentucky Water District (NKWD) has applied for a loan through the 2016 Drinking Water State Revolving Fund to finance the water main replacements and SCADA improvements. The major components of the proposed project include:

- ~~Blossom Lane – Replacing approximately 4,100 L.F. of 12” water main with a new 12” water main on Blossom Lane between Alexandria Pike and Valley View Drive in Southgate.~~
- Concrete Water Main – Replacing approximately 2,250 L.F. of 36” transmission main with a new 24” water main that will run cross country in Kenton County and will run under Horsebranch Road.
- ~~Ann Street – Replacement of approximately 2,160 L.F. of 4” water main with new 8” water main on Ann Street between 8<sup>th</sup> and 12<sup>th</sup> Streets in Newport.~~
- SCADA Improvements – Includes replacing equipment for security and remote operation of the distribution system including SCADA software, programmable logic controllers, radio equipment, pressure sensors, flow monitors, and water quality analyzers.

The proposed project will provide improved water quality and system reliability to the customers of NKWD by replacing aging water lines.

The proposed project cost is estimated to be \$5,985,000 and will be funded, in part, by a low interest loan from the DWSRF (F16-027).

State Revolving Fund	\$4,000,000
Capital O&M, Bonds	\$1,985,000
Total	\$5,985,000

The project involves the functional replacement of water lines and is eligible for a categorical exclusion under the criteria specified in the Operating Agreement. The applicant solicited government agency review through the Kentucky State Clearinghouse and from other applicable federal agencies. Correspondence dated March 8, 2017, from the Kentucky State Clearinghouse (SAI#KY20160226-0173) indicated no serious local or environmental issues are anticipated. Further cross-cutter review demonstrates the environmental impacts from this project will be minimal.

- The Kentucky Heritage Council (KHC) was solicited for comments in a letter dated February 17, 2017, regarding potential impacts to cultural resources. In a response letter dated April 20, 2017, the KHC





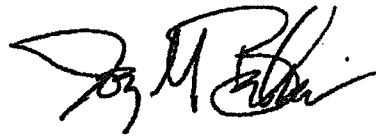
stated "We therefore recommend that the proposed water mains and SCADA improvements should result in **No Adverse Effect to Historic Properties**".

- The United States Fish and Wildlife Service (USFWS) was solicited for comments on May 5, 2017, regarding potential impacts to threatened or endangered species. The USFWS replied in correspondence stamped May 8, 2017, stating "Significant impacts to federally-listed species are not likely to result from this project as currently proposed. Project re-coordination is needed if the project changes or if new species or critical habitats are listed that could be impacted by the project.
- The Kentucky Department of Fish and Wildlife Resources (KDFWR) was also solicited for comments through the Clearinghouse process regarding potential impacts to threatened or endangered species. In the Clearinghouse response letter dated October 14, 2015, the KDFWR commented that stream erosion control measures should be in place prior to construction.
- The US Army Corps of Engineers (USACE) was solicited for comments in a letter dated February 10, 2016, regarding potential impacts to "waters of the U.S.". In a response letter dated March 17, 2016, the USACE commented that "if the project would necessitate the discharge of dredged or fill material into any "waters of the U.S.", then you should submit a Department of the Army (DA) permit application for review by this office". According to the environmental information submitted the proposed project will occur within previously disturbed areas.
- The Natural Resources Conservation Service (NRCS) was solicited for comments in a letter dated February 10, 2016, regarding potential impacts to Prime Farmland or Farmland of Statewide Importance. In a response letter dated February 19, 2016, the NRCS stated "These areas are considered as converted lands and not impacting farmland. This office has no additional concerns at this time".

Based upon the above eligibility findings, the subject categorical action is not expected to have significant environmental impact on the quality of the human environment. Therefore, the Kentucky Department for Environmental Protection, Division of Water has determined the proposed project is eligible for a categorical exclusion and is exempt from further substantive environmental review. The applicant must make a copy of the Categorical Exclusion Determination available to the public upon request.

Comments concerning this decision may be addressed to Russell Neal, Supervisor, Wastewater Municipal Planning, Water Infrastructure Branch, Division of Water, 300 Sower Boulevard, Frankfort, Kentucky 40601, or by e-mail to [russell.neal@ky.gov](mailto:russell.neal@ky.gov).

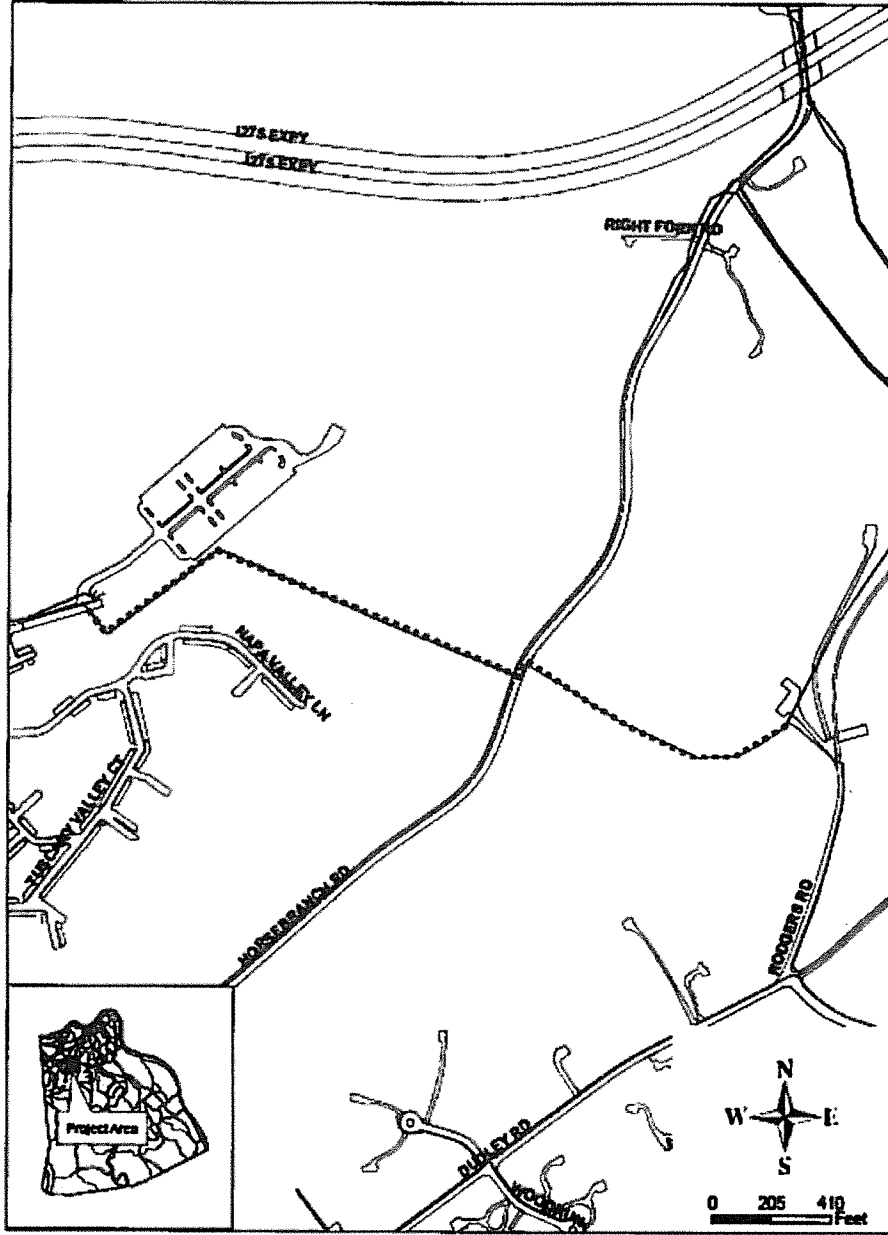
Sincerely,



For  
Peter T. Goodmann, Director  
Division of Water

RN/ld

Exhibit B- N 39 01' 22", W 84 32' 49"



## 24" Cross Country Water Main Replacement



**SCADA Improvements  
Campbell and Kenton Counties**

**KENTUCKY FEDERALLY ASSISTED  
DRINKING WATER AND CLEAN WATER STATE REVOLVING FUND  
PLANS AND SPECIFICATIONS REVIEW CHECKLIST**

Revised July 2016

Loan Recipient: Northern Kentucky Water District


Loan No.: F16-027, WX21117003 Contract ID: 24 Inch Cross-Country Water Main Replacement  
(Phase 2 of WX21117003)

Name: Kyle Ryan

Design Firm: Viox & Viox, Inc.

The information provided is accurate for the above referenced contract to the best of my knowledge and belief.

Design Engineer: William R. Viox, PE

Signature:  Date: Nov. 13, 2017

Please submit three copies of the plans and specifications with the other required construction permit forms and documents to the Division of Water. All plans and specifications must be prepared, sealed, signed and dated by a Professional Engineer licensed to practice in the state of Kentucky.

**Questions marked with (DOW) are to be completed by the Division of Water (DOW) Review Engineer.**

I have reviewed the information provided by the design engineer, verified the accuracy, and completed the (DOW) questions.

(DOW) Review Engineer: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



**KENTUCKY FEDERALLY ASSISTED  
DRINKING WATER AND CLEAN WATER STATE REVOLVING FUND  
PLANS AND SPECIFICATIONS REVIEW CHECKLIST**

Revised July 2016

**Does the eligible portion include:**

*These questions are for ALL projects*

<u>Yes</u>	<u>No</u>	<u>N/A</u>	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Demolition: Is it limited to that required for new construction?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Replacement of existing utilities: Is no "betterment" proposed?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Paving: Is it limited to the trench width and cutbacks?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Standby generators: Has justification been provided?

*These questions are for CW Projects only*

<u>Yes</u>	<u>No</u>	<u>N/A</u>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Collector sewers: Is more than 50% of the expected flow from a community constructed prior to October 18, 1972?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Property service lines: Are they limited to the "Tee or Wye" and the service line needed to reach the property line and owned by the utility?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sewer cleaning machines: Has justification been provided?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sewer line inspection television equipment: Has justification been provided?

**The following items are considered ineligible for SRF projects. Are any of these included in the specifications?**

*These questions are for ALL projects*

<u>Yes</u>	<u>No</u>	<u>N/A</u>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Bonus payments?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Immediately available hand tools?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mowers, snow blowers, trimmers?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Replacement of facilities previously funded by EPA or SRF, which are still within the useful life unless EPA or SRF has approved abandonment?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Redundant facilities (unless required by state or federal reliability requirements)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Routine maintenance items (oil, grease, filters, etc.)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Utility vehicles/golf carts?

List all SRF loan ineligible items in the project:

None

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**KENTUCKY FEDERALLY ASSISTED  
DRINKING WATER AND CLEAN WATER STATE REVOLVING FUND  
PLANS AND SPECIFICATIONS REVIEW CHECKLIST**

Revised July 2016

**General**

*These questions are for ALL projects*

<u>Yes</u>	<u>No</u>	<u>N/A</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1a. Are permits to construct required from other Federal or State Agencies? If yes, indicate which Agencies.

National Pollutant Discharge Elimination System (NPDES) Notice of Intent (NOI) Construction General Permit (CGP)

---

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

1b. Have the required permits been issued? Provide the DOW with copies.

1c. Have the required permits been applied for?

2. If the project includes work that will cumulatively disturb more than 200 linear feet of a blue line stream as shown on a USGS 7.5-min. topographic map, has an application for 401 Certification been submitted to the DOW Water Quality Section?

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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3. If the project involves construction within a floodplain, including stream crossings, has an application for the appropriate permits been submitted to the DOW Floodplain Management Section?

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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4. If the loan recipient has requested to buy equipment and be exempt from sales tax, are the specifications written to accommodate this?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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5. Have all required easements been obtained?

NOTE: Clear Site Certificate is required before construction starts.

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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6. If this project is a result of a DOW enforcement action, have all mandated construction related activities been addressed in the scope of work for this project? Notify the Division of Enforcement.

*These questions are for DW Projects only*

<u>Yes</u>	<u>No</u>	<u>N/A</u>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

7. Are electric motors and components above the 100-year flood elevation?

8. Are buildings protected from the 100-year flood and usable at the 25-year flood level?

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

9. Does this project eliminate any existing water treatment plants?

10a. If this proposed project includes a sludge lagoon system has the DOW Groundwater Section been contacted regarding the need for a Groundwater Protection Plan (GWPP)?

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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10b. Is a GWPP required? Provide copies of correspondence.

**KENTUCKY FEDERALLY ASSISTED  
DRINKING WATER AND CLEAN WATER STATE REVOLVING FUND  
PLANS AND SPECIFICATIONS REVIEW CHECKLIST**

Revised July 2016

*These questions are for **CW** Projects only*

- | <u>Yes</u>               | <u>No</u>                | <u>N/A</u>               |  |
|--------------------------|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 11. Does this design meet the 401 KAR 5:005, Section 13 reliability requirements?  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 12. Has the design engineer provided demonstration of how the design meets the reliability requirements? This shall include calculations, which indicate that the permit limits can be met with the largest unit of each process out of service during times of anticipated cleaning and repair. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 13. Does this project eliminate any existing wastewater treatment plants?  |

*These questions are for the **DOW** Review Engineer to answer*

- | <u>Yes</u>               | <u>No</u>                | <u>N/A</u>               |  |
|--------------------------|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 14. Does the DOW review engineer concur with the description of SRF ineligible items?  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 15. Are the plans and specifications sealed, signed, and dated by a professional engineer?   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 16a. Has the DOW written or issued an Environmental Statement (Environmental Impact Statement (EIS), Categorical Exclusion Document (CED), or a Finding of No Significant Impact (FONSI))? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 16b. Is the scope of the SRF project identified in the plans and specifications consistent with the Environmental Statement?   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 17. Has a site certificate been received?<br>NOTE: Clear Site Certificate is required before construction starts.  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 18. Does the WWTP discharge to a blue line stream or are easements provided to a blue line stream?   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 19. Is the discharge from the WWTP within five miles upstream of a water plant intake?   |



**KENTUCKY FEDERALLY ASSISTED  
DRINKING WATER AND CLEAN WATER STATE REVOLVING FUND  
PLANS AND SPECIFICATIONS REVIEW CHECKLIST**

Revised July 2016

**Clearinghouse Comments**

*These questions are for ALL projects*

<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>The Recipient has:</u>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1a. Obtained Kentucky Department of Transportation encroachment permits?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1b. Has applied for Kentucky Department of Transportation encroachment permits?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Has assigned a place in the Contract Documents for Wage Determinations for federal and state wage rates? NOTE: The Kentucky Labor Cabinet must be contacted for Wage Determinations when the Advertising Date is known. Davis-Bacon Wage Determinations may have to be added by Addendum if they change while the project is advertised.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. If state labor laws apply, do specifications indicate overtime pay is required for work in excess of an 8-hour day?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. If sludge is to be disposed of in a landfill, has the landfill operator provided a letter of intent?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. If sludge is to be land-farmed, has Division of Waste Management approved the proposed site? (Note: Submit copy of approval letter.)

*This question is for CW Projects only*

<u>Yes</u>	<u>No</u>	<u>N/A</u>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8. If land farming is proposed, does WWTP include a process to significantly reduce pathogens (PSRP)?

**Proposal**

*These questions are for ALL projects*

<u>Yes</u>	<u>No</u>	<u>N/A</u>	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1. Have SRF eligible and ineligible items been separated?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Time of completion <u>120</u> days.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. If the contract allows for substitution of equipment, is the method for determining the low bidder clearly indicated?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. Has a base bid and any alternatives been specified?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. Are there any special conditions on evaluating lump sum contract? Please specify: _____ _____

**KENTUCKY FEDERALLY ASSISTED  
DRINKING WATER AND CLEAN WATER STATE REVOLVING FUND  
PLANS AND SPECIFICATIONS REVIEW CHECKLIST**

Revised July 2016

**Environmental Considerations**

*These questions are for CW Projects only*

- | <u>Yes</u>               | <u>No</u>                | <u>N/A</u>               |   |
|--------------------------|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. If the project includes a proposed WWTP, is it located within 200 feet of any present or future residence? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. Have provisions been made to prevent by-passing during construction?                                       |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. If a construction permit is not necessary, has a reason been provided for not needing one?                 |

*These questions is for the DOW Review Engineer to answer*

- | <u>Yes</u>               | <u>No</u>                | <u>N/A</u>               |  |
|--------------------------|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4. If bypass is proposed, have we coordinated with the DOW Regional Office or EPA Facilities Performance Branch, whichever is applicable?  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5. If the project includes an increase in WWTP capacity, modifications due to a change in effluent limits, or relocation of the discharge point have both a construction permit application and a KPDES permit application been submitted?<br>NOTE: KPDES permit must be submitted before a construction permit and Authorization to Bid is issued |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. Is the reason for not needing a construction permit justified by 401 KAR 5:005?   |

**KENTUCKY FEDERALLY ASSISTED  
DRINKING WATER AND CLEAN WATER STATE REVOLVING FUND  
PLANS AND SPECIFICATIONS REVIEW CHECKLIST**

Revised July 2016

**SPECIFICATIONS AND CONTRACT DOCUMENTS**

<u>Yes</u>	<u>No</u>	<u>N/A</u>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Have the specifications been prepared in accordance with Section 204 (a) (6) of P.L. 92-500? (Listing of one brand name followed by or equal).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Are bid schedules written to not lead bidders and suppliers to believe that there is only one brand permitted for bidding the project?

**NOTE:** (DOW) column on the left is for DOW Review Engineer verification. Design Engineer must list the sections and page numbers for all items. Not completing these items is a reason for this project to receive a Notice of Deficiency.

**INVITATION TO BID OR ADVERTISEMENT**

<b>(DOW)</b>	Section	Page	
<input type="checkbox"/>	<u>00020</u>	<u>1</u>	1. Time and place of Bid Opening
<input type="checkbox"/>	<u>00020</u>	<u>1</u>	2. Where plans and specs may be obtained
<input type="checkbox"/>	<u>00020</u>	<u>1</u>	3. Work to be performed
<input type="checkbox"/>	<u>00020</u>	<u>2</u>	4. A statement bidders must comply with Title VI of the Civil Rights Act of 1964, the Anti-Kickback Act, and the Contract Work Hours Standard Act
<input type="checkbox"/>	<u>00020</u>	<u>2</u>	5. A statement that bidders must comply with the President's Executive Order No. 11246 as amended, which prohibits discrimination in employment regarding race, creed, color, sex or national origin
<input type="checkbox"/>	<u>00020</u>	<u>2</u>	6. This project will be in compliance with Executive Order 11246 (Equal Employment Opportunity) as amended
<input type="checkbox"/>	<u>00020</u>	<u>2</u>	7. A statement that the Contractor/Subcontractor will comply with 41 CFR 60-4, in regard to affirmative action, to insure equal opportunity to females and minorities and will apply the time tables and goals set forth in 41 CFR 60-4
<input type="checkbox"/>	<u>00020</u>	<u>2</u>	8. A statement that the bidder will make positive efforts to use small, minority, women owned and disadvantaged businesses
<input type="checkbox"/>	<u>00020</u>	<u>2</u>	9. A statement that this procurement will be subject to DOW Procurement Guidance including the Davis-Bacon Act
<input type="checkbox"/>	<u>00020</u>	<u>2</u>	10. A statement that the contract is being funded in part with a SRF loan
<input type="checkbox"/>	<u>00020</u>	<u>3</u>	11. A statement that the award will be made to the lowest, responsive, responsible bidder

**KENTUCKY FEDERALLY ASSISTED  
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**INSTRUCTIONS TO BIDDERS, GENERAL AND SPECIAL CONDITIONS**

<b>(DOW)</b>	Section	Page	
<input type="checkbox"/>	<u>00100</u>	<u>3</u>	1. Bid Bond Requirements (5% for Contracts over \$100,000)
<input type="checkbox"/>	<u>00810</u>	<u>36</u>	2. 100% Performance Bond and 100% Payment Bond for contracts over \$100,000. Single Payment and Performance Bonds may be used for contracts under \$100,000. Performance Bond must be valid for one year beyond date of acceptance of the completed project.
<input type="checkbox"/>	<u>00100</u>	<u>6-8</u>	3. Method of Award (to the low responsive, responsible bidder unless all bids are rejected). Refer to 40 CFR 31.36(d). All bids shall not be rejected without proper justification.
<input type="checkbox"/>	<u>00100</u>	<u>7</u>	4. Basis for determining responsiveness and responsibility of low bidder
<input type="checkbox"/>	<u>00500</u>	<u>1</u>	5. Contract Time: <u>120</u> days
<input type="checkbox"/>	<u>00500</u>	<u>1-2</u>	6. Liquidated Damages: <u>\$500</u> dollars per day
<input type="checkbox"/>	<u>00700</u>	<u>23</u>	7. Criteria that are used to evaluate proposed "equal" products
<input type="checkbox"/>	<u>00700</u>	<u>17-18</u>	8. Workmen's Compensation Insurance
<input type="checkbox"/>	<u>00700</u>	<u>17-18</u>	9. Public Liability Insurance
<input type="checkbox"/>	<u>00700</u>	<u>19</u>	10. Fire and extended coverage insurance (Builders Risk)
<input type="checkbox"/>	<u>00810</u>	<u>3</u>	11. Reasonable care shall be taken during construction to avoid damage to vegetation. Ornamental shrubbery and tree branches shall be temporarily tied back, where appropriate, to minimize damage. Trees that receive damage to branches shall be trimmed of those branches to improve the appearance of the tree. Tree trunks receiving damage from equipment shall be treated with a tree dressing.
<input type="checkbox"/>	<u>00810</u>	<u>18</u>	12. Compliance with OSHA (P.L. 91-596) and the Contract Work Hours and Safety Standards Act (P.L. 91-54)
<input type="checkbox"/>	<u>00810</u>	<u>3</u>	13. A statement that change orders to the construction contract must comply with DOW Procurement Guidance for Construction and Equipment Contracts
<input type="checkbox"/>	<u>00810</u>	<u>3</u>	14. Does the contract require cost, pricing, and certification for change orders exceeding \$100,000 as required by DOW Procurement Guidance for Construction and Equipment Contracts?
<input type="checkbox"/>	<u>00700</u>	<u>23</u>	15. Does the contract require that the contractor provide project construction and payment schedules?

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(DOW)	Section	Page	
<input type="checkbox"/>	<u>00020</u>	<u>2</u>	16. Compliance with Title VI of the Civil Rights Act of 1964, the Anti-Kickback Act and the contract Work Hours Standards Act
<input type="checkbox"/>	<u>00500</u>	<u>3</u>	17. Provisions for timely periodic payments and for limiting retainage (40 CFR 31.36)
<input type="checkbox"/>	<u>00800</u>	<u>11</u>	18. Provision to obtain a Section 404 permit from the Corps of Engineers, if applicable
<input type="checkbox"/>	<u>01500</u>	<u>8</u>	19. A statement in regard to minimizing siltation and soil erosion during construction

*This question is for CW Projects only*

- \_\_\_\_\_ 20. A statement that no wastewater by-passing will occur during construction unless a schedule has been approved by the State and/or by EPA/NEPA permit if required

**American Iron and Steel Requirement (AIS)**

*These questions are for ALL projects*

- |                                     |                          |                          |  |
|-------------------------------------|--------------------------|--------------------------|--|
| <u>Yes</u>                          | <u>No</u>                | <u>N/A</u>               |  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. Are any of the following included in the project? Please indicate which apply:  |
|                                     |                          |                          | <input checked="" type="checkbox"/> Lined or unlined pipes or fittings   |
|                                     |                          |                          | <input type="checkbox"/> Manhole Covers  |
|                                     |                          |                          | <input type="checkbox"/> Municipal Castings (defined in more detail on page 11)*   |
|                                     |                          |                          | <input checked="" type="checkbox"/> Hydrants   |
|                                     |                          |                          | <input type="checkbox"/> Tanks   |
|                                     |                          |                          | <input type="checkbox"/> Flanges   |
|                                     |                          |                          | <input checked="" type="checkbox"/> Pipe clamps and restraints   |
|                                     |                          |                          | <input checked="" type="checkbox"/> Valves (EPA considers only the significant iron and steel components of a covered valve or hydrant– the body, bonnet, shoe, stem, and wedge/disc/gate/ball – to be within the definition of "iron and steel products") |
|                                     |                          |                          | <input type="checkbox"/> Structural steel (defined in more detail on page 11) **   |
|                                     |                          |                          | <input type="checkbox"/> Reinforced precast concrete   |
|                                     |                          |                          | <input type="checkbox"/> Construction materials (defined in more on page 11) ***   |

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Yes      No      N/A  
           

2. Will the Iron and Steel components for the items above or for construction, alteration, maintenance or repair of a Public Water System or Treatment Works be manufactured in the United States? *The term "iron and steel products" means the following products made primarily of iron or steel: lined or unlined pipes and fittings, manhole covers and other municipal castings, hydrants, tanks, flanges, pipe clamps and restraints, valves, structural steel, reinforced precast concrete, and construction materials.*

3. Are any waivers of the American Iron and Steel being requested? (Only EPA can issue waivers to authorize the use of a non-domestic item. If you answered item 1 yes and item 2 no, your project is NOT eligible for SRF funding. Please contact Greg Goode or Mark Rasche at the DOW at (502) 564-3410.

4. Contracts must contain the following clause requiring compliance with the AIS requirements provided at the top of page 11. †  
 Please indicate page number containing the AIS clause Section 00810 Page 58

*†The Contractor acknowledges to and for the benefit of the City of \_\_\_\_\_ ("Purchaser") and the \_\_\_\_\_ (the "State") that it understands the goods and services under this Agreement are being funded with monies made available by the Clean Water State Revolving Fund and/or Drinking Water State Revolving Fund that have statutory requirements commonly known as "American Iron and Steel;" that requires all of the iron and steel products used in the project to be produced in the United States ("American Iron and Steel Requirement") including iron and steel products provided by the Contactor pursuant to this Agreement. The Contractor hereby represents and warrants to and for the benefit of the Purchaser and the State that (a) the Contractor has reviewed and understands the American Iron and Steel Requirement, (b) all of the iron and steel products used in the project will be and/or have been produced in the United States in a manner that complies with the American Iron and Steel Requirement, unless a waiver of the requirement is approved, and (c) the Contractor will provide any further verified information, certification or assurance of compliance with this paragraph, or information necessary to support a waiver of the American Iron and Steel Requirement, as may be requested by the Purchaser or the State. Notwithstanding any other provision of this Agreement, any failure to comply with this paragraph by the Contractor shall permit the Purchaser or State to recover as damages against the Contractor any loss, expense, or cost (including without limitation attorney's fees) incurred by the Purchaser or State resulting from any such failure (including without limitation any impairment or loss of funding, whether in whole or in part, from the State or any damages owed to the State by the Purchaser). While the Contractor has no direct contractual privity with the State, as a lender to the Purchaser for the funding of its project, the Purchaser and the Contractor agree that the State is a third-party beneficiary and neither this paragraph (nor any other provision of this Agreement necessary to give this paragraph force or effect) shall be amended or waived without the prior written consent of the State.*

**\*Municipal castings** are cast iron or steel infrastructure products that are melted and cast. They typically provide access, protection, or housing for components incorporated into utility owned drinking water, storm water, wastewater, and surface infrastructure. They are typically made of grey or ductile iron, or steel. Examples of municipal castings are: Access Hatches; Ballast Screen; Benches (Iron or Steel); Bollards; Cast Bases; Cast Iron Hinged Hatches, Square and Rectangular; Cast Iron Riser Rings; Catch Basin Inlet; Cleanout/Monument Boxes; Construction Covers and Frames; Curb and Corner Guards; Curb Openings; Detectable Warning Plates; Downspout Shoes (Boot, Inlet); Drainage

**KENTUCKY FEDERALLY ASSISTED  
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Grates, Frames and Curb Inlets; Inlets; Junction Boxes; Lampposts; Manhole Covers, Rings and Frames, Risers; Meter Boxes; Service Boxes; Steel Hinged Hatches, Square and Rectangular; Steel Riser Rings; Trash receptacles; Tree Grates; Tree Guards; Trench Grates; Valve Boxes, Covers and Risers.

**\*\*Structural steel** is rolled flanged shapes, having at least one dimension of their cross-section three inches or greater, which are used in the construction of bridges, buildings, ships, railroad rolling stock, and for numerous other constructional purposes. Such shapes are designated as wide-flange shapes, standard I-beams, channels, angles, tees and zees. Other shapes include H-piles, sheet piling, tie plates, cross ties, and those for other special purposes.

**\*\*\*Construction materials** are those articles, materials, or supplies made primarily of iron and steel, that are permanently incorporated into the project, not including mechanical and/or electrical components, equipment and systems. Some of these products may overlap with what is also considered "structural steel". This includes, but is not limited to, the following products: wire rod, bar, angles, concrete reinforcing bar, wire, wire cloth, wire rope and cables, tubing, framing, joists, trusses, fasteners (i.e., nuts and bolts), welding rods, decking, grating, railings, stairs, access ramps, fire escapes, ladders, wall panels, dome structures, roofing, ductwork, surface drains, cable hanging systems, manhole steps, fencing and fence tubing, guardrails, doors, and stationary screens.

*NOTE: Mechanical and electrical components, equipment and systems are not considered construction materials.*

*Mechanical equipment is typically that which has motorized parts and/or is powered by a motor. Electrical equipment is typically any machine powered by electricity and includes components that are part of the electrical distribution system.*

**Fiscal Sustainability & Cost and Effectiveness (CWSRF Only)**

Loan recipients with CWSRF projects with a SRF application submitted on or after October 1, 2014 (Fiscal Sustainability) and/or October 1, 2015 (Cost Effectiveness) are required to develop a Fiscal Sustainability Plan and/or perform a Cost and Effectiveness Analysis for the proposed project. Guidance for these requirements can be found at: <https://www.epa.gov/cwsrf/water-resources-reform-and-development-act-wrrda-guidance-clean-water-state-revolving-fund>. To demonstrate compliance, the loan recipient is required to submit certification to the DOW that these requirements have been met which can be found at <http://kia.ky.gov/loan/forms.htm>.

Yes      No      N/A

                 1. Was the CWSRF loan application submitted after October 1, 2015 (DOW is using the KIA Board date as the submittal date)? If No, when?

                 1. Has a Fiscal Sustainability Plan Self Certification been attached as required?

                 1. Has a Cost & Effectiveness Self Certification been attached as required?

**SUPPLEMENTAL GENERAL CONDITIONS**

Have the Supplemental General Conditions (Feb 2016) been included in the specifications?

Yes

If not, has the required wording/information from the referenced attachments been included?

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*These questions are for the **DOW** Review Engineer to answer*

Yes      No      N/A

- |                          |                          |                          |    |  |
|--------------------------|--------------------------|--------------------------|----|--|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. | Have the technical specifications been written to assure the maximum competition? <ol style="list-style-type: none"><li>a. No unjustified experience clause (over five years, excessive construction for a time period).</li><li>b. Use of brand name or equal in specifications.</li><li>c. If manufacturers are listed on the bid schedule, at least three manufacturers should be listed (may ask for manufacturer if manufacturer names are not listed on bid schedule).</li></ol> |
|--------------------------|--------------------------|--------------------------|----|--|



**KENTUCKY FEDERALLY ASSISTED  
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**DOW Review Engineer, forward Pages 13, 14, 15, and 16  
and give to SRF & SPAP Section Project Administrator**

Note: The consultant must complete this section for each contract. If not applicable, complete where appropriate and explain.

**AREAS OF WORK – DISADVANTAGED BUSINESS ENTERPRISE**

Loan Recipient: Northern Kentucky Water District Loan No.: F16-027, WX21117003

Project Name: 24 Inch Cross-Country Water Main Replacement (Phase 2 of WX21117003)

Utility: Northern Kentucky Water District

Contact Person: Kyle Ryan

Address: 2835 Crescent Springs Road, Erlanger, Kentucky 41018

Phone No: 859-426-2713

Consultant: Viox & Viox, Inc.

Contact Person: William R. Viox, PE

Address: 466 Erlanger Road, Erlanger, KY 41018

Phone No.: 859-727-3293

Contract No./Type: Water Lines Estimated Bid Date: February 2018

This contract will include the following work:

**General Construction**

	<u>Check if Included</u>	<u>Estimated Cost</u>
Backhoe	<input type="checkbox"/>	\$ _____
Concrete Construction	<input type="checkbox"/>	\$ _____
Concrete Finishers	<input type="checkbox"/>	\$ _____
Demolition	<input type="checkbox"/>	\$ _____
Excavating	<input type="checkbox"/>	\$ _____

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	<u>Check if Included</u>	<u>Estimated Cost</u>
General Construction	<input type="checkbox"/>	\$ _____
Material Haulers	<input type="checkbox"/>	\$ _____
Seeding	<input checked="" type="checkbox"/>	\$ <u>\$75,000</u>
Sodding	<input type="checkbox"/>	\$ _____
Surveyors	<input type="checkbox"/>	\$ _____
Pipe Layers	<input type="checkbox"/>	\$ _____

**Building Construction**

	<u>Check if Included</u>	<u>Estimated Cost</u>
Drywall	<input type="checkbox"/>	\$ _____
Electrical Contractors	<input type="checkbox"/>	\$ _____
Flooring	<input type="checkbox"/>	\$ _____
HVAC	<input type="checkbox"/>	\$ _____
Insulation	<input type="checkbox"/>	\$ _____
Landscaping	<input type="checkbox"/>	\$ _____
Masonry	<input type="checkbox"/>	\$ _____
Painting Contractors	<input type="checkbox"/>	\$ _____
Plaster	<input type="checkbox"/>	\$ _____
Plumbing	<input type="checkbox"/>	\$ _____
Roofing	<input type="checkbox"/>	\$ _____
Sandblasting	<input type="checkbox"/>	\$ _____
Sprinkler System Installation	<input type="checkbox"/>	\$ _____
Wiring	<input type="checkbox"/>	\$ _____

**Roadway Construction**

	<u>Check if Included</u>	<u>Estimated Cost</u>
Asphalt Removal	<input type="checkbox"/>	\$ _____
Guardrail Work	<input type="checkbox"/>	\$ _____
Roadway and Right-of-Way Work	<input type="checkbox"/>	\$ _____

**KENTUCKY FEDERALLY ASSISTED  
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**Water Line Construction**

	<u>Check if Included</u>	<u>Estimated Cost</u>
Pipe Fabrication	<input type="checkbox"/>	\$ _____
PVC or D.I. Pipe Supplier	<input checked="" type="checkbox"/>	\$ 200,000 _____
Water Line Work	<input checked="" type="checkbox"/>	\$ 1,444,050 _____
Water Valve Supplier	<input checked="" type="checkbox"/>	\$ 15,000 _____
Fire Hydrant Supplier	<input checked="" type="checkbox"/>	\$ 3,000 _____

**Sewer Construction**

	<u>Check if Included</u>	<u>Estimated Cost</u>
Pipe Fabrication	<input type="checkbox"/>	\$ _____
PVC Sewer Pipe Supplier	<input type="checkbox"/>	\$ _____
Storm and Sewer Line Work	<input type="checkbox"/>	\$ _____

**Specialized Construction**

	<u>Check if Included</u>	<u>Estimated Cost</u>
Asbestos Removal	<input type="checkbox"/>	\$ _____
Installation of Alarm Systems	<input type="checkbox"/>	\$ _____
Safety Equipment Installation	<input type="checkbox"/>	\$ _____
Steel Erecting and Tying	<input type="checkbox"/>	\$ _____
Installation of Telemetry	<input type="checkbox"/>	\$ _____

**Supplier**

	<u>Check if Included</u>	<u>Estimated Cost</u>
Construction Equipment Sales	<input type="checkbox"/>	\$ _____
Glass Suppliers and Glazing	<input type="checkbox"/>	\$ _____
Industrial Chemical Suppliers	<input type="checkbox"/>	\$ _____
Industrial Equipment Suppliers	<input type="checkbox"/>	\$ _____
Manufacturer - canopies, aluminum windows, and aluminum handrails	<input type="checkbox"/>	\$ _____
Plumbing Suppliers	<input type="checkbox"/>	\$ _____

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	<u>Check if Included</u>	<u>Estimated Cost</u>
Sheet Metal Manufacturer	<input type="checkbox"/>	\$ _____
Steel Fabrication	<input type="checkbox"/>	\$ _____
Steel Supplier	<input type="checkbox"/>	\$ _____
Trucking	<input type="checkbox"/>	\$ _____
Water Treatment Chemicals and Equipment	<input type="checkbox"/>	\$ _____
Window Replacements	<input type="checkbox"/>	\$ _____

Given the nature of the scope of work of this contract, is a DBE participation of 3 and 5 percent achievable?

Yes       No

DOW will send this checklist to the following agencies:

KPAP  
Community Development Office  
Cabinet for Economic Development  
Capital Plaza Tower  
Frankfort, Kentucky 40601

Office for Civil Rights & Small Business Development  
Department of Transportation  
200 Mero Street  
Frankfort, Kentucky. 40622

For Projects West of Elizabethtown:  
Minority Economic Development Initiative  
Hopkinsville-Christian County Economic Development Council  
2800 Fort Campbell Boulevard  
Hopkinsville, Kentucky 42240  
Attn: Director

NORTHERN KENTUCKY  
WATER DISTRICT

*Project*

*24-inch Cross-Country Water Main*  
*Replacement Project,*  
*Edgewood/Crestview Hills,*  
*Kenton County, Kentucky*

184-0776

Plans titled “24-Inch Cross-Country Water Main Replacement {Rogers Road to Center View Blvd.} Phase 2 of WX21117003, Edgewood/Crestview Hills, Kentucky” dated August 2018, sealed by a P.E.

And

Specifications titled “24-Inch Cross-Country Water Main Replacement {Rogers Road to Center View Blvd.} Phase 2 of WX21117003, Edgewood/Crestview Hills, Kentucky” dated August 2018, sealed by a P.E.

See separate attached documents

NORTHERN KENTUCKY  
WATER DISTRICT

*Project*

*24-inch Cross-Country Water Main  
Replacement Project,  
Edgewood/Crestview Hills,  
Kenton County, Kentucky*

184-0776

CERTIFIED STATEMENTS

Affidavit

Franchises

Plan Review and Permit Status

Easements and Right-of-Way Status

Construction Dates and Proposed Date In Service

Plant Retirements

State Debt Officer Notification

NORTHERN KENTUCKY  
WATER DISTRICT

*Project*

*24-inch Cross-Country Water Main*  
*Replacement Project,*  
*Edgewood/Crestview Hills,*  
*Kenton County, Kentucky*

184-0776

Affidavit



**AFFIDAVIT**

**24-inch Cross-Country Water Main Replacement Project, Edgewood/Crestview Hills, Kenton County, Kentucky**

Affiant, Lindsey Rechten, being the first duly sworn, deposes and says that she is the Vice President of Finance and Support Services of the Northern Kentucky Water District, which she is the Applicant in the proceeding styled above; that she has read the foregoing "24-inch Cross-Country Water Main Replacement Project, Edgewood/Crestview Hills, Kenton County, Kentucky." Application and knows the contents thereof, and that the same is true of her own knowledge, except as to matters which are therein stated on information or belief, and that is to those matters she believes them to be true.



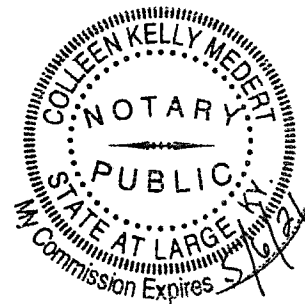
Lindsey Rechten  
Vice President - Finance & Support Services  
Northern Kentucky Water District

Subscribed and sworn to before me in said County to be her act and deed by  
Lindsey Rechten, Vice President of Finance & Support Services of the Northern  
Kentucky Water District, this

27th day of SEPTEMBER 2018.



NOTARY PUBLIC  
Kenton County, Kentucky  
My commission expires May 6, 2021



NORTHERN KENTUCKY  
WATER DISTRICT

*Project*

*24-inch Cross-Country Water Main  
Replacement Project,  
Edgewood/Crestview Hills,  
Kenton County, Kentucky*

184-0776

Franchises

Plan Review and Permit Status

Easements and Right-of-Way Status

Construction Dates and Proposed Date In Service

Plant Retirements

# Northern Kentucky Water District

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Franchises required – None

Plan Review and Permit Status - The District has reviewed and approved the Plans and Specifications prepared by Viox & Viox titled “24-Inch Cross-Country Water Main Replacement {Rogers Road to Center View Blvd.} Phase 2 of WX21117003, Edgewood/Crestview Hills, Kentucky” dated August 2018, sealed by a P.E.

See attached permit letters for:

- Kentucky Division of Water on February 12, 2018
- City of Crestview Hills Right-of-way Encroachment Permit on Sept. 8, 2018
- Sanitation District #1 Grading Permit on June 22, 2018.
- Fish & Wildlife

Easements and Right-of-Way Status –Easements are needed for this project and all have been secured

PIDN – 029-40-10-005.00

PIDN – 043-00-00-051.00

PIDN – 029-40-00-003.00

PIDN – 029-10-00-001.37

PIDN – 029-40-00-001.10

PIDN – 029-40-00-001.40

Start date of construction – January 2019

Proposed date in service – May 2019

Plant retirements – There are no retirements as a result of this project.

NORTHERN KENTUCKY  
WATER DISTRICT

*Project*

*24-inch Cross-Country Water Main  
Replacement Project,  
Edgewood/Crestview Hills,  
Kenton County, Kentucky*

184-0776

PLAN REVIEW AND PERMIT STATUS

Approval Letter from Kentucky Division of Water

City of Crestview Hills Right of Way Encroachment Permit

SD1 Grading Permit

Fish & Wildlife

MATTHEW G. BEVIN  
GOVERNOR



CHARLES G. SNAVELY  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

AARON B. KEATLEY  
COMMISSIONER

300 SOWER BOULEVARD  
FRANKFORT, KENTUCKY 40601

February 12, 2018

Mr. Kyle Ryan,  
Northern KY Water District  
2835 Crescent Springs Rd  
Erlanger, KY 41018

RE: 24" Cross Country WM Replacement Ph. 2  
Campbell County, KY  
Northern KY Water District  
AI #: 2485, APE20170013  
PWSID #: 0590220-17-013

Dear Mr. Ryan:

We have reviewed the plans and specifications for the above referenced project. The plans include the construction of approximately 2,640 LF of 24-inch and 10 LF of 8-inch DI water line replacement. This is to advise that plans and specifications for the above referenced project are APPROVED with respect to sanitary features of design, as of this date with the requirements contained in the attached construction permit.

Based on DOW records, this project is being funded by a State Revolving Fund (SRF) loan. Therefore, this approval is for the technical aspects of the project only. Currently, an environmental review related to this project is pending. **Therefore, you are NOT authorized to advertise for bids at this time. Should you choose to proceed with the bidding and award a contract prior to DOW approval, this will be at your own risk and payment from the SRF program is not guaranteed.**

If you have any questions concerning this project, please contact Mr. Abbas Pourghasemi at 502-782-7041.

Sincerely,

A handwritten signature in black ink, appearing to read "T. Humphries".

Terry Humphries, P.E.  
Supervisor, Engineering Section  
Water Infrastructure Branch  
Division of Water

TH:AP  
Enclosures

C: Viox & Voix Inc  
Campbell County Health Department  
Division of Plumbing



## Distribution-Water Line Extension

Northern KY Water District

Facility Requirements

Activity ID No.:APE20170013

Page 1 of 4

### PORT000000277 (24" Cross Country Water Main Replacement Phase 2) 2,640 LF of 24-inch and 10 LF of 8-inch DI water line replacement:

#### Narrative Requirements:

---

Condition No.	Condition
T-1	Construction of this project shall not result in the water system's inability to supply consistent water service in compliance with 401 KAR 8:010 through 8:600. [401 KAR 8:100 Section 5]
T-2	The public water system shall not implement a change to the approved plans without the prior written approval of the cabinet. [401 KAR 8:100 Section 4(3)]
T-3	A proposed change to the approved plans affecting sanitary features of design shall be submitted to the cabinet for approval in accordance with Section 2 of this administrative regulation. [401 KAR 8:100 Section 4(2)]
T-4	During construction, a set of approved plans and specifications shall be available at the job site. Construction shall be performed in accordance with the approved plans and specifications. [401 KAR 8:100 Section 3(1)]
T-5	Unless construction begins within two (2) years from the date of approval of the final plans and specifications, the approval shall expire. [401 KAR 8:100 Section 3(3)]
T-6	Upon completion of construction, a professional engineer shall certify in writing that the project has been completed in accordance with the approved plans and specifications. [401 KAR 8:100 Section 4(1)]
T-7	The system shall be designed to maintain a minimum pressure of 20 psi at ground level at all points in the distribution system under all conditions of flow. [Recommended Standards for Water Works 8.2.1, Drinking Water General Design Criteria IV.1.a]
T-8	Water lines should be hydraulically capable of a flow velocity of 2.5 ft/s while maintaining a pressure of at least 20 psi. [Drinking Water General Design Criteria IV.1.b]
T-9	The normal working pressure in the distribution system at the service connection shall not be less than 30 psi under peak demand flow conditions. Peak demand is defined as the maximum customer water usage rate, expressed in gallons per minute (gpm), in the pressure zone of interest during a 24 hour (diurnal) time period. [Drinking Water General Design Criteria IV.1.d]
T-10	When static pressure exceeds 150 psi, pressure reducing devices shall be provided on mains or as part of the meter setting on individual service lines in the distribution system. [Drinking Water General Design Criteria IV.1.c]
T-11	The minimum size of water main in the distribution system where fire protection is not to be provided should be a minimum of three (3) inch diameter. Any departure from minimum requirements shall be justified by hydraulic analysis and future water use, and can be considered only in special circumstances. [Recommended Standards for Water Works 8.2.2, Drinking Water General Design Criteria IV.2.b]

## Distribution-Water Line Extension

Northern KY Water District

Facility Requirements

Activity ID No.:APE20170013

Page 2 of 4

### PORT000000277 (24" Cross Country Water Main Replacement Phase 2) 2,640 LF of 24-inch and 10 LF of 8-inch DI water line replacement:

#### Narrative Requirements:

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Condition No.	Condition
T-12	Water mains not designed to carry fire-flows shall not have fire hydrants connected to them. [Recommended Standards for Water Works 8.4.1.b]
T-13	Flushing devices should be sized to provide flows which will give a velocity of at least 2.5 feet per second in the water main being flushed. [Recommended Standards for Water Works 8.2.4.b, Recommended Standards for Water Works 8.4.1.b]
T-14	No flushing device shall be directly connected to any sewer. [Recommended Standards for Water Works 8.2.4.b, Recommended Standards for Water Works 8.4.1.b]
T-15	Pipe shall be constructed to a depth providing a minimum cover of 30 inches to top of pipe. [Drinking Water General Design Criteria IV.3.a]
T-16	Water mains shall be covered with sufficient earth or other insulation to prevent freezing. [Recommended Standards for Water Works 8.7]
T-17	A continuous and uniform bedding shall be provided in the trench for all buried pipe. Backfill material shall be tamped in layers around the pipe and to a sufficient height above the pipe to adequately support and protect the pipe. Stones found in the trench shall be removed for a depth of at least six inches below the bottom of the pipe. [Recommended Standards for Water Works 8.7]
T-18	Water line installation shall incorporate the provisions of the AWWA standards and/or manufacturer's recommended installation procedures. [Recommended Standards for Water Works 8.7]
T-19	All materials used for the rehabilitation of water mains shall meet ANSI/NSF standards. [Recommended Standards for Water Works 8.1]
T-20	Packing and jointing materials used in the joints of pipe shall meet the standards of AWWA and the reviewing authority. [Recommended Standards for Water Works 8.1]
T-21	All tees, bends, plugs and hydrants shall be provided with reaction blocking, tie rods or joints designed to prevent movement. [Recommended Standards for Water Works 8.7]
T-22	All materials including pipe, fittings, valves and fire hydrants shall conform to the latest standards issued by the ASTM, AWWA and ANSI/NSF, where such standards exist, and be acceptable to the Division of Water. [Recommended Standards for Water Works 8.1]
T-23	Water mains which have been used previously for conveying potable water may be reused provided they meet the above standards and have been restored practically to their original condition. [Recommended Standards for Water Works 8.1]

## Distribution-Water Line Extension

Northern KY Water District

Facility Requirements

Activity ID No.:APE20170013

Page 3 of 4

### PORT000000277 (24" Cross Country Water Main Replacement Phase 2) 2,640 LF of 24-inch and 10 LF of 8-inch DI water line replacement:

#### Narrative Requirements:

Condition No.	Condition
T-24	Manufacturer approved transition joints shall be used between dissimilar piping materials. [Recommended Standards for Water Works 8.1]
T-25	The minimum size of water main which provides for fire protection and serving fire hydrants shall be six-inch diameter. [Recommended Standards for Water Works 8.2, Drinking Water General Design Criteria IV.2.a]
T-26	Pipes and pipe fittings containing more than 8% lead shall not be used. All products shall comply with ANSI/NSF standards. [Recommended Standards for Water Works 8.1]
T-27	Gaskets containing lead shall not be used. Repairs to lead-joint pipe shall be made using alternative methods. [Recommended Standards for Water Works 8.1]
T-28	Pipe materials shall be selected to protect against both internal and external pipe corrosion. [Recommended Standards for Water Works 8.1]
T-29	Dead end mains shall be equipped with a means to provide adequate flushing. [Recommended Standards for Water Works 8.2]
T-30	The hydrant lead shall be a minimum of six inches in diameter. Auxiliary valves shall be installed on all hydrant leads. [Recommended Standards for Water Works 8.4.3]
T-31	A sufficient number of valves shall be provided on water mains to minimize inconvenience and sanitary hazards during repairs. [Recommended Standards for Water Works 8.3]
T-32	Wherever possible, chambers, pits or manholes containing valves, blow-offs, meters, or other such appurtenances to a distribution system, shall not be located in areas subject to flooding or in areas of high groundwater. Such chambers or pits should drain to the ground surface, or to absorption pits underground. The chambers, pits and manholes shall not connect directly to any storm drain or sanitary sewer. Blow-offs shall not connect directly to any storm drain or sanitary sewer. [Recommended Standards for Water Works 8.6]
T-33	At high points in water mains where air can accumulate provisions shall be made to remove the air by means of air relief valves. [Recommended Standards for Water Works 8.5.1]
T-34	Automatic air relief valves shall not be used in situations where flooding of the manhole or chamber may occur. [Recommended Standards for Water Works 8.5.1]
T-35	The open end of an air relief pipe from automatic valves shall be extended to at least one foot above grade and provided with a screened, downward-facing elbow. [Recommended Standards for Water Works 8.5.2.c]



## Distribution-Water Line Extension

Northern KY Water District

Facility Requirements

Activity ID No.:APE20170013

Page 4 of 4

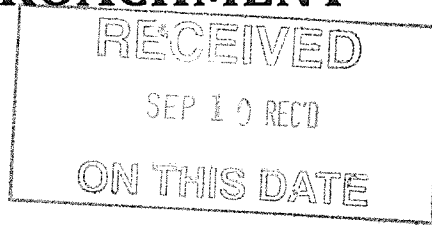
### PORT000000277 (24" Cross Country Water Main Replacement Phase 2) 2,640 LF of 24-inch and 10 LF of 8-inch DI water line replacement:

#### Narrative Requirements:

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Condition No.	Condition
T-36	Discharge piping from air relief valves shall not connect directly to any storm drain, storm sewer, or sanitary sewer. [Recommended Standards for Water Works 8.5.2.d]
T-37	Water pipe shall be constructed with a lateral separation of 10 feet or more from any gravity sanitary or combined sewer measured edge to edge where practical. If not practical a variance may be requested to allow the water pipe to be installed closer to the gravity sanitary or combined sewer provided the water pipe is laid in a separate trench or undisturbed shelf located on one side of the sewer with the bottom of the pipe at least 18 inches above the top of the gravity sanitary or combined sewer pipe. [Drinking Water General Design Criteria IV.3.b]
T-38	Water lines crossing sanitary, combined or storm sewers shall be laid to provide a minimum vertical distance of 18 inches between the outside of the water main and the outside of the sanitary, combined or storm sewer with preference to the water main located above the sanitary, combined or storm sewer. [Drinking Water General Design Criteria IV.3.c]
T-39	At crossings, one full length of water pipe shall be located so both joints will be as far from the sewer as possible. [Recommended Standards for Water Works 8.8.3.b]
T-40	There shall be no connection between the distribution system and any pipes, pumps, hydrants, or tanks whereby unsafe water or other contaminating materials may be discharged or drawn into the system. [Recommended Standards for Water Works 8.10.1]
T-41	Water utilities shall have a cross connection program conforming to 401 KAR 8. [Recommended Standards for Water Works 8.10.1]
T-42	Installed pipe shall be pressure tested and leakage tested in accordance with the appropriate AWWA Standards. [Recommended Standards for Water Works 8.7.6]
T-43	New, cleaned and repaired water mains shall be disinfected in accordance with AWWA Standard C651. The specifications shall include detailed procedures for the adequate flushing, disinfection, and microbiological testing of all water mains. In an emergency or unusual situation, the disinfection procedure shall be discussed with the Division of Water. [Recommended Standards for Water Works 8.7.7]
T-44	A minimum cover of five feet shall be provided over pipe crossing underwater. [Recommended Standards for Water Works 8.9.2]
T-45	Valves shall be provided at both ends of water crossings so that the section can be isolated for testing or repair; the valves shall be easily accessible, and not subject to flooding for pipes crossing underwater. [Recommended Standards for Water Works 8.9.2.b]
T-46	Permanent taps or other provisions to allow insertion of a small meter to determine leakage and obtain water samples on each side of the valve closest to the supply source for pipes crossing. [Recommended Standards for Water Works 8.9.2.c]

# CITY OF CRESTVIEW HILLS RIGHT OF WAY ENCROACHMENT PERMIT



EFFECTIVE DATE: 9/8/18

LOCATION: Horsebranch Road

NATURE OF ENCROACHMENT: Installation of water main with sidewalk replacement and installation of casing pipe under Horsebranch Rd.

TYPE OF INDEMNITY:

BOND

CASH

SELF INSURED

OTHER

NAME AND ADDRESS OF SELF-INSURED REPRESENTATIVE/INSURANCE AGENCY  
*(Please provide C.O.L. Insurance for Contractors)*

APPLICANT INFORMATION:

NAME: Steve Broering, Northern Kentucky Water District

ADDRESS: 2835 Crescent Springs Road

CITY: Erlanger STATE: KY ZIP CODE: 41018

TELEPHONE: 859-426-2728 CELL: \_\_\_\_\_

EMAIL ADDRESS: \_\_\_\_\_

SPECIAL PROVISIONS FOR PERMIT: See attached letter.

Authorized Representative: Rick Lunnemann

Title: Public Works Director



# CITY OF CRESTVIEW HILLS

A Kentucky Chamber of Commerce Hall of Fame City

PAUL W. MEIER, MAYOR

September 6, 2018

Mr. Steve Broering  
Engineering Technician  
Northern Kentucky Water District  
2835 Crescent Springs Road  
P.O. Box 18640  
Erlanger, KY 41018

Re: Cross Country Water Main Project, Crestview Hills Encroachment Permit

Dear Mr. Broering:

The City of Crestview Hills is in receipt of an Encroachment Permit Application from the Northern Kentucky Water District (NKWD) for a major project known as the Cross Country Water Main Replacement project. The project area will extend from Rogers Road in Edgewood under Horsebranch Road to Centre View Boulevard in Crestview Hills.

The Encroachment Permit Application is hereby approved subject to the conditions and restoration requirements outlined in this letter. This Encroachment Permit applies only to the use of public right-of-ways in the City of Crestview Hills. NKWD shall obtain all other necessary easements, permits, approvals, and licenses required to perform the work. The conditions of approval are as follows:

- All public streets in the vicinity of the project shall be maintained free of mud, dirt, and debris on a daily basis throughout the duration of the project.
- Appropriate work zone traffic control measures shall be followed for the work as outlined in the FHWA Manual on Uniform Traffic Control Devices.
- The City of Crestview Hills shall be notified at least two (2) business days prior to the commencement of work within the City limits.
- Any damage or disturbance to the public right-of-way, including but not limited to, streets, curbs, sidewalks, or grass areas, or any City owned infrastructure shall be repaired/replaced at the conclusion of the project. A meeting at the conclusion of the project shall occur between a NKWD representative and the City's Public Works Director to assess the damage, if any, determine the appropriate corrective action, and establish a timeline for the work to occur.

- No street cuts are permitted to occur to Horsebranch Road. All road crossing shall occur by boring under the street in accordance with the plans submitted with the Encroachment Permit Application.
- At the conclusion of the project, all work areas shall be returned to as good or better condition than it was prior to the start of the project.

If you have any questions please contact me at 859-341-7373.

Sincerely,

A handwritten signature in cursive script that reads "Rick Lunnemann".

Rick Lunnemann  
Public Works Director



June 22, 2018

Mr. Barry Miller  
Northern Kentucky Water District  
PO Box 18640, 2835 Crescent Springs Road  
Erlanger, KY 41018

**RE: NKWD-Edgewood Cross-Country 24" Water Main Replacement  
Grading Permit – GRP-17-12-007**

Dear Mr. Miller:

Your application for a Grading Permit for the NKWD-Edgewood Cross-Country 24" Water Main Replacement Project has been reviewed and approved by SD1 under Permit number GRP-17-12-007.

In no event shall SD1's issuance of this permit be construed as relieving you from obtaining all other applicable local, state or federal permits and/or licenses prior to performing any land disturbing activities. It is your responsibility to ensure all land disturbing construction and associated activities pertaining to this permit shall be accomplished pursuant to the approved plans. Any hydrologic issue(s), flooding, property damage, etc. that may result from the approved plans or failure to construct the approved plans is not the responsibility of SD1.

The person named on the permit (permittee) has agreed to comply with all applicable SD1 Rules and Regulations. This permit must be retained by the permittee and made available for review upon request.

Upon completion of this project a Notice of Termination must be submitted to SD1. All erosion protection and sediment control best management practices (e.g., silt fence, sediment basins, etc.) installed on the site must be removed and permanent vegetation established before SD1 will approve any Notice of Termination.

Please contact SD1's Environmental Compliance Coordinator, Jason Burlage, at 859-578-6892 at least 72 hours prior to beginning any land disturbing activities to schedule an on-site pre-construction meeting.

Mr. Barry Miller  
Page Two  
June 22, 2018

This permit shall remain valid for two years from the date of this approval letter. Once work begins, appropriate and timely progress towards completion of work must occur. If the site becomes inactive for one year, this permit becomes void.

If you have any questions or comments regarding this notice, please contact me at 859-578-6881 or by email at [wplunkett@sd1.org](mailto:wplunkett@sd1.org).

Sincerely,



William A. Plunkett, P. E.

Engineer II

Integrated Watershed Management, Development Services

cc: Planning and Development Services of Kenton County (*via email only*)  
Viox & Viox, Inc. (*via email only*)



## United States Department of the Interior

### FISH AND WILDLIFE SERVICE

Kentucky Ecological Services Field Office  
330 West Broadway, Suite 265  
Frankfort, Kentucky 40601  
(502) 695-0468

March 8, 2018

Ms. Jenna Canafax  
Northern Kentucky Water District  
P.O. Box 18640  
Erlanger, Kentucky 41018

Re: FWS 2018-B-0054; Northern Kentucky Water District; Phase 2- Concrete Water Main Replacement; Kenton County, Kentucky

Dear Ms. Canafax:

The U.S. Fish and Wildlife Service (Service) has reviewed your February 9, 2017 correspondence regarding the above-referenced project and the biological assessment (BA) prepared by Lee Otte, senior biologist at Otte Enterprises. The Service offers the following comments in accordance with the Endangered Species Act (ESA) of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*).

#### **Project Description**

The Northern Kentucky Water District is proposing to replace a water main located in the valley through which Horse Branch Creek flows and Horsebranch Road is located. The new water main will require a right-of-way (ROW) that will be approximately 2,250 feet long and 20 feet wide; about 1,750 linear feet of the ROW will be located within an already existing ROW and the remaining 500 linear feet will cross forested habitat, which will result in the loss of approximately 0.23-acre of forested habitat.

#### **Indiana Bat (*Myotis sodalis*)**

#### **Northern Long-eared Bat (*Myotis septentrionalis*)**

The proposed project is located in "potential" habitat for the Indiana bat and the northern long-eared bat. These bat species winter in caves, rock shelters, and abandoned underground mines. During the summer they roosts in trees, which usually have, cracks, crevices, broken tops, broken limbs, or sloughing bark, and forage in and around forested habitat.

The BA prepared by Lee Otte states that no cave or cave-like habitat is present within the project area. The proposed project would result in the loss of 0.23-acre of forested habitat, which consist of a mixture of older trees (e.g., black and honey locust, wild cherry, ash, and box elder) and younger trees (e.g., sugar maple, hackberry, oak species); the photographs included in the BA indicates that most of the trees that will be removed are relatively young and lack the characteristics of a suitable roost tree. Lee Otte noted that several dead ash trees, killed by the

emerald ash borer beetle, are present within the forested section of the ROW that could have provided roosting habitat, but these have been dead for several years and all ash trees have either fallen to the ground or lost all their bark. The BA also states that several suitable roosting trees, including two shagbark hickories, will remain in the forested habitat adjacent to the ROW. At a larger scale, the 0.23-acre area that will be removed represent a small portion (~0.07%) of the approximately 300 acres of forest habitat present within the valley, and its loss would not result in significant forest fragmentation that can affect the capacity for these species to forage or find suitable roost trees.

Based on the information available, the Service believes that direct effect from the removal of forest habitat will be avoided. In addition, the Service believes that indirect effects from the loss a 0.23-acre of foraging habitat will be insignificant given the presence of large forest blocks near the project area. Therefore, the Service believes that the proposed project is not likely to result in significant adverse impacts to the Indiana bat and the northern long-eared bat.

**Running Buffalo Clover** (*Trifolium stoloniferum*)

Running buffalo clover is known to occur in habitats like stream banks and low mesic (moderately moist) forests. It can also be found in disturbed areas that are grazed or mechanically maintained including old pastures, moderately grazed fields, road rights-of-way, power line rights-of-way, lawns, and cemeteries.

The BA indicated that the forested section of the ROW does not provide the semi-open environment and disturbance regime required by running buffalo clover. In addition, while the open ROW habitat does experience some periodic disturbance through bush-hogging to keep woody vegetation under control, the vegetation on the ground is relatively dense and consists of grasses and open-area weedy herbaceous species. The Service agrees with Lee Otte's assessment for this species and does not have additional comments or concerns regarding the running buffalo clover.

The comments provided on this letter are based on the current information available to us. The Service's comments or concerns might change, however, if: (1) new information reveals that the proposed action may affect listed species in a manner or to an extent not previously considered, (2) the proposed action is subsequently modified to include activities which were not considered during this consultation, or (3) new species are listed or critical habitat designated before the project is completed

Thank you again for your request. Your concern for the protection of endangered and threatened species is greatly appreciated. If you have any questions regarding the information that we have provided, please contact Santiago Martín at (502) 695-0468 extension 116 or [santiago\\_martin@fws.gov](mailto:santiago_martin@fws.gov).

Sincerely,



Virgil Lee Andrews, Jr.  
Field Supervisor



NORTHERN KENTUCKY  
WATER DISTRICT

*Project*

*24-inch Cross-Country Water Main*  
*Replacement Project,*  
*Edgewood/Crestview Hills,*  
*Kenton County, Kentucky*

184-0776

State Debt Officer Notification

# Northern Kentucky Water District

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September 25, 2018

Commissioner and State Local Debt Officer  
1024 Capital Center Drive, Suite 340  
Frankfort, Kentucky 40601

Re: Northern Kentucky Water District, PSC Case No. 2018-00316  
Notice of Intent to Issue Securities

Dear Commissioner:

Pursuant to the regulations of the Kentucky Public Service Commission, specifically 807 KAR 5:001: Section 18(1)(g), please be advised that the Northern Kentucky Water District (the "District") hereby notifies the State Local Debt Officer that the District intends on issuing securities in the form of a state revolving loan from the Kentucky Infrastructure Authority (the "KIA") for the purpose of funding the 24-inch Cross-Country Water Main Replacement Project with an estimated budget of \$1,200,000, and other projects estimating \$2,800,000, with an estimated total budget of \$4,000,000.

We will file the appropriate documents with your office in accordance with the requirements of KRS 65.117 once the securities are issued.

Very truly yours,

The Northern Kentucky Water District



By: Lindsey Rechten

NORTHERN KENTUCKY  
WATER DISTRICT

*Project*

*24-inch Cross-Country Water Main  
Replacement Project,  
Edgewood/Crestview Hills,  
Kenton County, Kentucky*

184-0776

BID INFORMATION

Bid Tabulation

Engineer's Recommendation of Award

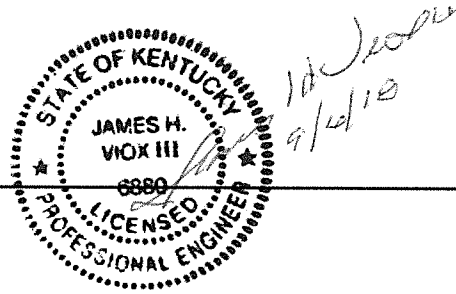
NORTHERN KENTUCKY  
WATER DISTRICT

*Project*

*24-inch Cross-Country Water Main  
Replacement Project,  
Edgewood/Crestview Hills,  
Kenton County, Kentucky*

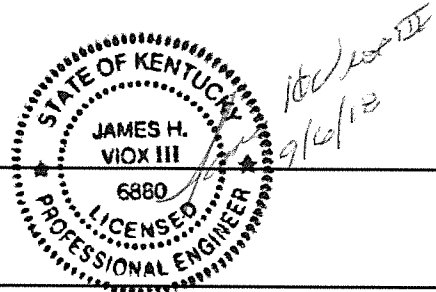
184-0776

Bid Tabulation



**BID TABULATIONS  
NORTHERN KENTUCKY WATER DISTRICT  
EDGEWOOD 24" CROSS COUNTRY WMR**

Item No.	Description	Unit of Measure	Estimated Quantity	GARNEY COMPANIES, INC.		LYKINS CONTRACTING		WELSH EXCAVATION CO. INC.		LONKARD CONSTRUCTION COMPANY	
				Unit Cost Total	Total Cost	Unit Cost Total	Total Cost	Unit Cost Total	Total Cost	Unit Cost Total	Total Cost
1	6.02A 8" Class 50 Ductile Iron Pipe -BOLTLESS INTERNAL RESTRAINED JOINTw/Polywrap (Detail 103, 103a, 104, 104a, 110)	LF	10	\$160.00	\$1,600.00	\$175.00	\$1,750.00	\$97.00	\$970.00	\$150.00	\$1,500.00
2	6.02A 24" Class 50 Ductile Iron Pipe -BOLTLESS INTERNAL RESTRAINED JOINTw/Polywrap {DEEP & UNDERCUTTING}	LF	2646	\$240.00	\$635,040.00	\$325.00	\$859,950.00	\$316.00	\$836,136.00	\$342.50	\$906,255.00
3	6.04 36" Steel Casing Pipe By Bore & Jack {0.532" Min. Wall Thickness KDOT Spec's}	LF	36	\$1,100.00	\$39,600.00	\$800.00	\$28,800.00	\$1,515.00	\$54,540.00	\$950.00	\$34,200.00
4	7.01 Connect To Ex. 36" Main (Includes ductile iron to concrete adapters)	EA	2	\$33,000.00	\$66,000.00	\$15,000.00	\$30,000.00	\$18,700.00	\$37,400.00	\$15,000.00	\$30,000.00
5	8.01 Install Fire Hydrant {HIGH PRESSURE}	EA	3	\$6,000.00	\$18,000.00	\$4,245.00	\$12,735.00	\$6,980.00	\$20,940.00	\$5,500.00	\$16,500.00
6	9.01 8" Resilient Seated Gate Valve	EA	1	\$3,000.00	\$3,000.00	\$1,165.00	\$1,165.00	\$1,430.00	\$1,430.00	\$1,600.00	\$1,600.00
7	9.03 24" Ductile Iron Resilient Wedge Gate Valve with Beveled Gearing (Lay Down Gate Valve)	EA	2	\$34,000.00	\$68,000.00	\$17,525.00	\$35,050.00	\$24,100.00	\$48,200.00	\$22,000.00	\$44,000.00
8	11.04 8" Pipe Plug & Block	EA	1	\$1,000.00	\$1,000.00	\$2,200.00	\$2,200.00	\$500.00	\$500.00	\$400.00	\$400.00
9	11.06 24" x 24" x 6" Anchoring Tees & Blocks	EA	3	\$12,000.00	\$36,000.00	\$3,150.00	\$9,450.00	\$4,540.00	\$13,620.00	\$3,500.00	\$10,500.00
10	11.06 24" x 24" x 8" Anchoring Tees & Blocks	EA	1	\$12,000.00	\$12,000.00	\$3,985.00	\$3,985.00	\$4,700.00	\$4,700.00	\$3,900.00	\$3,900.00
11	11.09 36" - 24" Reducer	EA	2	\$10,000.00	\$20,000.00	\$5,800.00	\$11,600.00	\$8,445.00	\$16,890.00	\$8,500.00	\$17,000.00
12	11.11 Test Tap	EA	1	\$500.00	\$500.00	\$450.00	\$450.00	\$5,000.00	\$5,000.00	\$2,000.00	\$2,000.00
13	11.16 Corrosion Test Stations	EA	4	\$1,500.00	\$6,000.00	\$1,000.00	\$4,000.00	\$2,400.00	\$9,600.00	\$1,100.00	\$4,400.00
14	11.17 Magnesium Anodes	EA	31	\$500.00	\$15,500.00	\$675.00	\$20,925.00	\$415.00	\$12,865.00	\$650.00	\$20,150.00
15	12.12 Concrete Sidewalk Restoration	SY	50	\$60.00	\$3,000.00	\$75.00	\$3,750.00	\$90.00	\$4,500.00	\$75.00	\$3,750.00
16	12.13 Gravel Drive	SY	1900	\$12.00	\$22,800.00	\$20.00	\$38,000.00	\$9.00	\$17,100.00	\$8.00	\$15,200.00
17	12.14 Best Management Practice {SWPPP}	LS	1	\$17,000.00	\$17,000.00	\$19,500.00	\$19,500.00	\$13,065.00	\$13,065.00	\$7,500.00	\$7,500.00
18	12.15 Clearing	LS	1	\$15,000.00	\$15,000.00	\$12,000.00	\$12,000.00	\$30,000.00	\$30,000.00	\$75,000.00	\$75,000.00
	<b>TOTAL CONTRACTOR BID</b>				<b>\$980,040.00</b>		<b>\$1,095,310.00</b>		<b>\$1,127,456.00</b>		<b>\$1,193,855.00</b>



**BID TABULATIONS  
NORTHERN KENTUCKY WATER DISTRICT  
EDGEWOOD 24" CROSS COUNTRY WMR**

Item No.	Description	Unit of Measure	Estimated Quantity	HOWELL CONTRACTORS, INC.		LARRY SMITH, INC.		BP PIPELINE LLC.	
				Unit Cost Total	Total Cost	Unit Cost Total	Total Cost	Unit Cost Total	Total Cost
1	6.02A 8" Class 50 Ductile Iron Pipe -BOLTLESS INTERNAL RESTRAINED JOINTw/Polywrap (Detail 103, 103a, 104, 104a, 110)	LF	10	\$100.00	\$1,000.00	\$150.00	\$1,500.00	\$400.00	\$4,000.00
2	6.02A 24" Class 50 Ductile Iron Pipe -BOLTLESS INTERNAL RESTRAINED JOINTw/Polywrap {DEEP & UNDERCUTTING}	LF	2646	\$350.00	\$926,100.00	\$400.00	\$1,058,400.00	\$450.00	\$1,190,700.00
3	6.04 36" Steel Casing Pipe By Bore & Jack {0.532" Min. Wall Thickness KDOT Spec's}	LF	36	\$1,350.00	\$48,600.00	\$2,000.00	\$72,000.00	\$1,300.00	\$46,800.00
4	7.01 Connect To Ex. 36" Main (Includes ductile iron to concrete adapters)	EA	2	\$15,500.00	\$31,000.00	\$30,000.00	\$60,000.00	\$18,000.00	\$36,000.00
5	8.01 Install Fire Hydrant {HIGH PRESSURE}	EA	3	\$4,500.00	\$13,500.00	\$6,000.00	\$18,000.00	\$6,000.00	\$18,000.00
6	9.01 8" Resilient Seated Gate Valve	EA	1	\$1,000.00	\$1,000.00	\$1,500.00	\$1,500.00	\$1,800.00	\$1,800.00
7	9.03 24" Ductile Iron Resilient Wedge Gate Valve with Beveled Gearing (Lay Down Gate Valve)	EA	2	\$18,500.00	\$37,000.00	\$23,500.00	\$47,000.00	\$22,000.00	\$44,000.00
8	11.04 8" Pipe Plug & Block	EA	1	\$200.00	\$200.00	\$200.00	\$200.00	\$6,000.00	\$6,000.00
9	11.06 24" x 24" x 6" Anchoring Tees & Blocks	EA	3	\$4,150.00	\$12,450.00	\$7,500.00	\$22,500.00	\$3,000.00	\$9,000.00
10	11.06 24" x 24" x 8" Anchoring Tees & Blocks	EA	1	\$4,250.00	\$4,250.00	\$7,250.00	\$7,250.00	\$3,500.00	\$3,500.00
11	11.09 36" - 24" Reducer	EA	2	\$4,500.00	\$9,000.00	\$10,000.00	\$20,000.00	\$6,000.00	\$12,000.00
12	11.11 Test Tap	EA	1	\$500.00	\$500.00	\$1,000.00	\$1,000.00	\$6,000.00	\$6,000.00
13	11.16 Corrosion Test Stations	EA	4	\$1,500.00	\$6,000.00	\$500.00	\$2,000.00	\$1,000.00	\$4,000.00
14	11.17 Magnesium Anodes	EA	31	\$1,750.00	\$54,250.00	\$250.00	\$7,750.00	\$1,000.00	\$31,000.00
15	12.12 Concrete Sidewalk Restoration	SY	50	\$90.00	\$4,500.00	\$45.00	\$2,250.00	\$300.00	\$15,000.00
16	12.13 Gravel Drive	SY	1900	\$5.00	\$9,500.00	\$10.00	\$19,000.00	\$30.00	\$57,000.00
17	12.14 Best Management Practice {SWPPP}	LS	1	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$200,000.00	\$200,000.00
18	12.15 Clearing	LS	1	\$45,000.00	\$45,000.00	\$33,000.00	\$33,000.00	\$100,000.00	\$100,000.00
	<b>TOTAL CONTRACTOR BID</b>				<b>\$1,213,850.00</b>		<b>\$1,383,350.00</b>		<b>\$1,784,800.00</b>

NORTHERN KENTUCKY  
WATER DISTRICT

*Project*

*24-inch Cross-Country Water Main*  
*Replacement Project,*  
*Edgewood/Crestview Hills,*  
*Kenton County, Kentucky*

184-0776

Engineer's Recommendation of Award



# VIOX & VIOX

Civil Engineers, Surveyors, and Landscape Architects

466 Erlanger Road  
Erlanger, Kentucky 41018

Tel: 859.727.3293  
Fax: 859.727.8452  
[www.vioxinc.com](http://www.vioxinc.com)

September 6, 2018

Northern Kentucky Water District  
P.O. Box 18640  
2835 Crescent Springs Road  
Erlanger, KY 41018

ATTN: John Scheben  
Distribution & Special Projects Manager

RE: Edgewood 24" Cross Country Water Main Replacement

Dear Mr. Scheben,

We have reviewed the bids received September 6, 2018, for the Edgewood 24" Cross Country Water Main Replacement, Edgewood, Kenton County, KY. The breakdown of the bids has been provided to your staff and to the contractors.

The low bidder was Garney Companies, Inc. with a bid of \$980,040.00, well under our estimate of \$1,858,800.00 and \$115,270.00 less than the second lowest bid received. All seven bidders were under our estimate dated 6/26/2018.

Garney Companies, Inc. has not been a contractor for the NKWD in the past. NKWD has reviewed their financials and have contacted some references. NKWD staff is satisfied with the information received; therefore, it is our recommendation the contract should be awarded to them for \$980,040.00.

Hopefully, this recommendation is sufficient for your Commission to make their decision.

Yours truly,

James H. Viox III, P.E., L.S.



NORTHERN KENTUCKY  
WATER DISTRICT

*Project*

*24-inch Cross-Country Water Main  
Replacement Project,  
Edgewood/Crestview Hills,  
Kenton County, Kentucky*

184-0776

Board Meeting Minutes

**Northern Kentucky Water District  
Board of Commissioners  
Regular Meeting  
September 20, 2018**

A regular meeting of the Board of Commissioners of the Northern Kentucky Water District was held on September 20, 2018 at the District's facility located at 2835 Crescent Springs Road in Erlanger, Kentucky. All Commissioners were present, except for Commissioners Fred Macke and David Spaulding. Also present were Ron Lovan, Lindsey Rehtin, Amy Kramer, Alex Mattingly, Kim Clemons, Jeff Schuchter, Stacey Kampsen and John Scheben.

Commissioner Clyde Cunningham called the meeting to order at 12:07 p.m., and Stacey Kampsen led the pledge of allegiance.

The Commissioners reviewed correspondence received and articles published since the last regular Board meeting on August 18, 2018.

On motion of Commissioner Joseph Koester, seconded by Commissioner Patricia Sommerkamp, the Commissioners unanimously approved the minutes for the regular Board meeting held on August 18, 2018.

The Board was provided a copy of the District's check registers, which included the check number, check date, payee, check amount and description of the reason for each payment, detailing the District's expenditures for the period August 1, 2018 through August 31, 2018. On motion of Commissioner Douglas Wagner, seconded by Commissioner Koester, and after discussion, the Commissioners unanimously approved the expenditures of the District for the month of August 2018.

On motion of Commissioner Sommerkamp, seconded by Commissioner Wagner, the Board unanimously accepted the bid of and awarded a contract to Wessel Lawncare & Landscaping LLC for a one year period, with the option to renew for two additional one year periods, for snow and ice removal services at District facilities with a \$2,459.00 per visit cost to all 19 District sites, and authorized staff to execute the appropriate documents.

On motion of Commissioner Sommerkamp, seconded by Commissioner Wagner, the Board unanimously accepted the bid of and awarded a contract to Garney Companies, Inc. for the 24-Inch Cross-Country Water Main Replacement Project with a project budget of \$1,200,000, and authorized staff to execute the appropriate documents.

On motion of Commissioner Wagner, seconded by Commissioner Sommerkamp, the Board unanimously accepted the bid of and awarded a contract to JNT Excavating LLC for the Cochran Avenue Water Main Replacement with a total project budget of \$355,000, and authorized staff to execute the appropriate documents.

On motion of Commissioner Wagner, seconded by Commissioner Koester, the Board unanimously formally acknowledged the necessity of emergency work, and applicable certificates of emergency, to stabilize the Advanced Treatment Building roof totaling \$188,079.80, and the contracts and payments paid to O'Rourke Wrecking Company and SAFWAY applicable to this work.

On motion of Commissioner Sommerkamp, seconded by Commissioner Koester, the Board unanimously authorized staff to file a rate case application to the Public Service Commission for an adjustment of rates to produce total additional annual revenues not to exceed \$6,300,000 and an estimated percentage increase not to exceed 12% to be phased in over a two-year period.

The Commissioners reviewed the District's financial reports and Department reports. Lindsey Rehtin updated the Board on the upcoming District budget and the status of unclaimed funds held by the District. As part of her report, Amy Kramer reviewed with the Commissioners the status of on-going projects within the 2018 5-Year Capital Budget, including highlighting three change orders and expenses incurred to date. Kim Clemons updated the Board on the District health fair to be held on September 27.

On a motion of Commissioner Sommerkamp, seconded by Commissioner Koester, the Board unanimously agreed to go into executive/closed session under the provisions of KRS 61.810(1)(c) to discuss two items of pending or proposed litigation against or on behalf of the District and to protect the District's legal interests and strategy in connection with such litigation. The executive/closed session commenced at 1:35 p.m. and ended at 1:56 p.m. No action was taken by the Board.

Other matters of a general nature were discussed.

The meeting adjourned at 1:57 p.m.

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CHAIRMAN

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SECRETARY

NORTHERN KENTUCKY  
WATER DISTRICT

*Project*

*24-inch Cross-Country Water Main  
Replacement Project,  
Edgewood/Crestview Hills,  
Kenton County, Kentucky*

184-0776

PROJECT FINANCE INFORMATION

Customers Added and Revenue Effect

Debt Issuance and Source of Debt

Additional Costs for Operating and Maintenance

USoA Plant Account

Depreciation Cost and Debt Service After Construction

Conditional Letter of Commitment

Application for SRF Loan Fund

Exhibit D

Customers Added and Revenue Effect: There are no new customers anticipated.

Debt Issuance and Source of Debt: The project will be funded by a future BAN, PSC Reference No. 246 “2019 Water Main Replacement Program”, as part of the 2018 Five-Year Capital Budget with a total budget of \$6,700,000 and SRF Loan 2016 with a total budget of \$4,000,000. The funding breakdown will be \$200,000 from “2019 Water Main Replacement Program” and \$1,000,000 from SRF Loan 2016. The total project budget for this project is \$1,200,000 which includes construction cost, engineering, materials, and contingencies. A summary of the project costs is provided below:

○ Engineering	\$ 85,430.74
○ Contractor’s Bid	\$ 980,040.00
○ Misc. & Contingencies	\$ 134,529.26
Total Project Cost	\$ 1,200,000.00

USoA Accounts: The anticipated amounts for the project cost of \$1,200,000.00 will fall under the following Uniform System of Accounts Codes:

Code 331 “Transmission & Distribution Mains”	\$ 1,178,900
Code 334 “Meter & Meter Installation ”	\$ 0
Code 335 “Hydrants”	\$ 21,100

Additional Costs and O&M: No additional operating and maintenance costs are anticipated from the project.

Depreciation and Debt Service: Annual depreciation and debt service after construction are as follows:

- Depreciation: \$18,862.40/year over 62.5 years for Code 331 “Transmission & Distribution Mains”  
\$422.00/year over 50 years for Code 335 “Hydrants”
- Debt Service: \$118,951.21 over 20 years (1.75% loan plus .25% service fee)



## **KENTUCKY INFRASTRUCTURE AUTHORITY**

**Matthew G. Bevin**  
Governor

Capital Center Complex  
1024 Capital Center Drive, Suite 340  
Frankfort, Kentucky 40601  
(502) 573-0260  
(502) 573-0157 (fax)  
kia.ky.gov

March 10, 2016

Northern Kentucky Water District  
Attn: Lindsey Rehtin, V.P. of Finance  
2835 Crescent Springs Road  
Erlanger, KY 41018

### **KENTUCKY INFRASTRUCTURE AUTHORITY FEDERALLY ASSISTED DRINKING WATER REVOLVING LOAN FUND CONDITIONAL COMMITMENT LETTER (F16-027)**

Dear Ms. Rehtin:

The Kentucky Infrastructure Authority ("the Authority") commends your efforts to improve public service facilities in your community. On March 3, 2016, the Authority approved your loan for the Campbell and Kenton County Water Main Replacement and SCADA Improvements project, subject to the conditions stated below. The total cost of the project shall not exceed \$5,385,000 of which the Authority loan shall provide \$4,000,000 of the funding. Other anticipated funding for the project is reflected in Attachment A. The final loan amount will be equal to the Authority's portion of estimated project cost applied to the actual project cost. Attachment A incorporated herein by reference fully describes the project.

An Assistance Agreement will be executed between the Authority and the Northern Kentucky Water District upon satisfactory performance of the conditions set forth in this letter. You must meet the conditions set forth in this letter and enter into an Assistance Agreement by March 10, 2017 (twelve months from the date of this letter). A one-time extension of up to six months may be granted for applicants that experience extenuating circumstances. Funds will be available for disbursement only after execution of the Assistance Agreement.

The Assistance Agreement and this commitment shall be subject, but not limited to, the following terms:

1. The Authority project loan shall not exceed \$4,000,000.
2. The loan project does not qualify for principal forgiveness.

3. The loan shall bear interest at the rate of 1.75 percent per annum commencing with the first draw of funds.
4. Interest shall be payable on the amount of actual funds received. The first payment shall be due on June 1, or December 1, immediately succeeding the date of the initial draw of funds, provided that if such June 1, or December 1, shall be less than three months since the date of the initial draw of funds, then the first interest payment date shall be the June 1, or December 1, which is at least six months from the date of the initial draw of funds. Interest payments will be due each six months thereafter until the loan is repaid.
5. Full principal payments will commence on the appropriate June 1, or December 1, within twelve months from initiation of operation. Full payments will be due each six months thereafter until the loan is repaid.
6. The loan shall be repaid over a period not to exceed 20 years from the date of initiation of operation for the project.
7. A loan servicing fee of 0.25% of the outstanding loan balance shall be payable to the Authority as a part of each interest payment.
8. Loan funds will only be disbursed after execution of the Assistance Agreement as project costs are incurred.
9. The Authority loan funds must be expended within six months of the official date of initiation of operation.
10. Fund "F" loan funds may be considered to be federal funds. OMB Circular A-133, "Audits of States, Local Governments and Non-Profit Organizations, requires that all recipients and subrecipients **expending \$750,000 or more in a year in federal awards must have a single or program-specific audit conducted for that year** in accordance with the Circular. If the federal amount expended plus all other federal funds expended exceeds the threshold, you are required to arrange for an A-133 audit to be performed by an independent, licensed CPA, or in special cases, the Auditor of Public Accounts of the Commonwealth of Kentucky. Please note that the guidance for single audit requirements has changed for fiscal or calendar year 2016 audits. Please consult with your independent auditor as soon as possible to understand how the changes will affect you.
11. The Authority requires an annual financial audit be provided for the life of the loan.
12. The final Assistance Agreement must be approved by ordinance or resolution, as applicable, of the city council or appropriate governing board.

The following is a list of the standard conditions to be satisfied prior to execution of the Assistance Agreement or incorporated in the Assistance Agreement. Any required documentation must be submitted to the party designated.

1. The Authority to Award (bid) package must be submitted to the Division of Water for approval within 14 days of bid opening.
2. The Assistance Agreement must be executed within six (6) months from bid opening.
3. Documentation of final funding commitments from all parties other than the Authority as reflected in the credit analysis shall be provided prior to preparation of the Assistance Agreement and disbursement of the loan monies. Rejections of any anticipated project funding shall be immediately reported and may cause this loan to be subject to further consideration.
4. The loan must undergo review by the Capital Projects and Bond Oversight Committee of the Kentucky Legislature prior to the State's execution of the Assistance Agreement. The committee meets monthly on the third Tuesday. Any special conditions listed in Attachment A must be satisfied before the project is presented before the Committee.
5. Any required adjustment in utility service rates shall be adopted by ordinance, municipal order or resolution by the appropriate governing body of the Borrower. Public hearings as required by law shall be held prior to the adoption of the service rate ordinance, order, or resolution. Any required approvals by the Kentucky Public Service Commission shall be obtained.
6. The Borrower must complete and return the attached "Authorization for Electronic Deposit of Vendor Payment" form to the Authority.
7. Documentation of Clearinghouse Endorsement and Clearinghouse Comments.
8. Prior to project bid, an environmental review shall be conducted by the Division of Water for all construction projects receiving DWSRF funds.
9. Technical plans and specifications and a complete DWSRF specifications checklist shall be approved by the Division of Water prior to project bid.
10. All easements or purchases of land shall be completed prior to commencement of construction. Clear Site Certification of all land or easement acquisitions shall be provided to the Division of Water. DOW representatives shall be notified for attendance of the pre-construction conference.



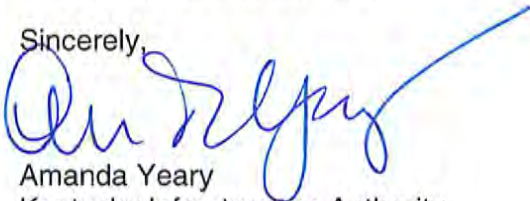
11. Project changes or additions deviating from the original scope of work described in the Project Profile may require a new or amended environmental review and change order review before they can be included in the DWSRF loan project.
12. Applicant must provide certification from their legal counsel stating that they have prepared construction specifications in accordance with all applicable state or federal wage rate laws, and that the procurement procedures, including those for construction, land, equipment and professional services that are a part of the project, are in compliance with applicable federal, state and local procurement laws.
13. Implement the Kentucky Uniform System of Accounting (KUSoA), or an alternative approved by the Authority and assure that rates and charges for services are based upon the cost of providing such service.
14. The Borrower shall comply with all Davis Bacon related monitoring and reporting and require all contractors to pay wages pursuant to applicable prevailing wage rates (federal or state) for all work relating to the subject Project.
15. The project shall comply with the reporting requirements of the Transparency Act, and shall complete the attached Transparency Act Reporting Information Form and provide to the Authority no later than 30 days after the KIA Board approval date of your loan.
16. If the project has a "Green Reserve" component, the Borrower must submit a Business Case, if required.
17. Based on the final "as-bid" project budget, the Borrower must provide satisfactory proof, based on then existing conditions, that the revenue projections in the attached descriptions are still obtainable and that the projections of operating expenses have not materially changed. The "as bid" project budget shall be reviewed and approved by the consulting engineer.
18. The project shall comply with American Iron and Steel requirements of The Consolidated Appropriations Act of 2014 (H.R. 3547), which became effective January 17, 2014, unless engineering plans and specifications were approved by the Division of Water prior to the effective date.

Any special conditions stated in Attachment A must be resolved.

Ms. Rehtin  
March 10, 2016  
Page 5

Please inform the Authority of any changes in your financing plan as soon as possible. We wish you every success for this project which will benefit both your community and the Commonwealth as a whole.

Sincerely,



Amanda Yeary  
Kentucky Infrastructure Authority

Attachments

cc: Amy Kramer, Northern Kentucky Water District  
State Local Debt Office, DLG

Please sign and return a copy of this letter indicating your acceptance of this commitment and its terms. Also attach the completed "Authorization for Electronic Deposit of Vendor Payment" Form.

  
Accepted

8/8/16  
Date

AUTHORIZATION FOR ELECTRONIC DEPOSIT  
OF BORROWER PAYMENT  
KENTUCKY INFRASTRUCTURE AUTHORITY  
(FUND F16-027)

Borrower Information:

Name: Northern Kentucky Water District  
Address: 2835 Crescent Springs Road  
City: Erlanger State: KY Zip: 41018  
Federal I.D. # 61-1311695  
Contact Name: Lindsey Telephone: \_\_\_\_\_  
Email: \_\_\_\_\_

Financial Institution Information:

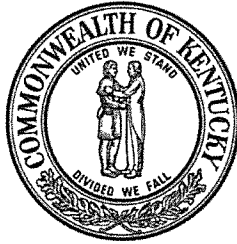
Bank Name: Park National Bank  
Branch: Florence Phone No: (859)283-3556  
City: Florence State: KY Zip: 41042  
Transit / ABA No.: 044 101 305  
Account Name: Loan/Grant  
Account Number: 124 012 511 0461

I, the undersigned, authorize payments directly to the account indicated above and to correct any errors which may occur from the transactions. I also authorize the Financial Institution to post these transactions to that account.

Signature: Lindsey Reckth Date: 8/8/16  
Name Printed: Lindsey Reckth Job Title: Acting Paffinac  
& Support Services

Please return completed form to:

Kentucky Infrastructure Authority  
1024 Capital Center Drive, Suite 340  
Frankfort, KY 40601  
phone: 502-573-0260  
fax: 502-573-0157



**COMMONWEALTH OF KENTUCKY**  
**DRINKING WATER STATE REVOLVING FUND**

**Campbell and Kenton County Water Main  
Replacement and SCADA Improvements Project**

**WX21117003**

Northern Kentucky  
**Water District**



An Equal Opportunity Employer M/F/D

Northern Kentucky  
**Water District**

August 11, 2015

Mr. John E. Covington, III  
Executive Director  
Kentucky Infrastructure Authority  
1024 Capital Center Drive, Suite 340  
Frankfort, KY 40601

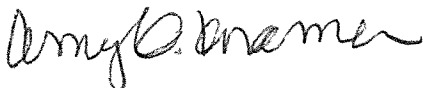
Re: Application for DWSRF Loan F16-027, Campbell and Kenton County Water Main Replacement and SCADA Improvements, WX21117003

Dear Mr. Covington:

Please find attached the application for the DWSRF Loan F16-027, Campbell and Kenton County Water Main Replacement and SCADA Improvements Project, WX21117003.

Should you have any questions or need additional information, please feel free to contact me at this office at (859) 426-2734 or [akramer@nkywater.org](mailto:akramer@nkywater.org). We appreciate your consideration in supporting this project.

Sincerely,



Amy K. Kramer, P.E.  
Acting Vice President, Engineering, Production & Distribution

akk



Steven L. Beshear  
Governor

**KENTUCKY INFRASTRUCTURE AUTHORITY**

1024 Capital Center Drive, Suite 340  
Frankfort, Kentucky 40601  
Phone (502) 573-0260  
Fax (502) 573-0157  
<http://kia.ky.gov>

John E. Covington III  
Executive Director

Jul 03, 2015

Jack Bragg,  
Northern Kentucky Water District  
PO Box 18640  
Erlanger, KY 41018

Re: DWSRF 2016 FY Loan Invitation (KIA# **F16-027**)

Dear ,

The Kentucky Infrastructure Authority (**KIA**) and the Kentucky Division of Water (**DOW**) would like to announce that funds are now available for the 2016 funding cycle for the Safe Drinking Water State Revolving Fund and we would like to invite you to submit an application for funding in the amount of **\$4,000,000**. The Campbell and Kenton County Water Main Replacement and SCADA Impr (KIA Loan Number **F16-027**) is eligible for funding based on information provided in the Water Resource Information System (WRIS) Project Profile submitted during the open Call for Projects which ran from October 2014 through December 2014. The following projects are included in this invitation:

**WX21117003** Campbell and Kenton County Water Main Replacement and SCADA Impr

If you are still seeking DWSRF funding for your project, please submit a complete loan application package, including all supporting documentation required for financial assistance to KIA by the **close of business on Aug 17, 2015**. The loan application should reference the following assigned loan number:

KIA Loan Number **F16-027**

**Please notify KIA by Aug 03, 2015 whether you intend to submit an application for funding.**

Should an above stated deadline fall during a weekend or holiday observance period then it will be extended to the next business day the Kentucky Infrastructure Authority is open for business. Please contact KIA if you believe a deadline should be extended due to these circumstances.

This letter is an invitation to apply for funding but does not commit funds to your project. If you do not submit a loan application by this deadline, your project will be bypassed for the 2016 funding cycle. If bypassed, the project may be considered for funding in the next funding cycle if your project is submitted during the 2017 Call for Projects which will begin in October 2015.

Upon submittal of a complete loan application, the documents will be reviewed and an

Page 2  
Jack Bragg  
July 03, 2015

introductory meeting will be scheduled with DOW, KIA and applicant representatives of the project to review loan requirements. To be considered for funding, the project description contained in the loan application must match the Project Profile contained in the WRIS. A credit analysis will be prepared and your loan request will be presented to the KIA Board for review and conditional approval. Upon Board approval, you will receive a Conditional Commitment Letter committing funding to your project for a period of twelve (12) months. The Conditional Commitment Letter is expressly contingent on KIA's actual receipt of funds in an amount sufficient to enable KIA to fully fund the loan.

All DWSRF program requirements must be met within the terms of the Conditional Commitment Letter before a loan assistance agreement can be executed. A fully executed loan assistance agreement is required before any funds are released.

Due to limited funds available, projects will be funded based on their "readiness to proceed". If it appears that the project **will not start construction prior to December 31, 2017, please notify KIA immediately** to determine whether or not an application will be considered. If your project has already been completed, obtained funding from another source, or you are not interested in DWSRF funding please notify Jami Johnson at [jami.johnson@ky.gov](mailto:jami.johnson@ky.gov) indicating the reason for declining the invitation on or before **Aug 03, 2015**.

If you have questions regarding the application for financing, please do not hesitate to contact Jami Johnson at 502-573-0260 . If you have questions regarding the technical or environmental requirements of your project, please contact Jori Becker at 502-564-3410.

Sincerely,



John E. Covington, III  
Executive Director  
Kentucky Infrastructure Authority

CC: Jeff Burt (NKADD Water Management Coordinator)  
Richard Harrison (Project Administrator)  
Cindy McDonald (DOW)  
Jami Johnson (KIA)

**NORTHERN KENTUCKY WATER DISTRICT**  
**Kenton and Campbell County Water Main Replacement and**  
**SCADA Improvements Project**  
**WX 21117003**

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1	APPLICATION
2	EPA FORM 4700-4 CIVIL RIGHTS COMPLIANCE Complaints Procedure, EEO & Lawful Employment Practices, Harassment Policy
3	AUTHORIZING RESOLUTION
4	ASSURANCES
5	DEBARMENT CERTIFICATION
6	ENGINEERING PROCUREMENT AND CONTRACTS Not Applicable – engineering fees not being paid with SRF funds
7	WATER RATES
8	AUDIT REPORTS AND FINANCIAL STATEMENTS 2012, 2013, 2014 Reports
9	PROJECT MAPS
10	CLEARINGHOUSE
11	WHOLESALE AGREEMENTS



# 1 APPLICATION



**COMMONWEALTH OF KENTUCKY**  
**DRINKING WATER STATE REVOLVING FUND**  
**APPLICATION FOR FINANCIAL ASSISTANCE**  
**FUND F**



An Equal Opportunity Employer M/F/D

**Part I – General Project Summary**

1. **PROJECT NAME:** Campbell & Kenton County Water Main Replacement and SCADA Improvements

2. **WRIS NUMBER:** WX21117003

3. **AMOUNT REQUESTED:** Fund F (DWSRF): \$4,000,000

**4. LEGAL APPLICANT**

Organization: Northern Kentucky Water District

Street/P.O. Box: 2835 Crescent Springs Road, P.O. Box 18640

City & Zip Code: Erlanger, KY 41018-0640

County: Kenton

Name: Jack Bragg

Title: Vice President, Finance & Support Services

Telephone: (859) 426-2758

Email Address: jbragg@nkywater.org

**5. PROJECT ADMINISTRATOR** (Consulting Engineer, Area Development District, etc.)

Name: Amy Kramer

Title: Acting Vice President, Engineering, Production & Distribution

Firm: Northern Kentucky Water District

Street/P.O. Box: 2835 Crescent Springs Road, P.O. Box 18640

City & Zip Code: Erlanger, KY 41018-0640

Telephone: (859) 426-27234

Email Address: akramer@nkywater.org

**6. CONSULTING ENGINEER** (complete if different from No. 4 above)

Name of Firm: NA

Contact Person: \_\_\_\_\_

Street/P.O. Box: \_\_\_\_\_

City & Zip Code: \_\_\_\_\_

Telephone: \_\_\_\_\_

Email Address: \_\_\_\_\_

To the best of my knowledge and belief, data contained in this application are true and correct; the document has been duly authorized by the legal applicant.

Jack Bragg, V.P. Finance & Support Services  
Typed Name and Title

  
Signature of Legal Applicant

8/8/15  
Date

**7. PROJECT DESCRIPTION**

A. Describe the project and identify what is being constructed. Briefly explain the need for the project. Refer to Environmental Information Document (EID) if necessary (attach maps).

~~This project includes 3 water main replacement projects on 4 streets, replacement of a 36" cross-country transmission main with a 24" main, and SCADA improvements involving approximately 40 sites. The project will bid in phases: Contract 1 - Buttermilk Pike Water Main Replacement includes replacement of 6" main with 8" main on 2 streets in Kenton County as follows: 2,775 ft along Buttermilk Pike from Collins Rd to Rogers Rd; and Rogers Road from Buttermilk Pike to Villa Marie Lane; Contract 2 - 36" Concrete Water Main Replacement for 2,250 ft of 36" transmission main with new 24" cross-county main in Kenton County; Contract 3 - Ann Street and Putnam Street Water Main Replacement which will replace 2,160 ft of 4" main with 8" on Ann St from 8th St to 12th St and 1,090 ft of 4" main with 8" main on Putnam St in Campbell County; and Contract 4 - SCADA Improvements in Campbell and Kenton Counties which will replace equipment for security and remote operation of the distribution system including programmable logic controllers, radio equipment, and sensors and water quality analyzers for approximately 40 sites with tanks, pump stations, or meter and regulator vaults.~~

B. Is this project consistent with the EID approved by DOW?

NA

C. Discuss the environmental benefits that will result from this project.

NA

---

**8. PROJECT SCHEDULE (Indicate Actual or Target dates)**

- A. Environmental Information Document submitted to DOW Target January 30, 2016
- B. Plans/Specs submitted to DOW Target January 1 – July 1, 2016
- C. Bid advertisement Target Feb 1 – August 1, 2016
- D. Bid opening Target March 1 – September 1, 2016
- E. Construction start Target April 1 – October 1, 2015
- F. Construction completion Target August 2016 – Dec 2017

9. Does the Public Service Commission (PSC) have jurisdiction over this project?

Yes     No (Yes for Contracts 2 and 4)

If yes, describe their role and estimated schedule of review:

Submit Contract 2 - 36" Concrete Water Main Replacement to PSC by April 1, 2016. Bids expire 90 days after opening or approximately July 1, 2016 when Certificate of Convenience and Necessity would be expected. Submit Contract 4 - SCADA Improvements in Campbell and Kenton Counties to PSC by August 1, 2016 with Certificate of Convenience and Necessity expected around 90 days after bid opening or around November 1, 2016.

10. Is the system under sanction from any enforcement agency?

Yes     No

If yes, describe below, listing amounts and dates of any fines paid to date:

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

If under enforcement, is the project schedule in accordance with the court order?

Yes     No

11. Will the applicant utilize its own workforce to perform any services on the proposed project (Force Account)?     Yes     No

If yes, you must receive prior approval from DOW.

12. If new service is proposed, will the users have access to a public sewer system?     Yes     No

If not, how will sewer service be handled?

Not Applicable

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

**13. DEMOGRAPHICS**

A. Current Population of Service Area: 255,000

B. Projected Population of Service Area: 5 Year 260,000                      20 Year 266,000

C. Number of Households in Service Area remaining unserved: 1,482

D. Median Household Income of Applicant's Jurisdiction \$54,288

## Part II – Financial Analysis

1. List all sources of water. If water is received from another system, describe the contractual relationship (e.g.; usage, price per gallon) and attach a copy of the agreement.

Sources are the Ohio River and Licking River. No water is purchased from another system.

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2. Is the applicant's water being treated by another system?  Yes  No

If yes, describe the contractual relationship (e.g.; usage, price per gallon) and attach a copy of the agreement.

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3. Does the applicant treat another system's water?  Yes  No

If yes, describe the contractual relationship (e.g.; usage, price per gallon) and attach a copy of the agreement.

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4. Does the applicant supply water to any other system/community?  Yes  No

If yes, complete the following and attach a copy of the agreement:

<u>Community</u>	<u># of Customers</u>	<u>Revenue Derived</u>
Pendleton County WD	2,241	\$281,998
City of Walton	1,500	\$567,699
Bullock Pen WD	6,638	\$588,014

5. A. Number of entities currently served (Please answer with exact number):  
76,543 Residential 4,525 Commercial 110 Industrial
- B. Number of entities to be added to customer base as a result of proposed project (qualify if numbers are approximate).
- No. of **Residential** Area:  
0 \_\_\_\_\_
- No. of **Commercial** Area:  
0 \_\_\_\_\_
- No. of **Industrial** Area:  
0 \_\_\_\_\_
- C. Attach evidence of new customers' willingness to connect, such as signup sheets, letters of interest or news articles. NA
- D. If legal action is required to force connection, under what legal authority will it be accomplished?  
NA

6. **RATE STRUCTURE** (attach 2 copies each of current and proposed water **and** wastewater rate ordinances)

- A. Date of last rate adjustment/amount of adjustment for an average residential customer.
- Water: \$0.15 / 1,000 gal Date: January 1, 2014
- Wastewater: \$                      / 1,000 gal Date:
- Note: If billing is based on cubic feet please convert to gallons.**
- B. Current monthly charge for 4,000 gallons.
- Water: \$36.93 / 4,000 gal
- Wastewater: \$                      / 4,000 gal
- C. Have any public meetings been held on the proposed project for rate increases?  Yes  No  
 If yes, attach a copy of the minutes.
- D. Do any users provide more than 5% of the service revenue for the system?  Yes  No  
 If yes, list below:
- | Name      | % Service Revenue |
|-----------|-------------------|
| <u>NA</u> | _____             |
| _____     | _____             |
| _____     | _____             |

7. List any proposed new businesses or housing developments in your service area including projected start date, anticipated usage and revenue impact.

NA  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8. Who performs service billings and collection services? If not the applicant, explain and provide a copy of any agreements.

Northern Kentucky Water District self-performs  
\_\_\_\_\_  
\_\_\_\_\_

9. How many present or proposed customers have unmetered service? None for domestic  
How will their services be billed?

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

10. Are revenues and expenses for the system accounted for separately?  Yes  No  
If no, explain accounting procedures used: \_\_\_\_\_

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

**SEPARATION OF ACCOUNTS IS REQUIRED FOR LOAN APPROVAL**

11. A. Is the applicant required to have an annual audit performed?  Yes  No  
If not, explain below:

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

B. What is the date of the last audit completed? December 31, 2014\_\_\_\_\_

C. Provide two copies of each of the last three annual audit reports and/or the audited financial statements.

\_\_\_\_\_



12. How does the applicant anticipate paying the increased debt service, operation and maintenance expenses required for this loan (e.g.; existing revenues, increased customers, higher rates or other special assistance)?

Existing revenues or higher rates

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13. Please calculate additional operation and maintenance expenses needed for first year of operation.

<u>O &amp; M</u> <u>as of last audit</u>	<u>O &amp; M</u> <u>first year of operation</u>	<u>Difference</u>
\$26,689,942 (excl. deprec)	<u>\$27,161,761</u>	<u>\$471,819</u>

14. Describe any operating expense changes that will occur as a result of this project.

None

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15. Provide the following information for any state or federal funds for water and wastewater construction projects received during the past five years.

<u>Date</u> <u>Awarded</u>	<u>Project</u>	<u>Funding</u> <u>Source</u>	<u>Amount</u>	<u>Type of</u> <u>Assistance</u>
6/1/2010	WX21117208 Adv Treatment	DWSRF	\$8,000,000	Loan
3/1/2011	WX21117208 Adv Treatment	DWSRF	\$8,000,000	Loan
3/1/2012	WX21117208 Adv Treatment	DWSRF	\$8,000,000	Loan
5/2/2013	WX21037003 Water Main	DWSRF	\$4,000,000	Loan
1/1/2009	Automated Meter Reading	DWSRF-B	\$6,000,000	Loan
7/1/2013	WX21117211 Sub M	RD	\$1,733,000	Loan
7/2/2013	WX21117211 Sub M	RD	\$600,000	Grant
2/28/2013	WX21117211 Sub M	CDBG	\$1,000,000	Grant
2/13/2009	WX21117207	HB608	\$500,000	Grant
1/22/2014	WX21037004	DWSRF	\$4,000,000	Loan
11/6/2014	WX21037006	DWSRF	\$4,000,000	Loan
2/5/2015	WX21117002	DWSRF-B	\$1,500,000	Loan

16. Please calculate the amount of funds to be set aside annually for replacement costs. This amount should be based on the design life of the system.

Total project cost = \$5,425,000

Design Life = 62.5 years mains, 10 years SCADA, Annual Depreciation Amount = \$338,800

17. LONG-TERM DEBT – Provide the following information on all outstanding debt secured by the Enterprise Fund (water and wastewater and any other utility in the fund).

<u>WATER – See Annual Audits</u>							
<u>Creditor/ Issuer</u>	<u>Date of Issue</u>	<u>Orig Loan/ Bond Size</u>	<u>Principal Balance Outstanding</u>	<u>Interest Rate</u>	<u>Annual Principal Payment</u>	<u>Annual Interest Payment</u>	<u>Date of Final Maturity</u>
Attached _____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

<u>WASTEWATER</u>							
<u>Auditor/ Issuer</u>	<u>Date of Issue</u>	<u>Orig Loan/ Bond Size</u>	<u>Principal Balance Outstanding</u>	<u>Interest Rate</u>	<u>Annual Principal Payment</u>	<u>Annual Interest Payment</u>	<u>Date of Final Maturity</u>
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

<u>OTHER</u>							
<u>Auditor/ Issuer</u>	<u>Date of Issue</u>	<u>Orig Loan/ Bond Size</u>	<u>Principal Balance Outstanding</u>	<u>Interest Rate</u>	<u>Annual Principal Payment</u>	<u>Annual Interest Payment</u>	<u>Date of Final Maturity</u>
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

## Drinking Water SRF Project Cost Summary

**Project Title:** Campbell and Kenton County Water Main and Storage Tank Improvements

**WRIS#:** WX21117003

**Project Budget: Estimated** \$5,425,000 8/10/2015      **As Bid** TBD\* enter date      **Revised** \$5,425,000 8/10/2015

Cost Classification	DWSRF KIA Loan	Funding Source 1	Funding Source 2	Funding Source 3	Funding Source 4	Funding Source 5	Local Funds	Unfunded Costs	Total
1 Administrative Expenses		\$5,000							\$5,000
2 Legal Expenses		\$4,000							\$4,000
3 Land, Appraisals, Easements		\$0							\$0
4 Relocation Expenses & Payments									\$0
5 Planning									\$0
6 Engineering Fees – Design		\$430,000							\$430,000
7 Engineering Fees – Construction		\$25,000							\$25,000
8 Engineering Fees – Inspection		\$36,000							\$36,000
9 Engineering Fees – Other									\$0
10 Construction	\$4,000,000	\$525,000							\$4,525,000
11 Equipment		0							\$0
12 Miscellaneous		0							\$0
13 Contingencies (10%)		\$400,000							\$400,000
<b>Total</b>	<b>\$4,000,000</b>	<b>\$1,425,000</b>							<b>\$5,425,000</b>

Funding Sources	Amount	Date Committed
1 Northern Kentucky Water District	\$1,425,000	
2		
3		
4		
5		
<b>Total</b>	<b>\$1,425,000</b>	

Local Funding Sources	Amount	Date Committed
1		
2		
3		
<b>Total</b>		

Cost Categories	Funding Source	Total Cost
Treatment		
Transmission and Distribution	1, KIA	\$2,345,000
Hydrants	1, KIA	\$80,000
Other (SCADA)	1, KIA	\$3,000,000
Purchase of Systems		
Restructuring		
Land Acquisition		
<b>Total Costs</b>		<b>\$5,425,000</b>

**Total Funding**      **\$5,425,000**

# Northern Kentucky Water District

August 11, 2015

Mr. John Covington  
Executive Director  
Kentucky Infrastructure Authority  
1024 Capital Center Drive, Suite 340  
Frankfort, KY 40601

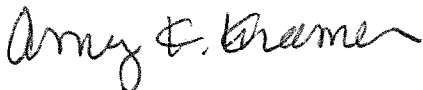
Re: Letter of Commitment for DWSRF Loan – Campbell and Kenton County Water Main Replacement and SCADA Improvements Project, WX21117003

Dear Mr. Covington:

Please accept this letter as the Northern Kentucky Water District commitment to provide local funds to complete the “Campbell and Kenton County Water Main Replacement and SCADA Improvements Project – WX21117003”. The Northern Kentucky Water District is applying for a \$4,000,000 State Revolving Fund loan and will provide the additional funding needed, which is estimated at this time to be \$1,425,000 in future bonds funds as part of the overall project funding package.

Should you have any questions or need additional information, please feel free to contact this office at (859) 578-9898. We appreciate your consideration in supporting this project.

Sincerely,



Amy K. Kramer, P.E.  
Acting Vice President, Engineering, Production & Distribution

akk

**2 EPA FORM 4700-4 CIVIL RIGHTS  
COMPLIANCE**



## Instructions for EPA FORM 4700-4 (Rev. 04/2009)

### General

Recipients of Federal financial assistance from the U.S. Environmental Protection Agency must comply with the following statutes and regulations.

Title VI of the Civil Rights Acts of 1964 provides that no person in the United States shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance. The Act goes on to explain that the statute shall not be construed to authorize action with respect to any employment practice of any employer, employment agency, or labor organization (except where the primary objective of the Federal financial assistance is to provide employment).

Section 13 of the 1972 Amendments to the Federal Water Pollution Control Act provides that no person in the United States shall on the ground of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under the Federal Water Pollution Control Act, as amended. Employment discrimination on the basis of sex is prohibited in all such programs or activities.

Section 504 of the Rehabilitation Act of 1973 provides that no otherwise qualified individual with a disability in the United States shall solely by reason of disability be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance. Employment discrimination on the basis of disability is prohibited in all such programs or activities.

The Age Discrimination Act of 1975 provides that no person on the basis of age shall be excluded from participation under any program or activity receiving Federal financial assistance. Employment discrimination is not covered. Age discrimination in employment is prohibited by the Age Discrimination in Employment Act administered by the Equal Employment Opportunity Commission.

Title IX of the Education Amendments of 1972 provides that no person in the United States on the basis of sex shall be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance. Employment discrimination on the basis of sex is prohibited in all such education programs or activities. Note: an education program or activity is not limited to only those conducted by a formal institution.

40 C.F.R. Part 5 implements Title IX of the Education Amendments of 1972.

40 C.F.R. Part 7 implements Title VI of the Civil Rights Act of 1964, Section 13 of the 1972 Amendments to the Federal Water Pollution Control Act, and Section 504 of The Rehabilitation Act of 1973.

The Executive Order 13166 (E.O. 13166) entitled; "Improving Access to Services for Persons with Limited English Proficiency" requires Federal agencies work to ensure that recipients of Federal financial assistance provide meaningful access to their LEP applicants and beneficiaries.

### Items

"Applicant" means any entity that files an application or unsolicited proposal or otherwise requests EPA assistance. 40 C.F.R. §§ 5.105, 7.25.

"Recipient" means any entity, other than applicant, which will actually receive EPA assistance. 40 C.F.R. §§ 5.105, 7.25.

"Civil rights lawsuits and administrative complaints" means any lawsuit or administrative complaint alleging discrimination on the basis of race, color, national origin, sex, age, or disability pending or decided against the applicant and/or entity which actually benefits from the grant, but excluding employment complaints not covered by 40 C.F.R. Parts 5 and 7. For example, if a city is the named applicant but the grant will actually benefit the Department of Sewage, civil rights lawsuits involving both the city and the Department of Sewage should be listed.

"Civil rights compliance review" means any review assessing the applicant's and/or recipient's compliance with laws prohibiting discrimination on the basis of race, color, national origin, sex, age, or disability.

Submit this form with the original and required copies of applications, requests for extensions, requests for increase of funds, etc. Updates of information are all that are required after the initial application submission.

If any item is not relevant to the project for which assistance is requested, write "NA" for "Not Applicable."

In the event applicant is uncertain about how to answer any questions, EPA program officials should be contacted for clarification.

\* Questions VII – XI are for informational use only and will not affect an applicant's grant status. However, applicants should answer all questions on this form. (40 C.F.R. Parts 5 and 7).

\*\* Note: Signature appears in the Approval Section of the EPA Comprehensive Administrative Review For Grants/Cooperative Agreements & Continuation/Supplemental Awards form.

Approval indicates, in the reviewer's opinion, questions I – VI of Form 4700-4 comply with the preaward administrative requirements for EPA assistance.

### "Burden Disclosure Statement"

EPA estimates public reporting burden for the preparation of this form to average 30 minutes per response. This estimate includes the time for reviewing instructions, gathering and maintaining the data needed and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to U.S. EPA, Attn: Collection Strategies Division (MC 2822T), Office of Information Collection, 1200 Pennsylvania Ave., NW, Washington, D.C. 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

The information on this form is required to enable the U.S. Environmental Protection Agency to determine whether applicants and prospective recipients are developing projects, programs and activities on a nondiscriminatory basis as required by the above statutes and regulations.

## 107 INTERNAL COMPLAINTS

The District wants you to discuss your work concerns with management. Your supervisor is available to address issues in the workplace. If you are unable to resolve these concerns with your supervisor, or if you are uncomfortable approaching your supervisor, please contact Human Resources or the District President/CEO. For discrimination and harassment concerns, report these issues under the District's Equal Employment Opportunity and Lawful Employment Practices policy and the District's Anti-Harassment policy, respectively.



## 402 ANTI-HARASSMENT

The District recognizes an employee's right to a work place free of unlawful harassment. Harassment on the basis of one's age (40 or over), HIV/AIDS, race, color, religion, national origin, disability, sex, pregnancy, sexual orientation, genetic information, or other legally protected classification is against the law. Harassment in retaliation for opposing or complaining about discrimination or participating in discrimination legal proceedings, or for exercising any legally protected right related to employment, is also against the law. Disciplinary action, up to and including termination of employment, will be taken against employees who violate this policy. The District prohibits wide ranges of inappropriate comments and conduct that would not necessarily be unlawful and would not in and of themselves be unlawful harassment.

Slurs, jokes, or other verbal or physical conduct based on age (40 or over), HIV/AIDS, race, color, religion, national origin, disability, sex, pregnancy, sexual orientation, gender identity, genetic information, or other legally protected classification are prohibited. Such incidents may contribute to a hostile or offensive working environment, and may in some rare cases constitute unlawful harassment. Sexual harassment may also occur when submission to or rejection of such conduct is used as a basis for employment decisions. The District will not tolerate or condone such conduct, nor does it tolerate or condone sexual pressures that utilize job status as a factor in any employment-related decision. The District also will not permit harassment (e.g., slurs, jokes, verbal or physical conduct) in retaliation for opposing or complaining about discrimination, participating in discrimination legal proceedings, or for exercising any legally protected employment right.

Any employee who believes that he or she has been subjected to inappropriate conduct or comments, or who believes that prohibited harassment has occurred, or who has witnessed such misconduct in the workplace, whether committed by an employee or otherwise, must immediately report the incident to the Human Resources Department or to the President/CEO. All reports will be promptly and thoroughly investigated and will be treated confidentially to the extent consistent with a thorough investigation. The District will not authorize or permit any form of retaliation against any employee who has made a good faith report under this policy.

### **3 AUTHORIZING RESOLUTION**

**RESOLUTION  
OF THE  
NORTHERN KENTUCKY WATER DISTRICT**

Campbell and Kenton County Water Main Replacement and SCADA Improvements  
WX21117003

**A Resolution Authorizing The Northern Kentucky Water District To File A  
Loan Application And Appointing Its Vice-President As Its Official Project  
Representative With Regard To The Drinking Water State Revolving Fund  
Project**

WHEREAS, the Northern Kentucky Water District (the "District") proposes to provide upgraded drinking water service for industrial, institutional, commercial, and residential growth within its service area, and

WHEREAS, the District endorses said proposed service, and,

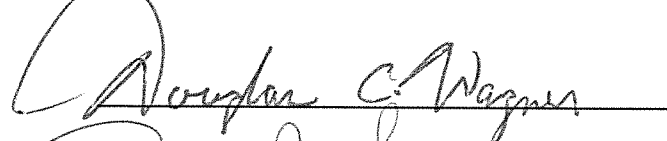
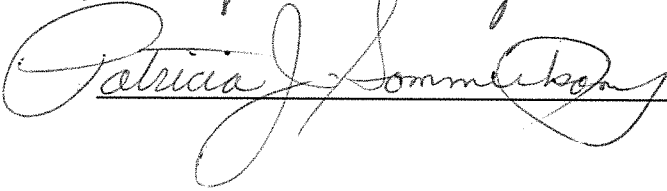
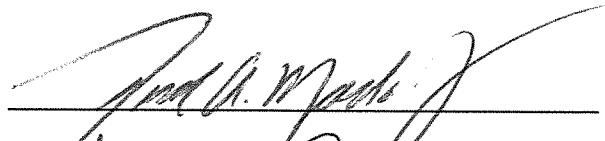

WHEREAS, under the terms of the Safe Drinking Water Act Amendments of 1996 (Public Law 104-182) and amendments to KRS 224A, the State is authorized to render financial assistance to eligible project applicants by way of capitalization grants from the U. S. Environmental Protection Agency and State match funds comprising the Federally Assisted Drinking Water Revolving Fund (State Revolving Loan Program), This program was established to aid in the construction of drinking water treatment facilities improvements and certain related facilities with consideration for approval to be based on applications submitted through the Kentucky Energy and Environment Cabinet and the Kentucky Infrastructure Authority, and,

WHEREAS, the improvements proposed for construction by the District within its service area are considered eligible for such loan assistance.

NOW THEREFORE, BE IT RESOLVED by the Board of Commissioners of the Northern Kentucky Water District that any current Vice-President of the District and his or her Successors-in-Title are hereby authorized to execute and submit an application through the Kentucky Energy and Environment Cabinet and the Kentucky Infrastructure Authority with such assurances and required supporting data as is necessary to obtain loan assistance from the Federally Assisted Drinking Water Revolving Fund (State Revolving Loan Program) for the proposed water treatment facilities improvements, and are further hereby authorized as the District's Official Project Representative to carry out all necessary negotiations for, and administer, the loan assistance the applicant may obtain from the Federally Assisted Drinking Water Revolving Fund (State Revolving Loan Program).

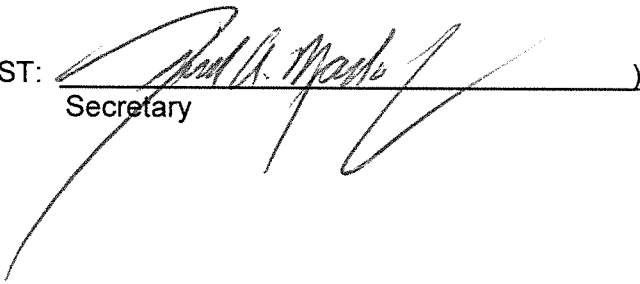
Adopted this 16<sup>th</sup> day of July, 2015 at a regular meeting of the Board of Commissioners of the Northern Kentucky Water District at 2835 Crescent Springs Road, Erlanger, Kentucky.

**Commissioners:**

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

ATTEST:

Secretary

  
\_\_\_\_\_ )

## **4 ASSURANCES**

## ASSURANCES

As the duly authorized representative of the applicant, I certify that the applicant agrees to comply with the laws, regulations, policies and conditions relating to the Federally Assisted Drinking Water Revolving Fund for this project. I also certify that the applicant:

1. Has the legal authority to apply for Federal/State assistance, and the institutional, financial, managerial and technical capability to ensure proper planning, management and completion of the project described in this application.
2. Will give the U.S. Environmental Protection Agency (EPA), the Comptroller General of the United States, and the State, and any other authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (PL 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. 1681-1683 and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), which prohibits discrimination on the basis of disabilities; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. 6101-6107), which prohibits discrimination on the basis of age; (e) KRS Chapter 344 Civil Rights Act; (f) 1990 Americans with Disabilities Act; (g) Uniform Federal Accessibility Standards (U.F.A.S.) 40 CFR 7.70 (as applicable); (h) any other nondiscrimination provisions in the specific statute(s) under which application for assistance is being made, and (i) the requirements of any other nondiscrimination statute(s) which may apply to the application.

6. Will comply, or has already complied, with the requirements of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (PL 91-646) as amended by the Surface Transportation and Uniform Relocation Assistance of 1987 set forth in 49 CFR Part 24 which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participating in purchases.
7. Will comply with the provisions of the Hatch Act (5 U.S.C. 1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
8. Will comply, as applicable, with the provisions of the Copeland Act (40 U.S.C. 276c and 18 U.S.C. 874) and the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-333); regarding labor standards for federally assisted construction sub-agreements.
9. Will comply with all provisions of 40 CFR 32.510 that ensures all prime construction contractors shall certify that subcontracts have not and will not be awarded to any firm that is currently on the List of Parties Excluded from Federal Procurement or Non-procurement Program.
10. Has adopted or will adopt the attached Procurement Guidance on all purchases including consultants and contractors.
11. Will cause to be performed the required financial and compliance audits and submit to the Kentucky Infrastructure Authority.
12. Will provide and maintain competent and adequate engineering supervision at the construction site to ensure that the completed work conforms with the approved plans and specifications and will furnish progress reports and such other information as required.
13. Will operate and maintain the publicly-owned treatment works in accordance with the minimum standards as required by the cognizant Federal, State and local agencies for the operation and maintenance of such facilities; and in accordance with the standards of the Safe Drinking Water Act.

14. Will provide service to any community or area so designated in the approved County Water Supply Plan developed pursuant to 401 KAR 4:220 or identified by a capacity development strategy developed pursuant to PL 104-182, the Safe Drinking Water Act as amended in 1996, without regard to any condition other than user charges developed on an equitable cost basis as acceptable by the Kentucky Infrastructure Authority and the Division of Water.

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Campbell and Kenton County Water Main Replacement and SCADA Improvements

Amy Kramer  
Signature of Authorized Certifying Official

Acting V.P. Engineering  
Title Production & Distribution

Northern Kentucky Water District  
Applicant Organization

8/10/15  
Date Submitted



**5 DEPARTMENT CERTIFICATION**

United States Environmental Protection Agency  
Washington, D.C. 20460

**CERTIFICATION REGARDING  
DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS**


The prospective participant certifies to the best of its knowledge and belief that it and its principals:

- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- (b) Have not within a three year period preceding this proposal been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- (c) Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
- (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.

I understand that a false statement on this certification may be grounds for rejection of this proposal or termination of the award. In addition, under 18 USC Sec. 1001, a false statement may result in a fine of up to \$10,000 or imprisonment for up to 5 years, or both.

Northern Kentucky Water District \_\_\_\_\_  
Loan Recipient

Amy Kramer, Acting Vice President of Engineering, Production & Distribution \_\_\_\_\_  
Typed Name & Title of Authorized Representative

 \_\_\_\_\_  
Signature of Authorized Representative Date 8/10/15

\_\_\_\_\_ I am unable to certify to the above statements. My explanation is attached.

**6 ENGINEERING PROCUREMENT AND  
CONTRACTS**

The Northern Kentucky Water District does not intend to utilize SRF monies to pay for engineering services for Loan F16-027.

Energy and Environment Cabinet  
Department for Environmental Protection  
Division of Water  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, Kentucky 40601

**ENGINEERING PROCUREMENT SYSTEM CERTIFICATION**

<b>PROJECT NAME</b>	<b>PROJECT NUMBER</b>
<b>APPLICANT'S ADDRESS/PHONE NO.</b>	

**SECTION I – INSTRUCTIONS**

The applicant must complete and submit a copy of this form with each application for State Revolving Fund (SRF) Assistance. If the applicant has certified its procurement system to DOW within the past two (2) years and the system has not been substantially revised, complete Section II.A, then sign and date the form.

**SECTION II – CERTIFICATION**

A. I affirm that the applicant has within the past two (2) years certified to DOW that its procurement system complies with the Kentucky Model Procurement Code 45A or KRS 424.260 and that the system meets the requirements in Kentucky Model Procurement Code 45A or KRS 424.260. The date of the applicant's latest certification is \_\_\_\_\_.

B. Based upon my evaluation of the applicant's procurement system, I, as authorized representative of the applicant: *(check one of the following:)*

1. **CERTIFY** that the applicant's procurement system *will meet the requirements of Kentucky state law by following either the Model Procurement Code 45A or KRS 424.260 before undertaking any procurement action with SRF assistance.*
2. **DO NOT CERTIFY THE APPLICANT'S PROCUREMENT SYSTEM.** The applicant agrees to follow the requirements of the Kentucky Model Procurement Code 45A or KRS 424.260 and allow DOW pre-award review of proposed procurement actions that will use the SRF.

*If your community has followed a different Kentucky procurement law, please discuss it with your project administrator at the Division of Water.*

<b>TYPED NAME AND TITLE</b>	<b>SIGNATURE</b>	<b>DATE</b>

## 7. WATER RATES

**SECTION II – RETAIL WATER RATES**

**Northern Kentucky Water District Service Area**

1. Monthly Service Rate

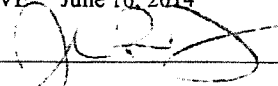
First	1,500 cubic feet	\$4.25 per 100 cubic feet
Next	163,500 cubic feet	\$3.53 per 100 cubic feet
Over	165,000 cubic feet	\$2.72 per 100 cubic feet

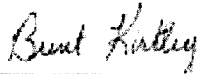
Customers in Subdistrict A	*shall be assessed a monthly surcharge in the amount of	\$8.17
Customers in Subdistrict B	*shall be assessed a monthly surcharge in the amount of	\$17.10
Customers in Subdistrict C	*shall be assessed a monthly surcharge in the amount of	\$17.82
Customers in Subdistrict D	*shall be assessed a monthly surcharge in the amount of	\$30.00
Customers in Subdistrict E	*shall be assessed a monthly surcharge in the amount of	\$30.00
Customers in Subdistrict F	*shall be assessed a monthly surcharge in the amount of	\$24.71
Customers in Subdistrict G	*shall be assessed a monthly surcharge in the amount of	\$28.01
Customers in Subdistrict H	*shall be assessed a monthly surcharge in the amount of	\$30.00
Customers in Subdistrict I	*shall be assessed a monthly surcharge in the amount of	\$30.00
Customers in Subdistrict K	*shall be assessed a monthly surcharge in the amount of	\$9.94
Customers in Subdistrict M	*shall be assessed a monthly surcharge in the amount of	\$30.00 (N)
Customers in Subdistrict R	*shall be assessed a monthly surcharge in the amount of	\$19.91
Customers in Subdistrict RF	*shall be assessed a monthly surcharge in the amount of	\$23.77
Customers in Subdistrict RL	*shall be assessed a monthly surcharge in the amount of	\$35.81

- \*Subdistrict charges are reviewed annually.
- \*Detailed street listing within each Subdistrict can be found under Appendix A.
- \*Service connections on extensions or laterals from a subdistrict street will be assessed the appropriate Subdistrict charge.

2. Quarterly Rates

First	4,500 cubic feet	\$4.25 per 100 cubic feet
Next	490,500 cubic feet	\$3.53 per 100 cubic feet
Over	495,000 cubic feet	\$2.72 per 100 cubic feet

DATE OF ISSUE 7-29-2014  
DATE EFFECTIVE June 16, 2014  
ISSUED BY   
TITLE Vice-President - Finance

<b>KENTUCKY PUBLIC SERVICE COMMISSION</b>
<b>JEFF R. DEROUEN EXECUTIVE DIRECTOR</b>
TARIFF BRANCH 
EFFECTIVE <b>6/16/2014</b>

**SECTION II – RETAIL WATER RATES – Cont'd**

3. Fixed Service Charge

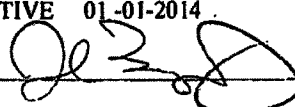
<u>Meter Size</u>	<u>Monthly Service Charge</u>	<u>Quarterly Charge</u>
5/8"	\$14.20	\$28.40
3/4"	\$14.60	\$29.90
1"	\$16.00	\$34.30
1 1/2"	\$18.00	\$40.50
2"	\$22.70	\$56.90
3"	\$54.90	\$177.00
4"	\$68.80	\$221.80
6"	\$101.90	\$327.80
8"	\$137.60	\$447.90
10" and Larger	\$183.00	\$584.80


**SECTION III – WHOLESALE WATER SALES**

Bullock Pen Water District	\$3.26 per 1,000 gallons (or) \$2.44 per 100 cubic feet
City of Walton	\$3.26 per 1,000 gallons (or) \$2.44 per 100 cubic feet
Pendleton County	\$3.26 per 1,000 gallons (or) \$2.44 per 100 cubic feet

**SECTION IV – MISCELLANEOUS SERVICE FEES**

Returned Check Charge	\$20.00
Water Hauling Station	\$5.68 per 1,000 gallons
Service Charge	\$25.00 (See Definitions in Section I-A)
Overtime Charge	\$60.00 (To be applied to Customer account for Request for water turned On or Off outside the normally business hours.)

DATE OF ISSUE 1-1-2014  
 DATE EFFECTIVE 01-01-2014  
 ISSUED BY   
 TITLE Vice-President - Finance

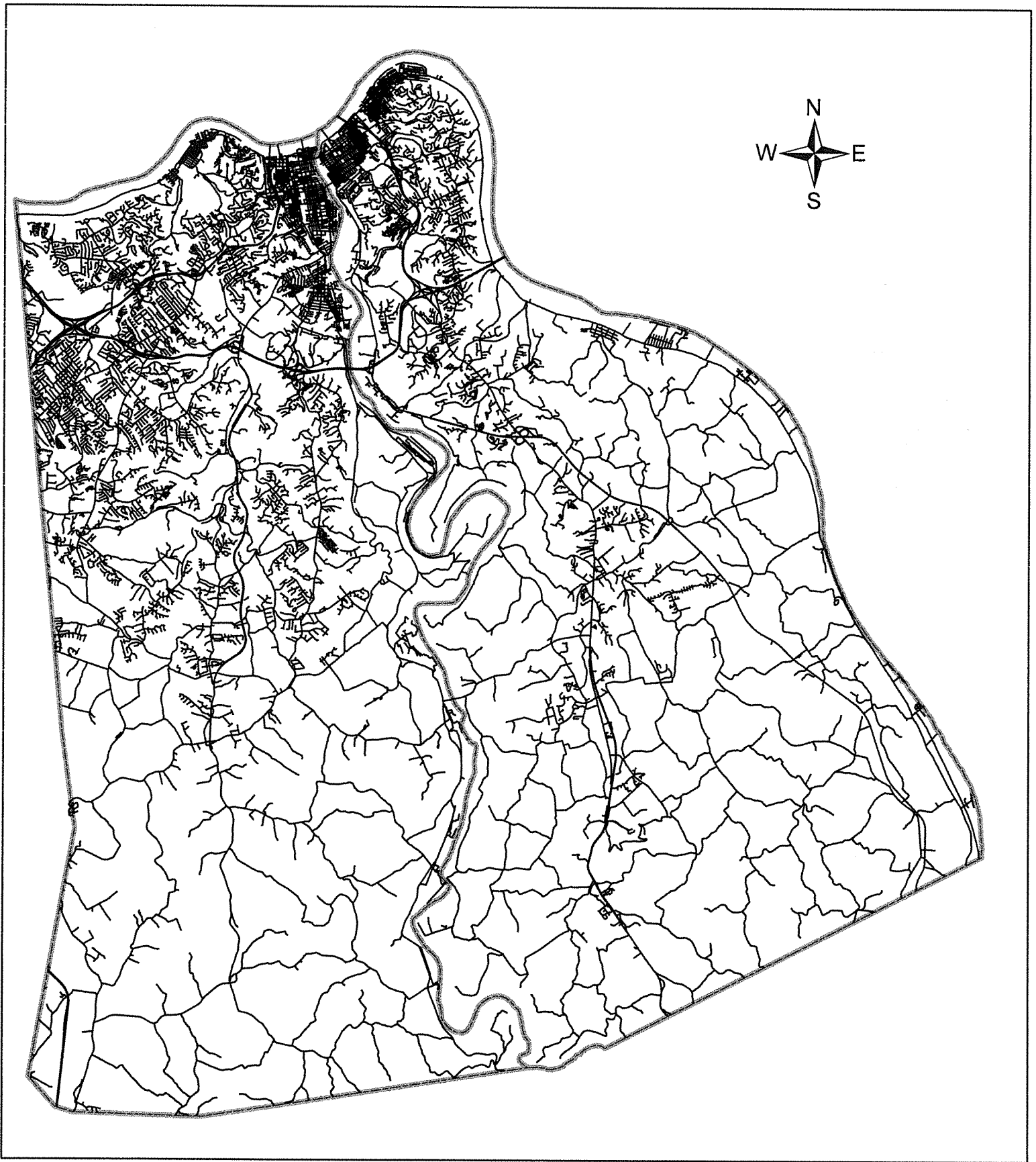
<b>KENTUCKY                  PUBLIC SERVICE COMMISSION</b>
<b>JEFF R. DEROUEN                  EXECUTIVE DIRECTOR</b>
TARIFF BRANCH 
EFFECTIVE <b>1/1/2014</b> PURSUANT TO 807 KAR 5:011 SECTION 9 (1)



**8. AUDIT REPORTS AND FINANCIAL STATEMENTS**

## 9. PROJECT MAPS



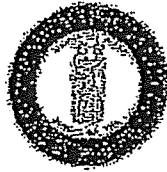


**Contract 4 - Scada Improvements  
Campbell and Kenton County**

## 10. CLEARINGHOUSE

The Northern Kentucky Water District anticipates submitting project SRF16-0027 (WX21117003) to the Kentucky State Clearinghouse by December 31, 2015.

## 11. WHOLESALE AGREEMENTS



Steven L. Beshear  
Governor

Mark David Goss  
Chairman

Robert D. Vance, Secretary  
Environmental and Public  
Protection Cabinet

Commonwealth of Kentucky  
Public Service Commission

John W. Clay  
Vice Chairman

Timothy J. LeDonne  
Commissioner  
Department of Public Protection

211 Sower Blvd.  
P. O. Box 615  
Frankfort, Kentucky 40602-0615  
Telephone: (502) 564-3940  
Fax: (502) 564-3460  
psc.ky.gov

Caroline Pitt Clark  
Commissioner

April 10, 2008

Thomas Nienaber  
Berger, Cox Nienaber  
401 Madison Avenue  
Covington, KY 41011

RE: Filing No. TFS2008-00007  
Water Supply Agreement between Bullock Pen Water District and Northern  
Kentucky Water District.

Dear Thomas Nienaber:

The above referenced filing has been received and reviewed. An accepted copy is enclosed for your files. You may also use the following link to access documents related to this filing.

<http://psc.ky.gov/trf/TRFListFilings.aspx?ID=TFS2008-00007>

Sincerely,

  
Dennis Brent Kirtley  
Tariff Review Branch Manager





ownership of the master meter and meter pit at the additional Point of Delivery will automatically transfer to NKWD without any further action by BPWD or NKWD.

~~B. The master meter and the meter pit located at the existing Point of Delivery were installed by BPWD and subsequently transferred to NKWD. NKWD will own, operate and maintain the master meters and meter pits at each Point of Delivery. NKWD will make annual tests and inspections of the meters and the meter pits and perform such other tests and inspections as NKWD may deem necessary. No correction will be made in the billing to BPWD unless a test or inspection shows that the metering is more than two percent (2%) slow or fast. If any test or inspection shows that the metering is inaccurate by more than two percent (2%) slow or fast, correction will be made to the billing to BPWD for the period during which NKWD and BPWD agree that the inaccuracy existed. If no such agreement is reached, it will be assumed that the error developed progressively from the date of the last meter test or inspection and an appropriate adjustment to billings will be made.~~

C. NKWD will use its best reasonable efforts to provide a delivery pressure of thirty (30) psi at each Point of Delivery, subject to the force majeure events described in Article VII of this Agreement. In the event that NKWD is unable to provide a delivery pressure of thirty (30) psi at each Point of Delivery and such failure to provide a delivery pressure of thirty (30) psi continues for a period in excess of twenty-four (24) consecutive hours or seventy-two (72) cumulative hours in any calendar month, BPWD may provide written notice to NKWD of such failure and BPWD's obligation to purchase a minimum volume or flow rate of water of three hundred thousand (300,000) gallons per day, averaged on a monthly basis, will be suspended for the period of time commencing when BPWD provides such written notice to NKWD and continuing until NKWD is again able to provide a delivery pressure of thirty (30) psi at each Point of Delivery. BPWD may purchase water from other suppliers of water during any such suspension period.

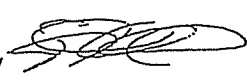
#### ARTICLE IV WATER RATES AND SURCHARGES

A. BPWD shall pay NKWD's water rates and charges for wholesale customers as such rates and charges may be adjusted from time to time. NKWD may, from time to time, increase its water rates and charges, but no rate or charge increase will take effect unless and until it has been reviewed and approved by the PSC.

B. Within three (3) days of the Board of Commissioners of NKWD taking official action to approve the filing of an application with the PSC for an increase in NKWD's rates or charges, NKWD shall notify BPWD of such action. NKWD will provide BPWD with a copy of its application with the PSC for an increase in its rates or charges within three (3) days of its filing of the application with the PSC.

C. BPWD shall pay NKWD for the actual quantity of water purchased from NKWD unless BPWD's actual consumption for any month does not exceed three hundred thousand (300,000) gallons per day, averaged on a monthly basis, in which case BPWD shall pay

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By   
Executive Director

to NKWD for the minimum volume or flow rate it is required to purchase under this Agreement which is three hundred thousand (300,000) gallons per day, averaged on a monthly basis.

D. In addition to paying to NKWD the water rates and charges described in this Article IV, BPWD shall pay to NKWD each month an amount equal to ten (10) surcharges for NKWD's Subdistrict C expansion project until the expiration of the forty (40) year surcharge term for each Point of Delivery. The Parties understand and agree that the amount of each surcharge may vary over time but will not exceed thirty dollars (\$30.00) per month. The Parties further understand and agree that BPWD's obligation to pay surcharges may vary over time but will not exceed three hundred dollars (\$300.00) per month for each Point of Delivery. NKWD will recalculate the amount of each surcharge annually. In the event that the surcharge for NKWD's Subdistrict C expansion project is eliminated due to prepayment, BPWD's obligation to pay the surcharges described in this Section IV.D will be terminated.

#### ARTICLE V BILLING AND PAYMENT

Once each month, NKWD shall submit to BPWD an invoice for the amount due to NKWD under the terms of this Agreement for the prior month. All invoices shall be due and payable by BPWD to NKWD within twenty-one (21) days of receipt. A ten percent (10%) penalty shall be added to each invoice that is not paid within twenty-one (21) days of its receipt by BPWD.

#### ARTICLE VI AUDITS

NKWD shall cause its accounts to be audited by a firm of certified public accountants on an annual basis. A copy of the certified public accountants' audit report will be supplied to BPWD upon BPWD's written request. BPWD may cause the accuracy of any cost charged to it to be verified, at BPWD's own expense, by an examination of the accounts and records kept by NKWD, and NKWD shall make its accounts and records available to BPWD at reasonable times and locations for such purposes.

#### ARTICLE VII FORCE MAJEURE

Except for the payments required of BPWD under Articles IV and V above, either Party may suspend its performance under this Agreement if such Party's performance is prevented or delayed by a cause or causes beyond the reasonable control of such Party which could not have been avoided by the exercise of reasonable diligence by such Party. Such causes may include, but are not limited to, acts of God, acts of war, riot, fire, explosion, lockouts or other labor disturbances, breakage or damage to machinery or pipelines or partial or entire failure of water system. The Party asserting a right to suspend performance must, within a reasonable time of acquiring knowledge of the cause requiring the suspension, notify the other Party in writing of the cause of suspension, the performance suspended, and the anticipated duration of the suspension. Performance shall be suspended only during the time that it is prevented or delayed.

By   
Executive Director

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by the type of cause or causes described in this Article VII, and the Party whose performance is prevented or delayed shall endeavor to remove or overcome the cause or causes with all reasonable dispatch. Should NKWD suspend its performance in supplying water to BPWD, BPWD's obligations to pay for the water rates and surcharges specified in Article IV of this Agreement shall be suspended for the duration of NKWD's suspended performance. In the event of a system-wide shortage of water in NKWD's system, BPWD's supply of water under this Agreement will be reduced in the same ratio or proportion that the supply to NKWD's retail customers is reduced.

**ARTICLE VIII**  
**RESPONSIBILITY AND INDEMNIFICATION**

NKWD and BPWD shall be solely responsible for the construction, operation and maintenance of their respective water systems. NKWD and BPWD, to the extent permitted by law, expressly agree to defend, indemnify and hold harmless the other against all claims, demands, costs or expenses asserted by third parties and proximately caused by their negligence or willful misconduct in connection with the construction, operation or maintenance of their respective water systems.

**ARTICLE IX**  
**RESALE OF WATER**

BPWD may resell any water it purchases from NKWD to any third party, subject to the written approval of NKWD, which approval will not be unreasonably withheld.

**ARTICLE X**  
**WATER LINE PROJECTS IN SOUTHERN KENTON COUNTY**

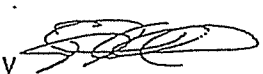
A. Subject to the terms and conditions of this Agreement, NKWD grants to BPWD the right and authority to install water lines and appurtenances and to serve customers within the Special Area depicted on attached Exhibit A, which is incorporated herein.

The grant of right and authority contained in this Article X is not intended to be an extension of BPWD's territory pursuant to KRS 74.115.

B. Projects for the installation of water lines and appurtenances within the Special Area may be designated and developed by BPWD at its discretion, considering standard engineering practices, customer potential and other factors. All projects and the location, proposed rates, surcharges and design of all projects shall be subject to the approval of NKWD, which approval will not be unreasonably withheld. The construction of all water lines and appurtenances in the Special Area by BPWD shall meet the minimum construction standards and specifications adopted by NKWD and in effect at the time of construction.

C. NKWD and BPWD shall cooperate in obtaining all necessary approvals from all governmental entities possessing authority and jurisdiction to approve or disapprove the construction of water lines and appurtenances in the Special Area by BPWD.

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OF KENTUCKY  
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Executive Director

D. Nothing in this Agreement shall restrict or prohibit NKWD from extending its existing water lines and appurtenances to serve customers within the Special Area if BPWD has not already installed water lines and appurtenances and is serving such customers.

E. Nothing in this Agreement shall obligate or otherwise require BPWD to install or extend new water lines in the Special Area.

#### ARTICLE XI

#### POSSIBLE PURCHASE OF EXISTING BPWD WATER LINES AND APPURTENANCES

A. BPWD currently owns and operates the water lines and appurtenances and related easements located in southern Kenton County as depicted on attached Exhibit C, which is incorporated herein (hereinafter the "Existing Lines")

B. Should BPWD at any time decide to sell all or any part of the Existing Lines NKWD may purchase all or any part of the Existing Lines upon such terms and conditions as may be mutually agreed upon by BPWD and NKWD. Upon any such purchase, all affected customers shall become customers of NKWD without any additional payment to BPWD for such customers.

C. In the event that, at any time during the term of this Agreement or any renewal or extension thereof, BPWD entertains an offer or proposal from or to any person or entity to acquire or purchase all or any part of the Existing Lines, then BPWD shall notify NKWD of the offer or proposal in writing, setting forth all of the terms of such offer or proposal, including the price.


D. The sale of all or any part of the Existing Lines from BPWD to NKWD or to any other person or entity shall be subject to the approval of all governmental agencies possessing authority and jurisdiction to approve or disapprove of such sale at the time of sale.

E. Should BPWD sell all or any part of the Existing Lines to a person or entity other than NKWD, BPWD shall, prior to the sale of all or any part of the Existing Lines, ensure that its contract for sale of the Existing Lines to such other person or entity requires such other person or entity to purchase all water supplied to and through the Existing Lines from NKWD until at least December 1, 2040.

#### ARTICLE XII

#### POSSIBLE PURCHASE OF NEW BPWD WATER LINES AND APPURTENANCES

A. All water lines and appurtenances and related easements owned and operated by BPWD in southern Kenton County, including those installed or acquired after the Effective Date, which are not expressly included among the Existing Lines, as described in Article XI above and depicted on attached Exhibit C, shall be known hereinafter as the "New Lines."

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OF KENTUCKY  
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SECTION 9 (1)  
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B. Should BPWD at any time decide to sell all or any part of the New Lines, NKWD shall have the right to purchase such New Lines from BPWD, provided that NKWD either: (1) also purchases the Existing Lines from BPWD on such terms and conditions negotiated with BPWD; or (2) is able to serve the New Lines from NKWD's system without purchasing the Existing Lines. The purchase price for all or any part of the New Lines shall be equal to the initial, actual costs paid by BPWD for the water lines and appurtenances and related easements and any subsequent, actual costs paid by BPWD for improvements to them, based on a one hundred (100) year depreciation of the actual and unreimbursed construction costs of BPWD. The actual costs will not include any contributions toward the cost of installation from grants, service installations paid for through new service/tap fees, Fiscal Court contributions or any other sources of contribution toward the costs of the New Lines. Upon any such purchase, all affected customers shall become customers of NKWD without any additional payment to BPWD for such customers.

C. In the event that, at any time during the term of this Agreement or any renewal or extension thereof, BPWD entertains an offer or proposal from or to any person or entity to acquire or purchase all or any part of the New Lines, then BPWD shall notify NKWD of the offer or proposal in writing, setting forth all of the terms of such offer or proposal, including the price.

D. The sale of all or any part of the New Lines from BPWD to NKWD or to any other person or entity shall be subject to the approval of all governmental agencies possessing authority and jurisdiction to approve or disapprove of such sale at the time of sale.

E. Should BPWD sell all or any part of the New Lines to a person or entity other than NKWD, BPWD shall, prior to the sale of all or any part of the New Lines, ensure that its contract for sale of the New Lines to such other person or entity requires such other person or entity to purchase all water supplied to and through the New Lines from NKWD until at least December 1, 2040.


**ARTICLE XIII**  
**MERGER OR SALE OF BPWD ASSETS**

A. In the event that, at any time during the term of this Agreement or any renewal or extension thereof, BPWD entertains an offer or proposal from or to any person or entity to merge with BPWD or to acquire all or substantially all of BPWD's assets, then BPWD shall notify NKWD in writing of the offer or proposal, setting forth all of the terms of such offer or proposal, including the price

B. Should BPWD merge with a person or entity other than NKWD, then BPWD shall ensure that the contract for merger requires all of the terms and conditions of this Agreement, and particularly, without limitation, the obligations of Sections I, A and IV, B of this Agreement, to be binding on the person or entity resulting from such merger.

C. Any sale of all or substantially all of the assets of BPWD are subject to NKWD's right to purchase the New Lines under Section XII.B of this Agreement, but should BPWD sell

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Executive Director

all or substantially all of its assets to a person or entity other than NKWD, then BPWD shall ensure that its contract for sale requires such person or entity to purchase all water supplied to or through the New Lines and the Existing Lines (to the extent the New Lines and the Existing Lines have not been purchased by NKWD) to be purchased from NKWD until at least December 1, 2040. Should BPWD sell all or substantially all of its assets to a person or entity other than NKWD, then BPWD and its purchaser shall be relieved of any and all terms and conditions of this Agreement except for those requirements set forth in this Section XIII.C.

**ARTICLE XIV**  
**COOPERATION BETWEEN NKWD AND BPWD**

NKWD and BPWD agree to work together cooperatively to ensure that the purposes of this Agreement are achieved for the benefit of their respective customers and their respective water systems. Such cooperation may consist of the exchange of laboratory services, meter testing services, emergency field services, equipment purchase opportunities, billing assistance, treatment plant assistance, water quality compliance services and other services and assistance, all on such terms and conditions as may be mutually agreed upon by the Parties. The Parties will also work together to explore the possibility of other points of delivery in order to provide more efficient water service between NKWD and BPWD.

**ARTICLE XV**  
**NOTICES**

Any notices allowed or required under this Agreement shall be in writing and shall be hand-delivered or mailed by certified mail, return receipt requested. Notice shall be effective upon receipt. Notices shall be given to the Parties at the following addresses or such other addresses as may be designated by the Parties in writing:

To NKWD:

President/CEO  
Northern Kentucky Water District  
2835 Crescent Springs Road  
P.O. Box 18640  
Erlanger, Kentucky 41018

To BPWD:

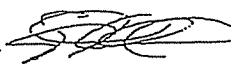
General Manager  
Bullock Pen Water District  
One Farrell Drive  
Crittenden, Kentucky 41030

**ARTICLE XVI**  
**ENTIRE AGREEMENT**

This Agreement constitutes the entire understanding and agreement between the Parties and supersedes all other understandings and agreements between the Parties with respect to the subject matter of this Agreement. There are no understandings, representations or warranties of any kind, express or implied, not expressly set forth in this Agreement. No modification of this Agreement shall be effective unless in writing and signed by both Parties.

9.

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KENTUCKY  
2/1/2008  
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SECTION 9 (1)

By   
Executive Director

ARTICLE XVII  
WAIVERS

The failure of any Party at any time to enforce any provision of this Agreement, to exercise its rights under any provision, or to require a certain performance of any provision, shall in no way be construed as a waiver of such provision, nor in any way affect the validity of this Agreement or the right of a Party thereafter to enforce each and every provision.

ARTICLE XVIII  
BINDING NATURE; CONSENT REQUIRED FOR ASSIGNMENT

This Agreement shall be binding on the Parties and on their successors and assigns. This Agreement shall not be assigned by either Party without the written consent of the other Party.

ARTICLE XIX  
AUTHORITY TO EXECUTE AGREEMENT

NKWD possesses full authority to enter this Agreement as indicated by the lawful resolution of NKWD attached hereto as Exhibit D. BPWD possesses full authority to enter this Agreement as indicated by the lawful resolution of BPWD attached hereto as Exhibit E.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be duly executed in two originals, one for each Party.

NORTHERN KENTUCKY WATER DISTRICT

By: 

Printed Name: Joseph J. Koelton

Title: Chairman

BULLOCK PEN WATER DISTRICT

By: 

Printed Name: Bobby Burgess

Title: Chairman

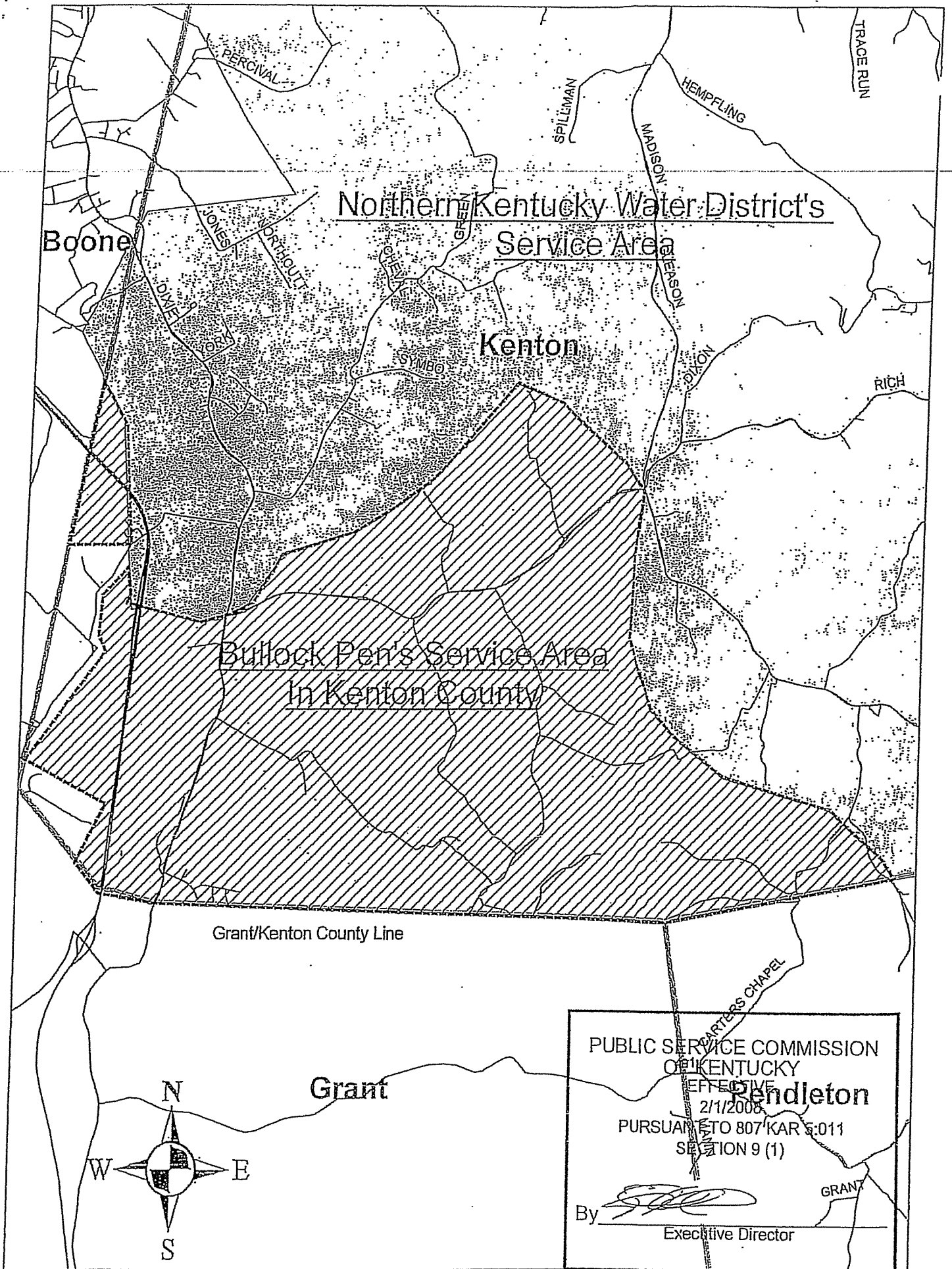
- Exhibit A -- Special Area in Kenton County
- Exhibit B -- Areas in Boone, Grant and Pendleton Counties
- Exhibit C -- Existing Lines in southern Kenton County
- Exhibit D -- Authorizing Resolution of NKWD
- Exhibit E -- Authorizing Resolution of BPWD

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2/1/2008  
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SECTION 9 (1)

By: 

Executive Director





Northern Kentucky Water District's  
Service Area

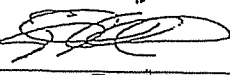
Kenton

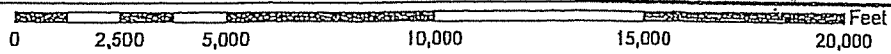
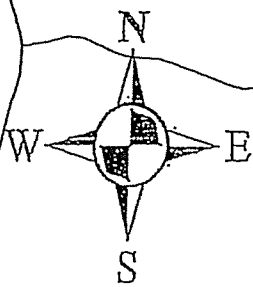
Bullock Pen's Service Area  
In Kenton County

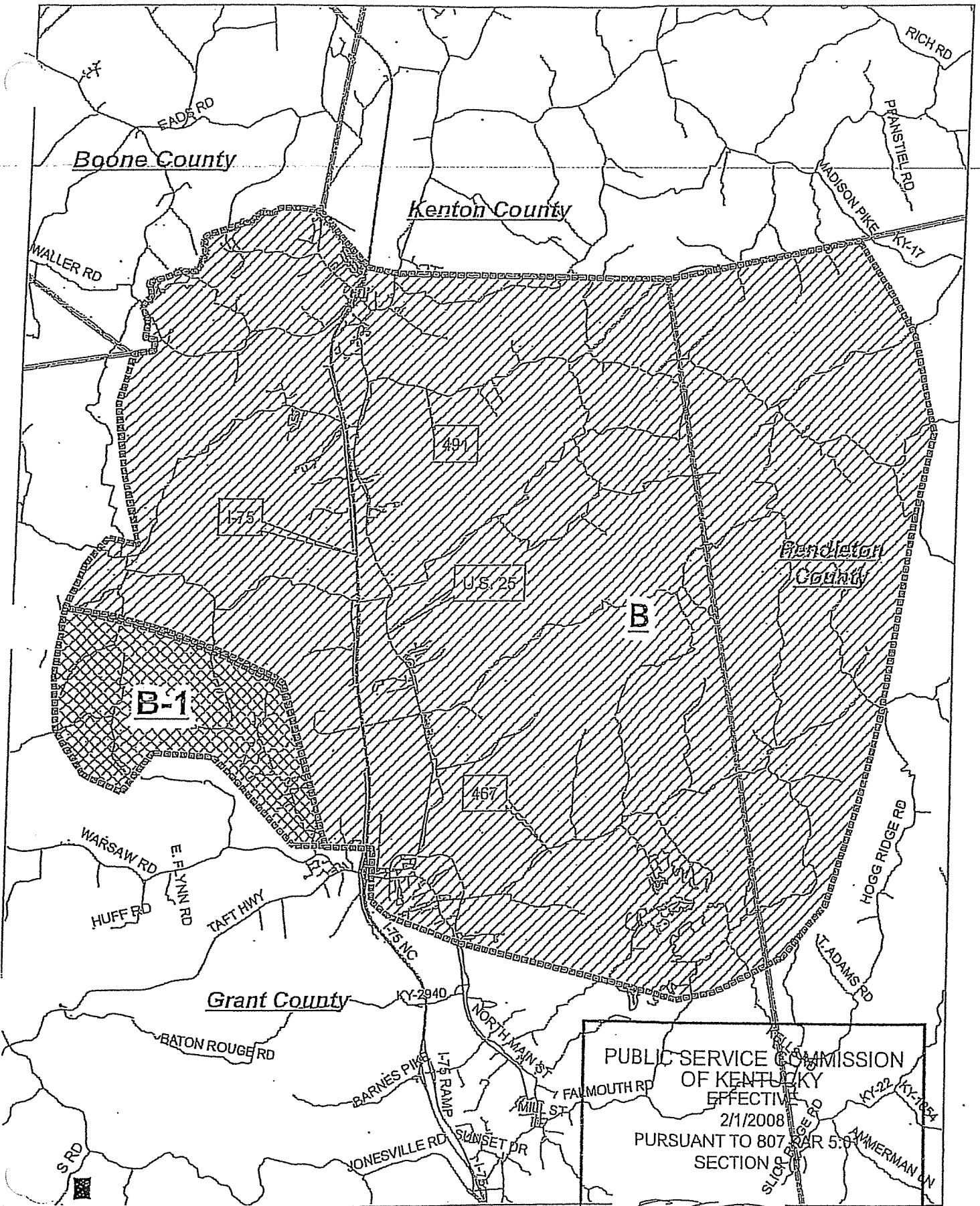
Grant/Kenton County Line

Grant

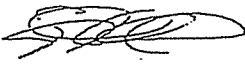
PUBLIC SERVICE COMMISSION  
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EFFECTIVE 2/1/2008  
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SECTION 9 (1)

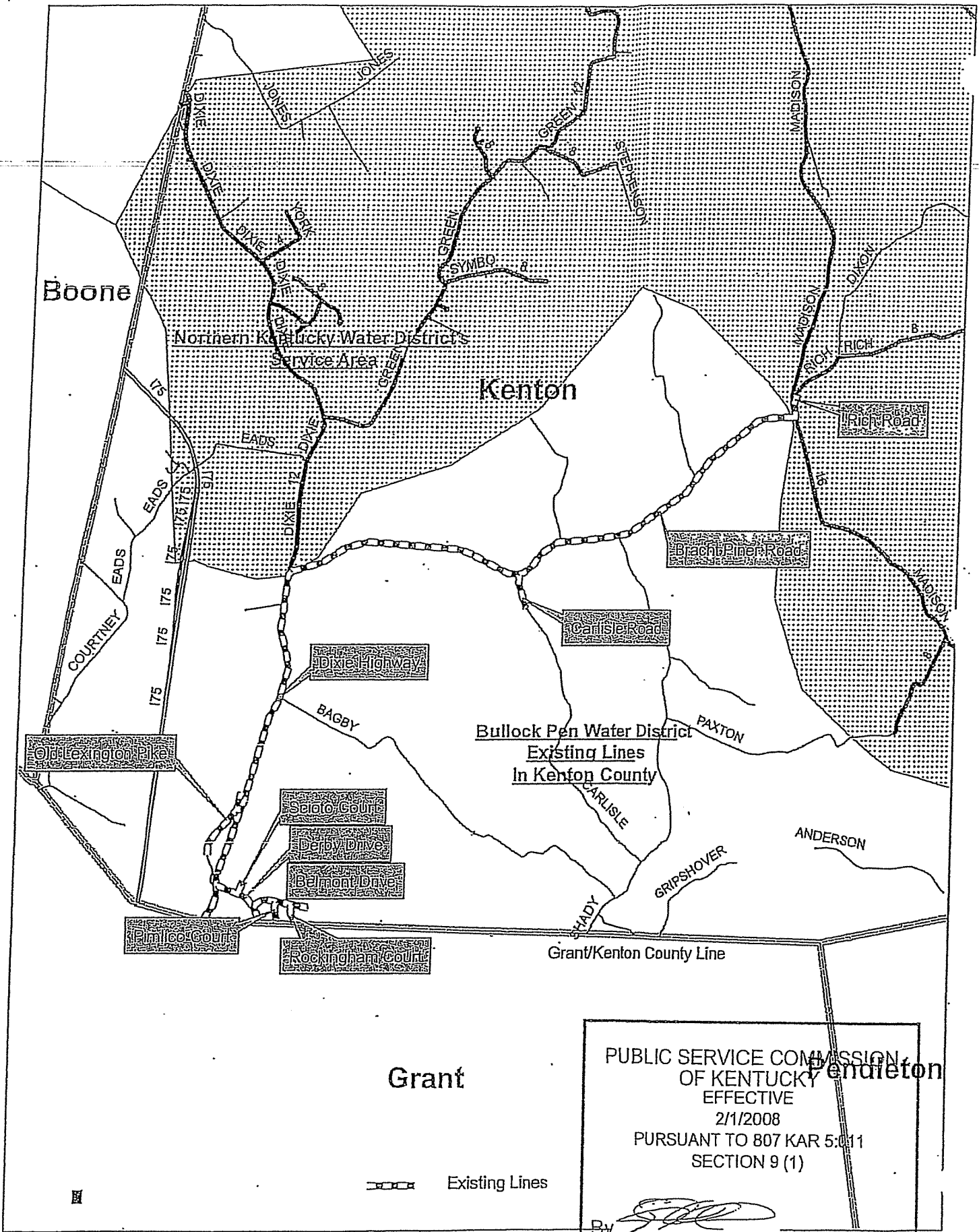
By   
Executive Director





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 OF KENTUCKY  
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 2/1/2008  
 PURSUANT TO 807 KAR 5:010  
 SECTION 9

By   
 Executive Director  
 Exhibit B



Grant

 Existing Lines

PUBLIC SERVICE COMMISSION  
 OF KENTUCKY  
 EFFECTIVE  
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 PURSUANT TO 807 KAR 5:011  
 SECTION 9 (1)


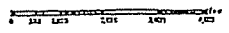
By   
 Executive Director

Exhibit "C"



WATER SUPPLY AGREEMENT

This Water Supply Agreement ("Agreement"), dated as of the 14th day of September, 1999 is made and entered by and between the Pendleton County Water District, R.R. 5, Box 232, Falmouth, Kentucky ("Pendleton") and the Northern Kentucky Water Service District, 100 Aqua Drive, Cold Spring, Kentucky ("Northern"). Pendleton and Northern shall be collectively referred to herein as the "Parties."

WITNESSETH:

WHEREAS, Pendleton entered a Water Purchase Contract with the Campbell County Kentucky Water District ("Campbell") dated July 24, 1972, in which Pendleton agreed to purchase water furnished by Campbell pursuant to certain terms and conditions for a period of twenty years; and

WHEREAS, Pendleton and Campbell agreed to extend the length of the Water Purchase Contract for an additional twenty-five years by a Modification dated May 23, 1977; and

WHEREAS, Pendleton and Campbell agreed to further extend the length of the Water Purchase Contract to the year 2041 by a Modification dated November 30, 1995; and

WHEREAS, Northern is the successor to Campbell as the result of the merger of Campbell with Kenton County Water District No. 1 on or about January 1, 1997; and

WHEREAS, Pendleton and Northern are duly organized water districts pursuant to Chapter 74 of the Kentucky Revised Statutes and other applicable law; and

WHEREAS, Pendleton and Northern desire to terminate the Water Purchase Contract dated July 24, 1972, as amended by the Modification dated May 23, 1977 and the Modification dated November 30, 1995, and to set forth a new agreement for the continuing purchase and sale of water by and between Pendleton and Northern;

NOW THEREFORE, in consideration of the premises and the mutual covenants and agreements contained herein and other good and valuable consideration, the receipt and sufficiency of ~~which are expressly acknowledged, the Parties hereby agree as follows:~~

ARTICLE I

NATURE OF AGREEMENT

This Agreement is a water supply agreement in which Northern agrees to supply water to Pendleton and Pendleton agrees to purchase water from Northern pursuant to the terms and conditions set forth herein.

ARTICLE II

EFFECTIVE DATE AND TERM

This Agreement shall take effect when the rates and service set forth herein are approved by the Public Service Commission of the Commonwealth of Kentucky ("PSC") or when the PSC determines that it lacks jurisdiction over the rates and service set forth herein, whichever occurs first; provided that such approval or determination by the PSC is given or made on or before January 1, 2000. Once it takes effect, this Agreement shall continue in full force and effect until January 31, 2042.

ARTICLE III

CONSTRUCTION

Northern shall construct and install a 12" minimum diameter water main extending along Kentucky Route 17 from Piner, Kentucky to the Kenton County/Pendleton County line (the "Northern Water Main"). Such water main shall be installed at Northern's expense or with funding acquired by Northern and

shall be fully completed and operational no later than two hundred and seventy (270) days after the execution of this Agreement.

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Simultaneous with the construction and installation of the Northern Water Main, Pendleton shall, at no cost to Northern, construct and install a water main to receive water from the Northern Water Main at the Kenton County/Pendleton County line (the "Pendleton Water Main"). Within one hundred and eighty (180) days of the Northern Water Main being fully completed and operational, but no sooner than January 1, 2001, Pendleton, at no cost to Northern, shall install a master meter and meter pit at the point where the Northern Water Main terminates at the Kenton County/Pendleton County line and shall complete a connection between the Northern Water Main and the Pendleton Water Main. Pendleton shall install the master meter and construct the meter pit in accordance with Northern's specifications and Rates, Rules and Regulations.

After the master meter and the meter pit are installed and constructed, they shall become the property of Northern as soon as they are accepted by Northern. The ownership of the master meter and the meter pit shall be transferred from Pendleton to Northern at no cost or charge to Northern. Northern shall allow Pendleton reasonable access to the meter pit for the purpose of monitoring water flow and for the purpose of installing and maintaining telemetry equipment and valving.

#### ARTICLE IV

##### POINTS OF DELIVERY

Northern shall provide water to Pendleton at the following two points of delivery: 1) the discharge side of the master meter to be installed at or near a point where Kentucky Route 17 meets the Kenton County/Pendleton County line (the "Kentucky 17 Point of Delivery"); and 2) the discharge side of

the existing master meter located at the intersection of U.S. Route 27 and Old U.S. Route 27 at Grants Lick, Kentucky (the "U.S. 27 Point of Delivery").

## ARTICLE V

### VOLUME OF WATER

As soon as the construction set forth in Article III above is completed, Northern shall supply to Pendleton, and Pendleton shall accept and receive from Northern, a minimum volume of ninety thousand (90,000) gallons per day of water, averaged on a monthly basis, at the Kentucky 17 Point of Delivery. Northern shall not be required to supply to Pendleton a volume of more than four hundred (400) gallons per minute of water at the Kentucky 17 Point of Delivery.

As soon as this Agreement becomes effective as set forth in Article II, Northern shall supply to Pendleton, and Pendleton shall accept and receive from Northern, a minimum volume of sixty thousand (60,000) gallons per day of water, averaged on a monthly basis, at the U.S. 27 Point of Delivery. Northern shall not be required to supply to Pendleton a volume of more than three hundred (300) gallons per minute of water at the U.S. 27 Point of Delivery.

By a written addendum duly executed by the Parties and referencing this Agreement, the Parties may agree to increase the minimum and maximum volumes of water to be sold and purchased at either or both the Kentucky 17 Point of Delivery and the U.S. 27 Point of Delivery. In no event shall Northern be required to supply water at either point of delivery in excess of the maximum volumes set forth in this Article or in any duly executed addendum.

## ARTICLE VI

### PRESSURE AND QUALITY OF WATER

Northern does not guarantee any specific water pressure at either the Kentucky 17 Point of Delivery or the U.S. 27 Point of Delivery but it intends to provide, absent unusual or unforeseen circumstances, a minimum hydraulic gradient of 1036 under Northern's maximum day demand conditions at the Kentucky 17 Point of Delivery at a maximum flow of 400 gallons per minute and a minimum hydraulic gradient of 930 under Northern's maximum day demand conditions at the U.S. 27 Point of Delivery at a maximum flow of 300 gallons per minute. Northern covenants to use reasonable care and diligence in the operation and maintenance of its water system to prevent and avoid abnormal interruptions and fluctuations of supply and pressure. Pendleton covenants to use reasonable care and diligence in the maintenance of its system to prevent and avoid abnormal interruptions and fluctuations in its acceptance of water under this Agreement.

All water supplied by Northern under this Agreement shall be potable, treated water meeting all applicable quality and purity standards of all appropriate state and federal regulatory agencies. The water shall be of the same quality as that furnished to Northern's retail customers.

## ARTICLE VII

### WATER RATES

The initial water rates to be paid to Northern for water supplied under this Agreement shall be \$1.44 per one thousand (1000) gallons for water supplied at the Kentucky 17 Point of Delivery and \$1.93 per one thousand (1000) gallons for water supplied at the U.S. 27 Point of Delivery.



Pendleton shall pay Northern for the minimum volumes set forth in Article V above or in any duly executed addendum if Pendleton's actual consumption does not reach such minimum volumes.

~~With respect to the Kentucky-17 Point of Delivery, Pendleton's obligation to pay for the minimum volume~~  
shall commence one hundred and eighty (180) days after the Northern Water Main is fully completed and operational, but no sooner than January 1, 2001, regardless of whether Pendleton has completed the installation and construction of the master meter, the meter pit and the Pendleton Water Main. With respect to the U.S. 27 Point of Delivery, Pendleton's obligation to pay for the minimum volume shall commence on the effective date described in Article II above.

The Parties understand and agree that the rate of \$1.93 per one thousand (1000) gallons is the rate currently in effect for the sale and purchase of water at the U.S. 27 Point of Delivery and that by entering this Agreement Northern is agreeing to provide Pendleton a lower initial rate for water to be supplied at the Kentucky 17 Point of Delivery. The Parties further understand and agree that Northern intends to make application to the PSC for an adjustment in its retail and wholesale rates within three (3) years of the execution of this Agreement and that the rates for the Kentucky 17 Point of Delivery and the U.S. 27 Point of Delivery should be adjusted at that time.

The Parties further understand and agree that Northern may, from time to time, increase the water rates it charges Pendleton under this Agreement but that, as long as the PSC has jurisdiction over the rates Northern charges Pendleton, no rate increase shall take effect unless and until it has been reviewed and approved by the PSC.

## ARTICLE VIII

### PAYMENT OF SURCHARGES

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In addition to paying to Northern the water rates described in Article VII above, Pendleton shall pay to Northern an amount equal to ten (10) surcharges for Northern's Subdistrict C expansion project until the expiration of the forty (40) year surcharge term. The Parties understand and agree that the amount of each surcharge may vary over time but shall not exceed \$30.00 per month. The Parties further understand and agree that Pendleton's obligation under this Article may vary over time but shall not exceed \$300.00 per month.

Pendleton's obligation under this Article shall commence thirty (30) days after the Northern Water Main is fully completed and operational, regardless of whether Pendleton has completed the installation and construction of the master meter, meter pit and the Pendleton Water Main.

## ARTICLE IX

### FLOW MEASUREMENT

Northern shall own, operate and maintain the water meters at the Kentucky 17 Point of Delivery and the U.S. 27 Point of Delivery. Northern shall make annual tests and inspections of the meters and such other tests and inspections as Northern may deem necessary. No correction shall be made in the billing to Pendleton unless a test or inspection shows that the metering is more than two percent (2%) slow or fast. If any test or inspection shows that the metering is inaccurate by more than two percent (2%) slow or fast, correction shall be made in the billing to Pendleton for the period during which Northern and Pendleton agree that the inaccuracy existed. If no such agreement is reached, it shall be assumed that

the error developed progressively from the date of the last meter test and an appropriate adjustment to billings shall be made.

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ARTICLE X

BILLING AND PAYMENT

Once each month, Northern shall submit to Pendleton an invoice for the amount due to Northern under the terms of this Agreement for the prior month. All such invoices shall be due and payable by Pendleton to Northern within twenty-one (21) days of receipt. A 10% penalty shall be added to each invoice that is not paid within twenty-one (21) days of its receipt by Pendleton.

ARTICLE XI

AUDITS

Northern shall cause its accounts to be audited by a firm of certified public accountants on an annual basis. A copy of the certified public accountants' audit report shall be supplied to Pendleton upon Pendleton's request. Pendleton may cause the accuracy of any cost charged to it to be verified, at Pendleton's own expense, by an examination of the accounts and records kept by Northern, and Northern shall make its accounts and records available to Pendleton at reasonable times and locations for such purposes.

ARTICLE XII

FORCE MAJEURE

Except for the payments required of Pendleton under Articles VII and VIII above, either Party may suspend its performance under this Agreement if such Party's performance is prevented or

delayed by a cause or causes beyond the reasonable control of such party which could not have been avoided by the exercise of reasonable diligence by such Party. Such causes may include, but shall not be limited to, acts of God, acts of war, riot, fire, explosion, lockouts or other labor disturbances, breakage or damage to machinery or pipelines, or partial or entire failure of water system. The performance of Northern may also be suspended if circumstances cause Northern's system-wide demand to exceed Northern's production and distribution capability. The Party asserting a right to suspend performance must, within a reasonable time of acquiring knowledge of the cause requiring the suspension, notify the other Party in writing of the cause of suspension, the performance suspended, and the anticipated duration of the suspension. Performance shall be suspended only during the time that it is prevented or delayed by the type of cause or causes described in this Article, and the Party whose performance is prevented or delayed shall endeavor to remove or overcome the cause or causes with all reasonable dispatch.

In the event of a system-wide shortage of water in Northern's system, Pendleton's supply of water under this Agreement shall be reduced in the same ratio or proportion that the supply to Northern's retail customers is reduced. Northern will endeavor to include a provision similar to the one immediately above in the other wholesale water supply agreements it is currently negotiating.

### ARTICLE XIII

#### RESPONSIBILITY AND INDEMNIFICATION

Northern and Pendleton shall be solely responsible for the construction, operation and maintenance of their respective water systems. Northern and Pendleton, to the extent permitted by law, expressly agree to defend, indemnify and save harmless the other against all claims, demands, costs, or

expenses asserted by third parties and proximately caused by their negligence or willful misconduct in connection with the construction, operation and maintenance of their respective water systems.

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ARTICLE XIV

APPROVAL OF AGREEMENT

The Parties understand and agree that the rates and service set forth in this Agreement must be submitted to and approved by the PSC.

ARTICLE XV

TERMINATION OF PRIOR CONTRACT

Northern and Pendleton agree that the Water Purchase Contract between Pendleton and Campbell dated July 24, 1972, as amended by the Modification dated May 23, 1977 and the Modification dated November 30, 1995, shall be terminated and cease to be in effect when this Agreement becomes effective as set forth in Article II above.

ARTICLE XVI

NOTICES

Any notices allowed or required under this Agreement shall be in writing and shall be hand-delivered or mailed by certified mail, return receipt requested. Notice shall be effective upon receipt. Notices shall be given to the Parties at the following addresses or such other addresses as may be designated by the Parties:

As to Northern:

General Manager  
Northern Kentucky Water Service District  
100 Aqua Drive  
P.O. Box 220  
Cold Spring, KY 41076

As to Pendleton:

General Manager  
Pendleton County Water District  
R. 5, Box 14  
P.O. Box 232  
Falmouth, KY 41040

#### ARTICLE XVII

#### ENTIRE AGREEMENT

This Agreement constitutes the entire understanding and agreement between the Parties and supersedes all other understandings and agreements between the Parties with respect to the subject matter of this Agreement. There are no understandings, representations, or warranties of any kind, express or implied, not expressly set forth in this Agreement. No modification of this Agreement shall be effective unless in writing and signed by both Parties.

#### ARTICLE XVIII

#### WAIVERS

The failure of any Party at any time to enforce any provision of this Agreement, to exercise its rights under any provision, or to require a certain performance of any provision, shall in no way be construed as a waiver of such provision, nor in any way affect the validity of this Agreement or the right of the Party thereafter to enforce each and every provision.

ARTICLE XIX

ASSIGNMENT

This Agreement shall not be assigned by either Party without the written consent of the other Party.

IN WITNESS WHEREOF, the Parties hereto, acting under the authority of their respective governing bodies, have caused this Agreement to be duly executed in duplicate, each of which shall constitute an original.

PENDLETON COUNTY WATER DISTRICT

By: Louis McClanahan

Printed Name: Louis McClanahan

Title: Treasurer

NORTHERN KENTUCKY WATER SERVICE DISTRICT

By: Patricia J. Sommerkamp

Printed Name: PATRICIA J. SOMMERKAMP

Title: Chair

AMENDMENT TO WATER SUPPLY AGREEMENT

This Amendment to Water Supply Agreement ("Agreement"), dated as of the 19th day of Dec, 2002 is made and entered by and between the Pendleton County Water District, R.R. 5, Box 232, Falmouth, Kentucky ("Pendleton") and the Northern Kentucky Water District, 100 Aqua Drive, Cold Spring, Kentucky ("Northern").

WITNESSETH:

WHEREAS, Pendleton and Northern entered a Water Supply Agreement dated September 14, 1999 ("Water Supply Agreement") in which Pendleton and Northern agreed, among other things, that Pendleton would purchase water furnished by Northern and Northern would sell water to Pendleton; and

WHEREAS, the expiration date of the Water Supply Agreement was established as January 31, 2042; and

WHEREAS, Pendleton and Northern desire to amend the Water Supply Agreement to extend the expiration date to January 31, 2047;

NOW, THEREFORE, in consideration of the premises and the mutual covenants and agreements contained herein and other good and valuable consideration, the receipt and sufficiency of which are expressly acknowledged, Pendleton and Northern hereby agree as follows:

1. The last sentence of Article II of the Water Supply Agreement is amended by deleting the word and figures "January 31, 2042" and substituting therefore the word and figures "January 31, 2047."

2. All rights, duties and responsibilities of Pendleton and Northern as set forth in the Water Supply Agreement remain the same.

IN WITNESS WHEREOF, Pendleton and Northern, acting under the authority of the respective governing bodies, have caused this Amendment to be duly executed in duplicate, each of which will constitute an original.

**PENDLETON COUNTY WATER DISTRICT**

**NORTHERN KENTUCKY WATER DISTRICT**

By: J. C. Crowley  
Printed Name: J. C. Crowley  
Title: Chairman

By: [Signature]  
Printed Name: Joseph J. Houston  
Title: Chairman of the Board



## AGREEMENT FOR CONDITIONAL CONSENT FOR SERVICE

This Agreement for Conditional Consent for Service (hereinafter "Agreement") is made and entered into this 15<sup>th</sup> day of February, 2005 by and between the **East Pendleton County Water District**, a public water district organized and operating under Chapter 74 of the Kentucky Revised Statutes (hereinafter "East Pendleton") and the **Northern Kentucky Water District**, a public water district organized and operating under Chapter 74 of the Kentucky Revised Statutes (hereinafter "Northern"). East Pendleton and Northern shall be referred to collectively herein as the "Parties".

### WITNESSETH:

WHEREAS, East Pendleton desires to install a water main extension and appurtenances along approximately 0.7 miles of Baynum Hill Road in southern Campbell County as roughly depicted on the attached Exhibit A which is incorporated herein by reference (hereinafter, the "Improvement"); and

WHEREAS, the Improvement will be located within Northern's service area; and

WHEREAS, East Pendleton has requested Northern's consent for East Pendleton to install the Improvement and to serve a portion of Northern's service area and Northern is willing to provide its conditional consent pursuant to certain terms and conditions:

NOW, THEREFORE, in consideration of the premises and of the mutual covenants and agreements contained herein and other good and valuable consideration, the receipt and sufficiency of which are expressly acknowledged, the Parties hereby agree as follows:

1. Northern consents to East Pendleton's installation of the Improvement within Northern's service area.
2. East Pendleton, at its expense, shall install and maintain the Improvement in accordance with all applicable, federal and state regulatory requirements and East Pendleton's rates, rules and regulations and water main specifications.
3. Northern consents and agrees to allow East Pendleton to serve the customers in Northern's service area who are located adjacent to the Improvement; provided, however, that Northern may terminate its consent with respect to any such customer whenever Northern determines, in its sole discretion, that it is able to serve such customer.
4. At such time that Northern provides notice to East Pendleton that it can serve all or any portion of the customers described in the immediately preceding paragraph and at all times thereafter, Northern shall have the option to purchase from

East Pendleton all of East Pendleton's right, title and interest in and to the Improvement at a purchase price equal to the actual cost paid for the Improvement by East Pendleton, based on a one hundred (100) year depreciation of the actual and unreimbursed construction costs of East Pendleton. Upon the exercise of such purchase option, all affected customers shall become customers of Northern.

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5. This Agreement constitutes a conditional and temporary consent by Northern for service within its service area by East Pendleton for Baynum Hill Road only and does not constitute a permanent extension into an adjoining county as contemplated by section 74.115 of the Kentucky Revised Statutes.

6. The terms of this Agreement shall remain in effect for a period of forty (40) years.

7. This agreement may not be assigned by either Party without the written consent of the other Party.

IN WITNESS WHEREOF, the Parties, acting under the authority of the respective governing bodies, have caused this Agreement to be duly executed in duplicate, each of which shall constitute an original.

**EAST PENDLETON WATER DISTRICT**

Signature: Wayne Lonaker

Printed Name: Wayne Lonaker

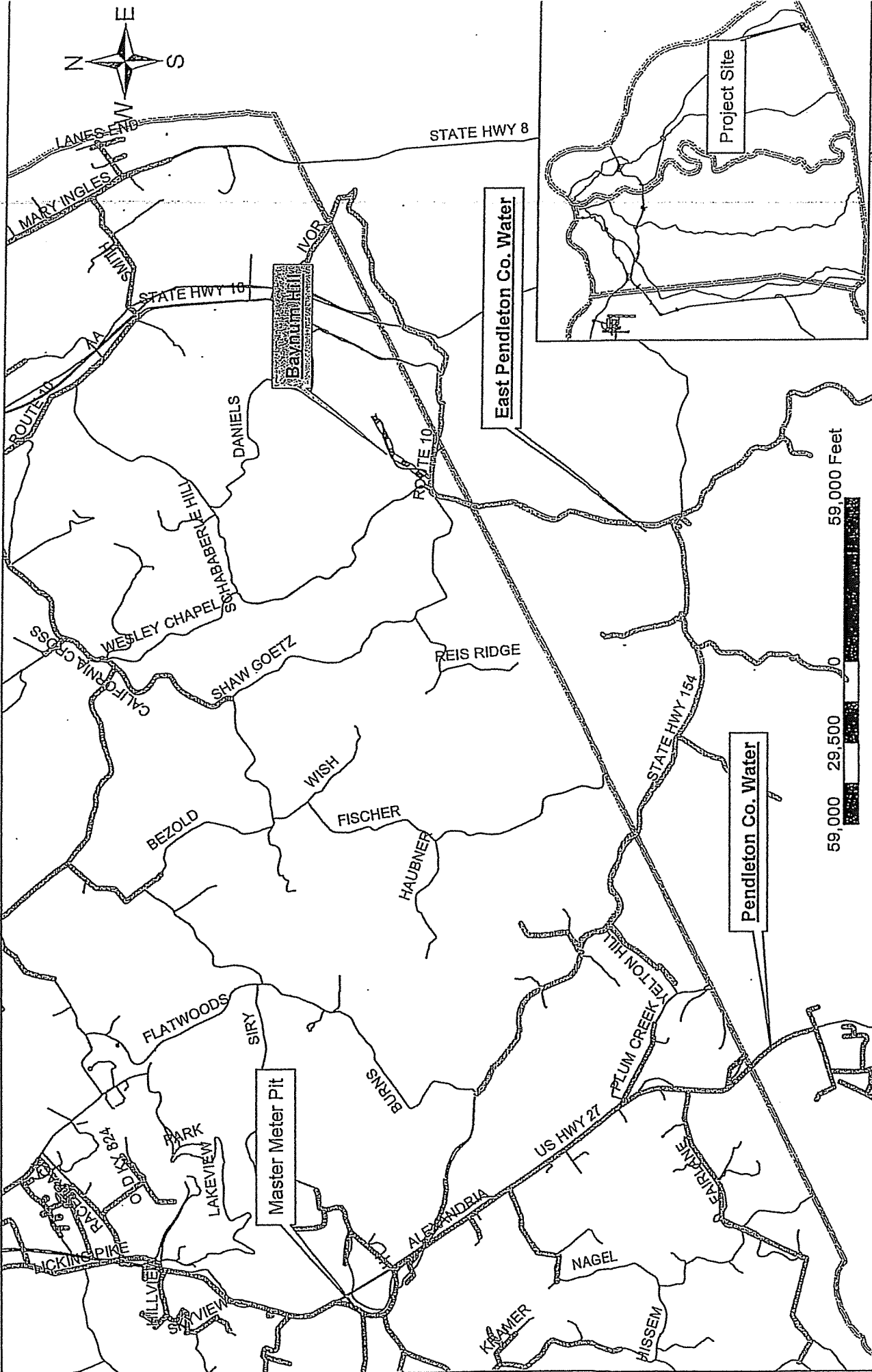
Title: Manager

**NORTHERN KENTUCKY WATER DISTRICT**

Signature: [Signature]

Printed Name: Jon Lovan

Title: President/CEO



# Baynum Hill - East Pendleton Co. Water Extension Request

## WATER SUPPLY AGREEMENT

This Water Supply Agreement (hereinafter "Agreement") is made and entered into as of this 28<sup>th</sup> day of JUNE, 2006 (hereinafter the "Effective Date") by and between the **City of Walton, Kentucky**, a municipal corporation and a Kentucky city of the Fifth Class having a mailing address of 40 North Main Street, P.O. Box 95, Walton, Kentucky 41094-0095 (hereinafter the "City") and the **Northern Kentucky Water District**, a water district organized and operating under Chapter 74 of the Kentucky Revised Statutes and having a mailing address of 2835 Crescent Springs Road, Erlanger, Kentucky 41018 (hereinafter the "District"). Together the City and the District will be referred to herein as the "Parties".

**WHEREAS**, in 1979 the City constructed a twelve-inch water main along Kentucky Route 16 from the Boone-Kenton County boundary to the terminus of the District's then-existing eight-inch water line at Kentucky Route 16 and Wilson Road, and the City transferred said line to the District for the purpose of purchasing water from the District; and

**WHEREAS**, the District has owned, operated and maintained the twelve-inch water main along Kentucky Route 16 and has been the sole and exclusive supplier of water to the City since 1979; and

**WHEREAS**, the District desires to continue to be the City's sole and exclusive supplier of water for an additional 40 years; and

**WHEREAS**, the City desires to serve certain portions of the District's service area in Kenton County which the City has annexed, and the District does not object to such service provided that certain terms and conditions are satisfied; and

WHEREAS, the Parties desire to memorialize in writing their agreement regarding these and related matters;

~~NOW, THEREFORE~~, in consideration of the premises and of the mutual covenants and agreements contained herein and other good and valuable consideration, the receipt and sufficiency of which are expressly acknowledged, the Parties hereby agree as follows:

1. **Quality and Quantity.** During the term of this Agreement and any renewal or extension thereof, the District will furnish to the City at the points of delivery hereinafter specified, potable, treated water meeting all applicable quality and purity standards of all appropriate state and federal regulatory agencies in such quantity as may be required by the City not to exceed one million five hundred thousand (1,500,000) gallons per day. The District shall not be obligated to provide water to the City in excess of one million five hundred thousand (1,500,000) gallons per day. Should the City's demand exceed one million five hundred thousand (1,500,000) gallons per day, the District will have the option to provide the excess before the City may purchase the excess from any other supplier of water. If the District is unable or unwilling to provide the excess and the City is required to purchase the excess from another supplier of water, the District shall remain the provider of at least one million five hundred thousand (1,500,000) gallons per day to the City for every day on which the City purchases excess from another supplier of water.

2. **Points of Delivery and Pressure.** The District will provide water to the City at the following two points of delivery: a.) the discharge side of the master meter located at or near a point where Kentucky Route 16 meets the Boone County/Kenton County line (the "Kentucky Route 16 Point of Delivery"); and b.) the discharge side of a master meter to be installed, at the City's expense, at or near a point where U.S. Route 25 meets the Boone County/Kenton County line (the "U.S. Route 25 Point of Delivery"). The delivery of water at the U.S. Route 25 Point of Delivery will not commence until a meter pit is constructed and a master meter is installed. The City, at its expense, will construct the meter pit in accordance with the District's specifications and will pay the District for the cost of the master meter which will be installed by the District. After installation, the master meter will be owned and maintained by the District.

The Parties, in writing, may agree to one or more additional points of delivery.

Subject to the force majeure events described in Section 11 of this Agreement, the District will use its best reasonable efforts to furnish water at the two points of delivery at a reasonably constant pressure of approximately 35 psi. If a greater pressure than that normally available at the two points of delivery is required by the City, the cost of providing such greater pressure shall be the responsibility of the City.

3. **Term of Agreement.** This Agreement will take effect on the Effective Date and will continue for a term of forty (40) years thereafter. The Parties acknowledge that this Agreement will require submission to the Kentucky Public Service Commission (hereinafter the "PSC") for approval. If the PSC disapproves this Agreement or makes any material modifications to the language herein, then either Party, in its sole discretion, may terminate this Agreement by giving written notice to the other Party via certified mail, return receipt requested, within sixty (60) days of receipt of notice from the PSC of such disapproval or material language modification. Prior to giving any such notice of termination, the Party desiring termination shall meet with the other Party and negotiate in good faith in the interest of resolving any issues and restoring or maintaining this Agreement. The termination of this Agreement shall be effective on the earlier of (i) receipt of the written notice of termination by the Party to whom it is addressed, or (ii) three days after the written notice of termination is deposited in the U.S. mail, postage prepaid. This Agreement may be renewed or extended as may be agreed upon by the City and the District in writing.
4. **Metering Equipment and Flow Measurement.** The District will own, operate and maintain the master meter located at the Kentucky Route 16 Point of Delivery and, upon its installation, the master meter located at the U.S. Route 25 Point of Delivery. The District will make annual tests and

inspections of the two meters and such other tests and inspections as the District may deem necessary. No correction will be made in the billing to the City unless a test or inspection shows that the metering is more than two percent (2%) slow or fast. If any test or inspection shows that the metering is inaccurate by more than two percent (2%) slow or fast, correction will be made to the billing to the City for the period during which the District and the City agree that the inaccuracy existed. If no such agreement is reached, it will be assumed that the error developed progressively from the date of the last meter test and an appropriate adjustment to billings will be made.

5. **Records and Audits.** The District will cause its accounts to be audited by a firm of certified public accountants on an annual basis. A copy of the certified public accountants' audit report will be supplied to the City upon the City's written request. The District will make its accounts and records available to the City for examination at reasonable times and locations.
  
6. **Billing Procedure.** No later than the 5<sup>th</sup> day of each month, the District will furnish the City with an itemized statement of the amount of water furnished to the City during the preceding month and the amount owed to the District for all water rates, charges and surcharges due for the preceding month.



7. **Water Rates, Charges, Surcharges and Payment Date.** The City shall pay the District's water rates and charges for wholesale customers as such rates and charges may be adjusted from time to time. The District may, from time to time, increase its water rates and charges, but no rate or charge increase will take effect unless and until it has been reviewed and approved by the PSC.

In addition to paying to the District the water rates and charges stated above, the City shall pay to the District each month an amount equal to ten (10) surcharges for the District's Subdistrict C project until the expiration of the subdistrict's forty (40) year surcharge term. The Parties understand and agree that the amount of each surcharge may vary over time but will not exceed \$30.00 per month. The Parties further understand and agree that the City's obligation under this paragraph may vary over time but will not exceed \$300.00 per month. The District will recalculate the amount of each surcharge and the City's obligation under this paragraph annually. The City's obligation to pay an amount equal to ten (10) surcharges each month shall commence thirty (30) days after the master meter is installed at the U.S. Route 25 Point of Delivery, regardless of when the City actually begins receiving water at the U.S. Route 25 Point of Delivery.

No later than the 20<sup>th</sup> day of each month, the City shall pay to the District the full amount owed for all water rates, charges and surcharges for the preceding month.

8. **Transfer of Portion of Service Area.** The City has annexed three areas within the District's service area in Kenton County. Each of these three areas is depicted and identified by the letter "A" on attached Exhibit A, which is incorporated herein by reference and made a part of this Agreement. Together, these three areas will be referred to herein as the "Annexed Areas". The City also has plans to annex the area identified by the letter "B" on attached Exhibit A. This area of proposed annexation will be referred to herein as "Area B". The District hereby grants to the City the right and authority to serve all customers located within the Annexed Areas and Area B, if and when Area B is annexed by the City. All water lines and appurtenances installed by the City within the Annexed Areas and Area B will be installed in accordance with specifications approved by the Kentucky Division of Water and the City. The minimum water main size will be eight (8) inches, and all water mains will be either ductile iron pipe, class 50 or greater, or PVC C900 DR14. The installation of all such water lines and appurtenances will be at no cost to the District.
  
9. **Remedy for Sale of System or Breach.** The City and the District recognize the value of this Agreement to the District as the sole and

exclusive supplier of water to the City and also the value to the City of the right and authority to serve the Annexed Areas and Area B, if and when such area is annexed. Should the City, at any time during the term of this Agreement or any renewal or extension thereof, either a) merge, sell, transfer or alienate all or any portion of its water distribution system with or to a party other than the District or b) commence purchasing water from any supplier of water other than the District (except in the case if and when the City's demand exceeds one million five hundred thousand (1,500,000) gallons per day and the District is unable to provide the excess), the right and the authority of the City to serve the Annexed Areas and Area B, if such area has been annexed by the City, shall immediately cease and be terminated and all customers located within the Annexed Areas and Area B shall be transferred to the District as retail customers of the District at no charge or cost to the District. At such time, all of the City's right, title and interest in the water lines and appurtenances located within the Annexed Areas and Area B, if applicable, shall be immediately and automatically transferred to and vested in the District at no charge or cost to the District. In addition, the City shall pay all costs and expenses of any and all engineering and construction of water lines and appurtenances necessary for the District to become the direct supplier of water to the customers located within the Annexed Areas and Area B, if applicable. The remedy set forth in this Section 9 is provided in recognition of the damages to the District should the City sell, transfer or alienate its water distribution system or commence purchasing water from

any other supplier. This remedy is not provided as a penalty. In addition to this remedy, the District will have available any and all remedies available in law and equity.

10. **Responsibility and Indemnification.** The City and the District each shall be solely responsible for the construction, operation and maintenance of its own water system. The City and the District, to the extent permitted by law, expressly agree to defend, indemnify and hold harmless the other against any and all claims, demands, costs or expenses asserted by third parties and proximately caused by their negligence or willful misconduct in connection with the construction, operation or maintenance of their respective water systems.

11. **Force Majeure.** Except for the payments required of the City for water rates, charges and surcharges, either Party may suspend its performance under this Agreement if such Party's performance is prevented or delayed by a cause or causes beyond the reasonable control of such Party which could not have been avoided by the exercise of reasonable diligence by such Party. Such causes may include, but shall not be limited to, act of God, act of war, riot, fire, flood, power failure, earthquake, explosion, lockout or other labor disturbance, water line break, breakage or damage to machinery or pipelines, and partial or entire failure of water system. The Party asserting a right to suspend performance must, within a reasonable time of acquiring knowledge of the cause requiring the

suspension, notify the other Party in writing of the cause of suspension, the performance suspended, and the anticipated duration of the suspension. Performance will be suspended only during the time that it is prevented or delayed by the type of cause or causes described in this paragraph, and the Party whose performance is prevented or delayed will endeavor to remove or overcome the cause or causes with all reasonable dispatch. In the event of a system-wide shortage of water in the District's system, the City's supply of water under this Agreement will be reduced in the same ratio or proportion that the supply to the District's other customers is reduced.

12. **Right of First Refusal in Event of Merger or Sale of the City's System.**

In the event that, at any time during the term of this Agreement or any renewal or extension thereof, the City entertains an offer for any person or entity to merge with, acquire or purchase all or any part of the City's water distribution system, and if the City desires to accept such offer, the City shall notify the District in writing setting forth all of the terms of such offer, including the price, if any, and advising the District of the City's intention to accept the same. The District shall have sixty (60) days from receipt of such written notice to notify the City in writing that the District intends to merge with, acquire or purchase the City's water distribution system or any part thereof on such terms as are set forth in such written notice and at a purchase price as hereinafter described, if applicable. The purchase price for the District, if applicable, shall be either a) the price set

forth in such written notice if the part of the City's water distribution system proposed to be merged, acquired or purchased does not include any of the Annexed Areas or Area B or b) the price set forth in such written notice minus the amount of such price as is reasonably negotiated by the City and the District in good faith as representing or corresponding to all parts of the Annexed Areas and Area B included in the proposed merger, acquisition or purchase, if the part of the City's water distribution system proposed to be merged, acquired or purchased includes all or any parts of the Annexed Areas and Area B (the purchase price calculated under this sentence shall be hereinafter referred to as the "District Price"). If the District timely notifies the City of its intention to merge with, acquire, or purchase as described herein, the District shall consummate the merger, acquisition, or purchase within one hundred eighty (180) days from the date it first received written notice of the offer from the City. If the District does not give written notice of its intention to merge, acquire or purchase as set forth in this Section 12, or does not consummate the transaction within the one hundred eighty (180) day time period, then the City, subject to the limitations set forth in Section 9 of this Agreement, may proceed with the merger, acquisition or purchase of the relevant part of the City's water distribution system with or by such other person or entity at the price, if any, and on the terms set forth in the offer from or proposed to such other person or entity, and this Right of First Refusal shall remain in effect and be binding upon the City with respect to any other part of the City's water distribution system not yet offered for

merger, acquisition or purchase with or by the District. In no event, however, shall the City merge, transfer or sell all or any portion of the City's water distribution system with or to such other person or entity or to any other person or entity at a price, if applicable, or on terms less favorable to the City than those described in the written notice provided to the District without again notifying the District of such revised price, if applicable, and terms and giving the District the same time periods for notice of the District's intention to exercise its option and consummation of the merger, acquisition, or purchase as previously set forth in this Section 12 on such revised terms and at the new District Price, if applicable. This Right of First Refusal shall remain in full force and effect during the entirety of the term of this Agreement and any and all renewals and extensions thereof. In calculating and applying the one hundred eighty (180) day time limit set forth in this Section 12 for the District to consummate the merger, acquisition or purchase, each day that this Agreement is in the possession of the PSC for review and approval shall be deducted from the days that have actually elapsed since the District first received written notice of the offer from the City.

13. **Entire Agreement.** This Agreement constitutes the entire understanding and agreement between the Parties and supercedes all other understandings and agreements between the Parties with respect to the subject matter of this Agreement. There are no understandings, representations or warranties of any kind, expressed or implied, not

expressly set forth in this Agreement. No modification or amendment of this Agreement shall be effective unless in writing and executed on behalf of both Parties.

14. **Termination of Prior Agreement.** The Agreement between Kenton County Water District No. 1 (predecessor to the District) and the City of Walton, Kentucky dated as of the 21<sup>st</sup> day of August 1979 and relating to the supply of water and other matters will automatically be terminated on the Effective Date; provided, however, that such agreement will immediately and automatically be revived and considered to be in full force and effect if either party terminates this Agreement pursuant to Section 3 herein.

+

15. **Assignment.** This Agreement shall be binding on all successors and assigns of the Parties but shall not be assigned by either Party without the written consent of the other Party.

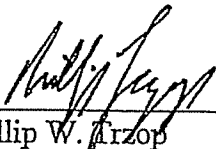
16. **Waivers.** The failure of any Party at any time to enforce any provision of this Agreement, to exercise its rights under any provision, or to require a certain performance of any provision shall in no way be construed a waiver of such provision nor in any way affect the validity of this Agreement or the right of the Party thereafter to enforce each and every provision.



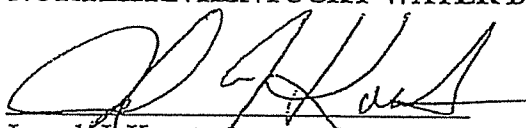
17. **Authority to Execute Agreement.** The City possesses full authority to enter this Agreement as indicated by the lawful resolution/order of the City attached hereto as Exhibit B. The District possesses full authority to enter this Agreement as indicated by the lawful resolution of the District attached hereto as Exhibit C.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be duly executed in two originals, one for each Party.

**CITY OF WALTON, KENTUCKY**

  
\_\_\_\_\_  
Phillip W. Arzop  
Mayor

**NORTHERN KENTUCKY WATER DISTRICT**

  
\_\_\_\_\_  
Joseph J. Koester  
Chair of Board of Commissioners

Attested:

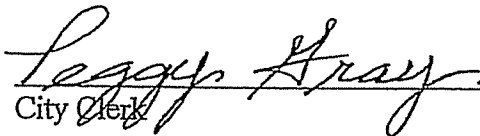
  
\_\_\_\_\_  
Peggy Gray  
City Clerk

Exhibit A-Diagram of Annexed Areas and Area B  
Exhibit B-Resolution/Order of the City of Walton  
Exhibit C-Resolution of the Northern Kentucky Water District.

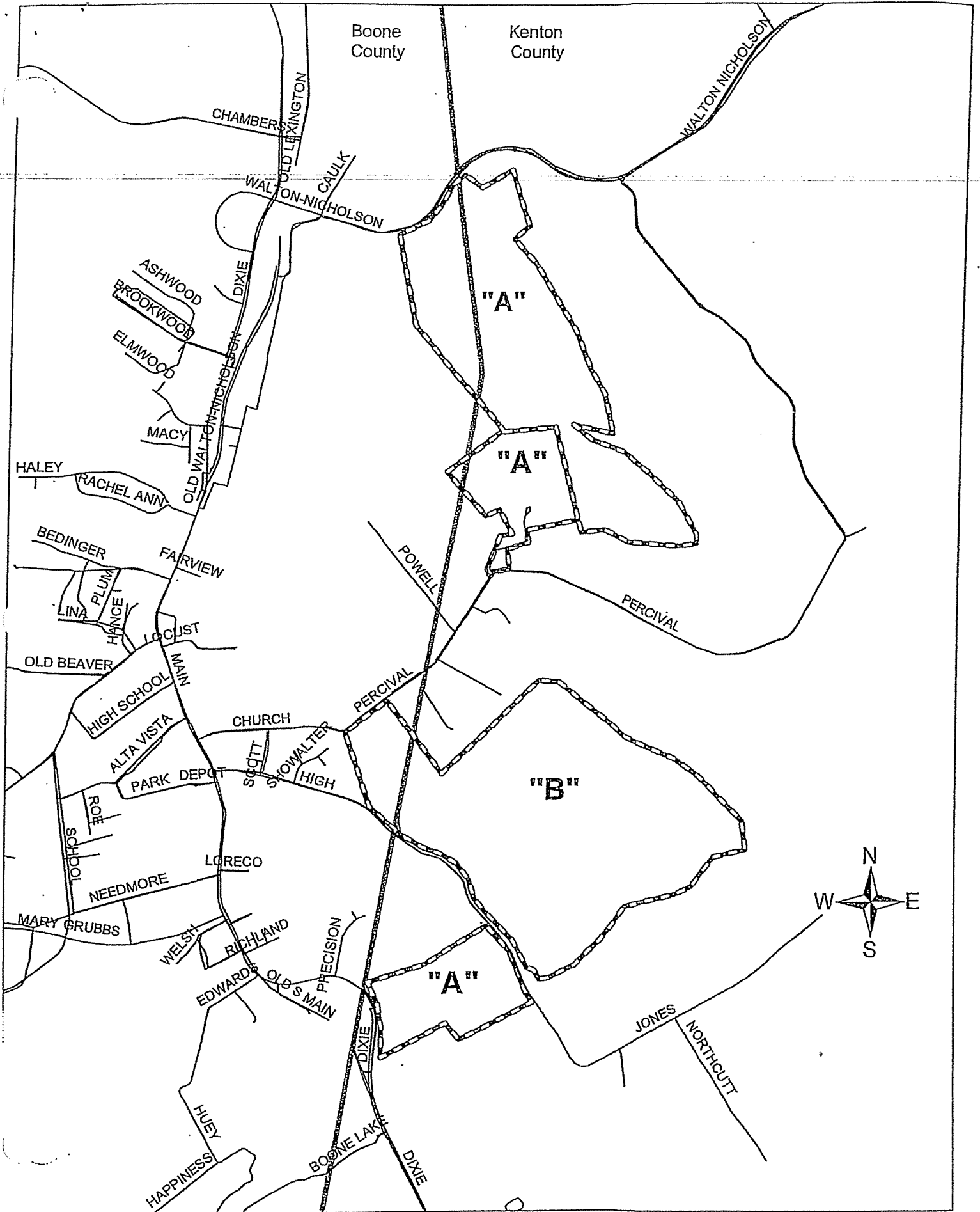


Exhibit "A"

RESOLUTION  
OF  
THE NORTHERN KENTUCKY WATER DISTRICT

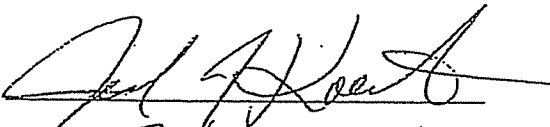
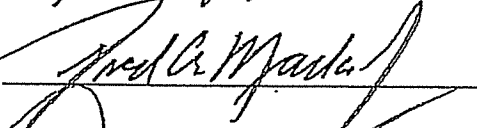
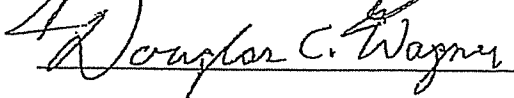
A RESOLUTION REGARDING THE EXECUTION OF A WATER  
SUPPLY AGREEMENT WITH THE CITY OF WALTON, KENTUCKY

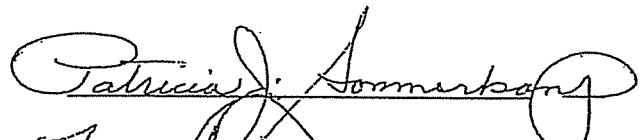

BE IT RESOLVED by the Board of Commissioners of the Northern Kentucky Water District (the "District") that the proposed Water Supply Agreement with the City of Walton, Kentucky is approved.

BE IT FURTHER RESOLVED that the District execute and enter the Water Supply Agreement.

BE IT FURTHER RESOLVED that the Chair of the Board of Commissioners is authorized, empowered and directed to execute the Water Supply Agreement by and on behalf of the District.

AGREED, DETERMINED and RESOLVED this 23<sup>rd</sup> day of June, 2006 at a regular meeting of the Board of Commissioners of the District at the District's Central Facility at 2835 Crescent Springs Road in Erlanger, Kentucky.

  
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\_\_\_\_\_

CITY OF WALTON, KENTUCKY  
MUNICIPAL ORDER NO. 2006-09

A MUNICIPAL ORDER AUTHORIZING AND DIRECTING THE MAYOR TO ENTER INTO A CONTRACT WITH THE NORTHERN KENTUCKY WATER DISTRICT FOR THE PURCHASE OF WATER FROM THE NORTHERN KENTUCKY WATER DISTRICT AND FOR THE CITY TO PROVIDE WATER SERVICE TO AREAS WITHIN THE CITY LIMITS SITUATED IN KENTON COUNTY.

The City Council of the City of Walton, Kentucky hereby orders as follows:

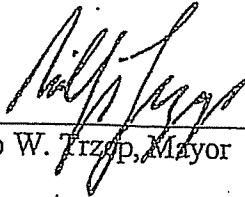
SECTION ONE

The Mayor of the City of Walton, Kentucky is hereby authorized and directed to enter into a contract with the Northern Kentucky Water District for the purchase of water from the Northern Kentucky Water District and for the City to provide water service to specified areas within the City limits situated in Kenton County. A copy of the contract is attached to this Municipal Order.

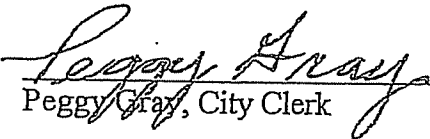
SECTION TWO

The Mayor is hereby authorized and directed to take any and all actions and to execute any and all documents on behalf of the City necessary, appropriate, or convenient to give effect to this Municipal Order.

ADOPTED AND PASSED by City Council of the City of Walton, assembled on the 12th day of June, 2006.

  
\_\_\_\_\_  
Phillip W. Trapp, Mayor

Attest:

  
\_\_\_\_\_  
Peggy Gray, City Clerk

NORTHERN KENTUCKY  
WATER DISTRICT

*Project*

*24-inch Cross-Country Water Main*  
*Replacement Project,*  
*Edgewood/Crestview Hills,*  
*Kenton County, Kentucky*

184-0776

SCHEDULE OF MORTGAGES, BONDS, NOTES, AND  
OTHER INDEBTEDNESS

Northern Kentucky Water District				
Summary of Debt Service				
Effective June 30, 2018				
Totals by Series				
Senior Debt Series				
Series	Principal	Interest	Total	
1997 Def. 2012	-	-	-	
1998 Def. 2012	-	-	-	
USDA 2000	1,741,000	1,112,200	2,853,200	
2001 Def. 2012	-	-	-	
2002A Def. 2012	-	-	-	
2002B Def. 2013	-	-	-	
2003A def. 2013	-	-	-	
2003B def. 2013	-	-	-	
2003C def 2014	-	-	-	
2004 def 2014	-	-	-	
2006	-	-	-	
2009	-	-	-	
2011	24,505,000	11,317,434	35,822,434	
2012	41,475,000	10,808,000	52,283,000	
2013A	23,160,000	11,898,108	35,058,108	
2013B	15,365,000	4,169,850	19,534,850	
2014A	1,733,000	1,130,376	2,863,376	
2014B	8,135,000	1,409,668	9,544,668	
2016A	37,540,000	11,498,600	49,038,600	
2018	19,600,000	9,971,464	29,571,464	
<b>Total Senior Debt</b>	<b>173,254,000</b>	<b>63,315,700</b>	<b>236,569,700</b>	
Subordinate Debt Series				
KIA F-06-03	-	-	-	
KIA C-08-01	-	-	-	
KIA F-08-07	2,978,312	285,713	3,264,025	
KIA F-09-02	18,863,740	3,447,328	22,311,068	
KIA F-13-012	-	1,854,430	1,854,430	
KIA F-14-015	4,000,000	879,457	4,879,457	
KIA F-15-011	4,000,000	861,167	4,861,167	
KIA F-16-027	4,000,000	866,341	4,866,341	
KIA B-15-003	1,361,377	132,378	1,493,755	
<b>Total Subord. Debt</b>	<b>35,203,430</b>	<b>8,326,814</b>	<b>43,530,243</b>	
<b>Grand Total All Debt</b>	<b>208,457,430</b>	<b>71,642,514</b>	<b>280,099,943</b>	

Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2018 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$0	\$43,525	\$43,525		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$537,106	\$537,106		
	2012	\$0	\$1,036,875	\$1,036,875		
	2013A	\$0	\$513,013	\$513,013		
	2013B	\$0	\$359,600	\$359,600		
	2014A	\$0	\$23,829	\$23,829		
	2014B	\$0	\$171,569	\$171,569		
	2016A	\$0	\$816,325	\$816,325		
	2018	\$0	\$0	\$0		
	<b>Total Senior Debt</b>	<b>\$0</b>	<b>\$3,501,842</b>	<b>\$3,501,842</b>		<b>\$3,501,842</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$95,691	\$18,615	\$114,306		
	KIA F-09-02	\$542,297	\$212,217	\$754,514		
	KIA F-13-012	\$0	\$45,230	\$45,230		
	KIA F-14-015	\$0	\$32,871	\$32,871		
	KIA F-15-011	\$74,194	\$35,351	\$109,545		
	KIA F-16-027	\$0	\$0	\$0		
	KIA B-15-003	\$32,482	\$6,449	\$38,931		
	<b>Total Subordinate Debt</b>	<b>\$744,664</b>	<b>\$350,733</b>	<b>\$1,095,397</b>		<b>\$1,095,397</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$4,597,239</b>
<b>2019 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$49,000	\$85,825	\$134,825		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$1,015,000	\$1,058,987	\$2,073,987		
	2012	\$3,650,000	\$1,982,500	\$5,632,500		
	2013A	\$720,000	\$1,008,026	\$1,728,026		
	2013B	\$1,230,000	\$688,450	\$1,918,450		
	2014A	\$0	\$47,658	\$47,658		
	2014B	\$1,980,000	\$293,638	\$2,273,638		
	2016A	\$2,005,000	\$1,582,525	\$3,587,525		
	2018	\$0	\$0	\$0		
	<b>Total Senior Debt</b>	<b>\$10,649,000</b>	<b>\$6,747,609</b>	<b>\$17,396,609</b>		<b>\$17,396,609</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$192,819	\$35,431	\$228,250		
	KIA F-09-02	\$1,100,917	\$406,071	\$1,506,988		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$138,583	\$65,053	\$203,636		
	KIA F-15-011	\$160,707	\$73,119	\$233,825		
	KIA F-16-027	\$0	\$0	\$0		
	KIA B-15-003	\$65,330	\$12,470	\$77,800		
	<b>Total Subordinate Debt</b>	<b>\$1,658,356</b>	<b>\$682,603</b>	<b>\$2,340,959</b>		<b>\$2,340,959</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$19,737,568</b>

Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2020 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$51,000	\$83,325	\$134,325		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$1,055,000	\$1,022,662	\$2,077,662		
	2012	\$4,150,000	\$1,787,500	\$5,937,500		
	2013A	\$755,000	\$971,151	\$1,726,151		
	2013B	\$1,295,000	\$625,325	\$1,920,325		
	2014A	\$26,500	\$47,293	\$73,793		
	2014B	\$1,505,000	\$206,513	\$1,711,513		
	2016A	\$2,380,000	\$1,472,900	\$3,852,900		
	2018	\$545,000	\$700,692	\$1,245,692		
	<b>Total Senior Debt</b>	<b>\$11,762,500</b>	<b>\$6,917,361</b>	<b>\$18,679,861</b>		<b>\$18,679,861</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$194,752	\$33,015	\$227,767		
	KIA F-09-02	\$1,123,045	\$381,176	\$1,504,221		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$141,019	\$62,269	\$203,288		
	KIA F-15-011	\$173,988	\$74,436	\$248,424		
	KIA F-16-027	\$0	\$0	\$0		
	KIA B-15-003	\$65,821	\$11,848	\$77,669		
	<b>Total Subordinate Debt</b>	<b>\$1,698,625</b>	<b>\$653,204</b>	<b>\$2,351,829</b>		<b>\$2,351,829</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$21,031,690</b>
<b>2021 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$54,000	\$80,700	\$134,700		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$1,095,000	\$979,662	\$2,074,662		
	2012	\$4,365,000	\$1,574,625	\$5,939,625		
	2013A	\$795,000	\$932,401	\$1,727,401		
	2013B	\$1,355,000	\$559,075	\$1,914,075		
	2014A	\$27,000	\$46,557	\$73,557		
	2014B	\$440,000	\$157,888	\$597,888		
	2016A	\$2,325,000	\$1,355,275	\$3,680,275		
	2018	\$560,000	\$347,076	\$907,076		
	<b>Total Senior Debt</b>	<b>\$11,016,000</b>	<b>\$6,033,259</b>	<b>\$17,049,259</b>		<b>\$17,049,259</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$196,704	\$30,575	\$227,279		
	KIA F-09-02	\$1,145,619	\$355,782	\$1,501,401		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$160,994	\$66,565	\$227,559		
	KIA F-15-011	\$177,046	\$70,941	\$247,987		
	KIA F-16-027	\$83,951	\$40,000	\$123,951		
	KIA B-15-003	\$66,315	\$11,221	\$77,537		
	<b>Total Subordinate Debt</b>	<b>\$1,830,630</b>	<b>\$665,544</b>	<b>\$2,496,174</b>		<b>\$2,496,174</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$19,545,433</b>



Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2022 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$56,000	\$77,950	\$133,950		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$1,140,000	\$934,962	\$2,074,962		
	2012	\$4,590,000	\$1,350,750	\$5,940,750		
	2013A	\$835,000	\$891,651	\$1,726,651		
	2013B	\$1,430,000	\$489,450	\$1,919,450		
	2014A	\$28,000	\$45,801	\$73,801		
	2014B	\$465,000	\$135,263	\$600,263		
	2016A	\$2,450,000	\$1,235,900	\$3,685,900		
	2018	\$575,000	\$672,110	\$1,247,110		
	<b>Total Senior Debt</b>	<b>\$11,569,000</b>	<b>\$5,833,837</b>	<b>\$17,402,837</b>		<b>\$17,402,837</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$198,676	\$28,110	\$226,786		
	KIA F-09-02	\$1,168,646	\$329,876	\$1,498,522		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$181,472	\$70,285	\$251,757		
	KIA F-15-011	\$180,158	\$67,384	\$247,542		
	KIA F-16-027	\$170,113	\$77,474	\$247,587		
	KIA B-15-003	\$66,814	\$10,590	\$77,404		
	<b>Total Subordinate Debt</b>	<b>\$1,965,879</b>	<b>\$674,179</b>	<b>\$2,640,058</b>		<b>\$2,640,058</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$20,042,895</b>
<b>2023 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$59,000	\$75,075	\$134,075		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$1,185,000	\$888,462	\$2,073,462		
	2012	\$4,720,000	\$1,118,000	\$5,838,000		
	2013A	\$880,000	\$848,776	\$1,728,776		
	2013B	\$1,500,000	\$416,200	\$1,916,200		
	2014A	\$28,500	\$45,024	\$73,524		
	2014B	\$485,000	\$116,363	\$601,363		
	2016A	\$2,685,000	\$1,107,525	\$3,792,525		
	2018	\$590,000	\$655,940	\$1,245,940		
	<b>Total Senior Debt</b>	<b>\$12,132,500</b>	<b>\$5,271,365</b>	<b>\$17,403,865</b>		<b>\$17,403,865</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$200,668	\$25,620	\$226,288		
	KIA F-09-02	\$1,192,135	\$303,450	\$1,495,585		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$184,662	\$66,639	\$251,301		
	KIA F-15-011	\$183,325	\$63,766	\$247,090		
	KIA F-16-027	\$173,103	\$74,057	\$247,160		
	KIA B-15-003	\$67,316	\$9,954	\$77,270		
	<b>Total Subordinate Debt</b>	<b>\$2,001,208</b>	<b>\$633,946</b>	<b>\$2,635,154</b>		<b>\$2,635,154</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$20,039,019</b>

Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2024 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$62,000	\$72,050	\$134,050		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$1,235,000	\$840,062	\$2,075,062		
	2012	\$4,970,000	\$875,750	\$5,845,750		
	2013A	\$925,000	\$803,651	\$1,728,651		
	2013B	\$1,570,000	\$347,300	\$1,917,300		
	2014A	\$29,500	\$44,227	\$73,727		
	2014B	\$495,000	\$101,663	\$596,663		
	2016A	\$2,715,000	\$972,525	\$3,687,525		
	2018	\$605,000	\$638,760	\$1,243,760		
	<b>Total Senior Debt</b>	<b>\$12,606,500</b>	<b>\$4,695,988</b>	<b>\$17,302,488</b>		<b>\$17,302,488</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$202,680	\$23,106	\$225,786		
	KIA F-09-02	\$1,216,098	\$276,493	\$1,492,591		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$187,908	\$62,930	\$250,838		
	KIA F-15-011	\$186,547	\$60,083	\$246,630		
	KIA F-16-027	\$176,145	\$70,580	\$246,725		
	KIA B-15-003	\$67,822	\$9,314	\$77,135		
	<b>Total Subordinate Debt</b>	<b>\$2,037,199</b>	<b>\$592,965</b>	<b>\$2,630,165</b>		<b>\$2,630,165</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$19,932,653</b>
<b>2025 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$65,000	\$68,875	\$133,875		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$1,285,000	\$789,662	\$2,074,662		
	2012	\$5,220,000	\$621,000	\$5,841,000		
	2013A	\$970,000	\$756,276	\$1,726,276		
	2013B	\$1,635,000	\$283,200	\$1,918,200		
	2014A	\$30,500	\$43,402	\$73,902		
	2014B	\$515,000	\$83,938	\$598,938		
	2016A	\$2,865,000	\$833,025	\$3,698,025		
	2018	\$625,000	\$620,613	\$1,245,613		
	<b>Total Senior Debt</b>	<b>\$13,210,500</b>	<b>\$4,099,991</b>	<b>\$17,310,491</b>		<b>\$17,310,491</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$204,711	\$20,566	\$225,277		
	KIA F-09-02	\$1,240,541	\$248,994	\$1,489,535		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$191,211	\$59,155	\$250,366		
	KIA F-15-011	\$189,826	\$56,336	\$246,161		
	KIA F-16-027	\$179,241	\$67,041	\$246,283		
	KIA B-15-003	\$68,331	\$8,668	\$76,999		
	<b>Total Subordinate Debt</b>	<b>\$2,073,861</b>	<b>\$551,221</b>	<b>\$2,625,081</b>		<b>\$2,625,081</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$19,935,572</b>

Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2026 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$68,000	\$65,550	\$133,550		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$1,340,000	\$736,325	\$2,076,325		
	2012	\$5,495,000	\$353,125	\$5,848,125		
	2013A	\$1,020,000	\$706,526	\$1,726,526		
	2013B	\$1,700,000	\$216,500	\$1,916,500		
	2014A	\$31,000	\$42,556	\$73,556		
	2014B	\$540,000	\$62,838	\$602,838		
	2016A	\$3,015,000	\$686,025	\$3,701,025		
	2018	\$645,000	\$600,918	\$1,245,918		
	<b>Total Senior Debt</b>	<b>\$13,854,000</b>	<b>\$3,470,363</b>	<b>\$17,324,363</b>		<b>\$17,324,363</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$206,764	\$18,001	\$224,765		
	KIA F-09-02	\$1,265,476	\$220,942	\$1,486,418		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$194,571	\$55,314	\$249,886		
	KIA F-15-011	\$193,162	\$52,523	\$245,685		
	KIA F-16-027	\$182,392	\$63,441	\$245,833		
	KIA B-15-003	\$68,845	\$8,018	\$76,862		
	<b>Total Subordinate Debt</b>	<b>\$2,111,210</b>	<b>\$508,699</b>	<b>\$2,619,908</b>		<b>\$2,619,908</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$19,944,271</b>
<b>2027 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$72,000	\$62,050	\$134,050		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$1,395,000	\$679,044	\$2,074,044		
	2012	\$4,315,000	\$107,875	\$4,422,875		
	2013A	\$1,070,000	\$659,626	\$1,729,626		
	2013B	\$1,780,000	\$138,000	\$1,918,000		
	2014A	\$32,000	\$41,690	\$73,690		
	2014B	\$550,000	\$43,788	\$593,788		
	2016A	\$3,170,000	\$531,400	\$3,701,400		
	2018	\$665,000	\$579,459	\$1,244,459		
	<b>Total Senior Debt</b>	<b>\$13,049,000</b>	<b>\$2,842,932</b>	<b>\$15,891,932</b>		<b>\$15,891,932</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$208,837	\$15,409	\$224,246		
	KIA F-09-02	\$1,290,912	\$192,327	\$1,483,239		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$197,991	\$51,406	\$249,397		
	KIA F-15-011	\$196,557	\$48,642	\$245,200		
	KIA F-16-027	\$185,597	\$59,777	\$245,375		
	KIA B-15-003	\$69,362	\$7,362	\$76,724		
	<b>Total Subordinate Debt</b>	<b>\$2,149,257</b>	<b>\$465,384</b>	<b>\$2,614,641</b>		<b>\$2,614,641</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$18,506,573</b>

Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2028 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$75,000	\$58,375	\$133,375		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$1,460,000	\$618,375	\$2,078,375		
	2012	\$0	\$0	\$0		
	2013A	\$1,110,000	\$616,026	\$1,726,026		
	2013B	\$1,870,000	\$46,750	\$1,916,750		
	2014A	\$33,000	\$40,796	\$73,796		
	2014B	\$570,000	\$26,988	\$596,988		
	2016A	\$3,300,000	\$402,650	\$3,702,650		
	2018	\$690,000	\$556,763	\$1,246,763		
	<b>Total Senior Debt</b>	<b>\$9,108,000</b>	<b>\$2,366,723</b>	<b>\$11,474,723</b>		<b>\$11,474,723</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$210,930	\$12,793	\$223,723		
	KIA F-09-02	\$1,316,859	\$163,136	\$1,479,995		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$201,471	\$47,429	\$248,900		
	KIA F-15-011	\$200,012	\$44,694	\$244,706		
	KIA F-16-027	\$188,860	\$56,049	\$244,909		
	KIA B-15-003	\$69,883	\$6,702	\$76,585		
	<b>Total Subordinate Debt</b>	<b>\$2,188,015</b>	<b>\$421,263</b>	<b>\$2,609,278</b>		<b>\$2,609,278</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$14,084,001</b>
<b>2029 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$79,000	\$54,525	\$133,525		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$1,520,000	\$555,050	\$2,075,050		
	2012	\$0	\$0	\$0		
	2013A	\$1,155,000	\$570,726	\$1,725,726		
	2013B	\$0	\$0	\$0		
	2014A	\$33,500	\$39,882	\$73,382		
	2014B	\$590,000	\$9,219	\$599,219		
	2016A	\$3,425,000	\$284,650	\$3,709,650		
	2018	\$715,000	\$532,872	\$1,247,872		
	<b>Total Senior Debt</b>	<b>\$7,517,500</b>	<b>\$2,046,924</b>	<b>\$9,564,424</b>		<b>\$9,564,424</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$213,045	\$10,149	\$223,194		
	KIA F-09-02	\$1,343,328	\$133,358	\$1,476,686		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$205,012	\$43,382	\$248,394		
	KIA F-15-011	\$203,528	\$40,676	\$244,204		
	KIA F-16-027	\$192,179	\$52,255	\$244,434		
	KIA B-15-003	\$70,408	\$6,037	\$76,445		
	<b>Total Subordinate Debt</b>	<b>\$2,227,500</b>	<b>\$376,318</b>	<b>\$2,603,818</b>		<b>\$2,603,818</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$12,168,242</b>

Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2030 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$83,000	\$50,475	\$133,475		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$1,590,000	\$486,975	\$2,076,975		
	2012	\$0	\$0	\$0		
	2013A	\$1,205,000	\$523,526	\$1,728,526		
	2013B	\$0	\$0	\$0		
	2014A	\$34,500	\$38,947	\$73,447		
	2014B	\$0	\$0	\$0		
	2016A	\$3,545,000	\$162,975	\$3,707,975		
	2018	\$740,000	\$507,588	\$1,247,588		
	<b>Total Senior Debt</b>	<b>\$7,197,500</b>	<b>\$1,770,486</b>	<b>\$8,967,986</b>		<b>\$8,967,986</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$215,181	\$7,480	\$222,661		
	KIA F-09-02	\$1,370,329	\$102,982	\$1,473,311		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$208,616	\$39,264	\$247,879		
	KIA F-15-011	\$207,105	\$36,588	\$243,693		
	KIA F-16-027	\$195,557	\$48,395	\$243,952		
	KIA B-15-003	\$70,937	\$5,367	\$76,304		
	<b>Total Subordinate Debt</b>	<b>\$2,267,725</b>	<b>\$330,536</b>	<b>\$2,598,261</b>		<b>\$2,598,261</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$11,566,247</b>
<b>2031 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$87,000	\$46,225	\$133,225		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$1,660,000	\$413,850	\$2,073,850		
	2012	\$0	\$0	\$0		
	2013A	\$1,255,000	\$473,541	\$1,728,541		
	2013B	\$0	\$0	\$0		
	2014A	\$35,500	\$37,984	\$73,484		
	2014B	\$0	\$0	\$0		
	2016A	\$3,660,000	\$54,900	\$3,714,900		
	2018	\$765,000	\$481,059	\$1,246,059		
	<b>Total Senior Debt</b>	<b>\$7,462,500</b>	<b>\$1,507,559</b>	<b>\$8,970,059</b>		<b>\$8,970,059</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$217,338	\$4,783	\$222,121		
	KIA F-09-02	\$1,397,873	\$71,996	\$1,469,869		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$212,283	\$35,073	\$247,356		
	KIA F-15-011	\$210,745	\$32,428	\$243,173		
	KIA F-16-027	\$198,994	\$44,467	\$243,461		
	KIA B-15-003	\$71,470	\$4,692	\$76,162		
	<b>Total Subordinate Debt</b>	<b>\$2,308,703</b>	<b>\$283,898</b>	<b>\$2,592,601</b>		<b>\$2,592,601</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$11,562,660</b>

Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2032 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$92,000	\$41,750	\$133,750		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$1,745,000	\$332,875	\$2,077,875		
	2012	\$0	\$0	\$0		
	2013A	\$1,310,000	\$418,181	\$1,728,181		
	2013B	\$0	\$0	\$0		
	2014A	\$36,500	\$36,994	\$73,494		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$795,000	\$452,971	\$1,247,971		
<b>Total Senior Debt</b>		<b>\$3,978,500</b>	<b>\$1,282,771</b>	<b>\$5,261,271</b>		<b>\$5,261,271</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$219,516	\$2,060	\$221,576		
	KIA F-09-02	\$1,425,970	\$40,387	\$1,466,357		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$216,014	\$30,809	\$246,823		
	KIA F-15-011	\$214,449	\$28,194	\$242,644		
	KIA F-16-027	\$202,492	\$40,469	\$242,961		
	KIA B-15-003	\$72,007	\$4,012	\$76,019		
<b>Total Subordinate Debt</b>		<b>\$2,350,448</b>	<b>\$236,391</b>	<b>\$2,586,839</b>		<b>\$2,586,839</b>
<b>Total Debt Service Senior &amp; Subordinate</b>						<b>\$7,848,110</b>
<b>2033 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$96,000	\$37,050	\$133,050		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$1,835,000	\$243,375	\$2,078,375		
	2012	\$0	\$0	\$0		
	2013A	\$1,370,000	\$357,881	\$1,727,881		
	2013B	\$0	\$0	\$0		
	2014A	\$37,500	\$35,977	\$73,477		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$820,000	\$423,087	\$1,243,087		
<b>Total Senior Debt</b>		<b>\$4,158,500</b>	<b>\$1,097,370</b>	<b>\$5,255,870</b>		<b>\$5,255,870</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$723,695	\$8,141	\$731,836		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$219,811	\$26,470	\$246,280		
	KIA F-15-011	\$218,219	\$23,887	\$242,105		
	KIA F-16-027	\$206,051	\$36,402	\$242,453		
	KIA B-15-003	\$72,548	\$3,326	\$75,875		
<b>Total Subordinate Debt</b>		<b>\$1,440,323</b>	<b>\$188,685</b>	<b>\$1,629,009</b>		<b>\$1,629,009</b>
<b>Total Debt Service Senior &amp; Subordinate</b>						<b>\$6,884,879</b>

Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2034 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$102,000	\$32,100	\$134,100		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$1,925,000	\$149,375	\$2,074,375		
	2012	\$0	\$0	\$0		
	2013A	\$1,430,000	\$296,669	\$1,726,669		
	2013B	\$0	\$0	\$0		
	2014A	\$38,500	\$34,932	\$73,432		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$855,000	\$391,467	\$1,246,467		
	<b>Total Senior Debt</b>	<b>\$4,350,500</b>	<b>\$904,543</b>	<b>\$5,255,043</b>		<b>\$5,255,043</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$223,674	\$22,054	\$245,728		
	KIA F-15-011	\$222,054	\$19,503	\$241,557		
	KIA F-16-027	\$209,673	\$32,263	\$241,935		
	KIA B-15-003	\$73,094	\$2,636	\$75,729		
	<b>Total Subordinate Debt</b>	<b>\$728,494</b>	<b>\$166,916</b>	<b>\$895,410</b>		<b>\$895,410</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$6,150,453</b>
<b>2035 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$107,000	\$26,875	\$133,875		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$2,025,000	\$50,625	\$2,075,625		
	2012	\$0	\$0	\$0		
	2013A	\$1,490,000	\$235,550	\$1,725,550		
	2013B	\$0	\$0	\$0		
	2014A	\$39,500	\$33,859	\$73,359		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$890,000	\$358,090	\$1,248,090		
	<b>Total Senior Debt</b>	<b>\$4,551,500</b>	<b>\$704,999</b>	<b>\$5,256,499</b>		<b>\$5,256,499</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$227,606	\$17,561	\$245,167		
	KIA F-15-011	\$225,957	\$15,043	\$241,000		
	KIA F-16-027	\$213,358	\$28,051	\$241,409		
	KIA B-15-003	\$73,643	\$1,940	\$75,583		
	<b>Total Subordinate Debt</b>	<b>\$740,563</b>	<b>\$153,055</b>	<b>\$893,618</b>		<b>\$893,618</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$6,150,117</b>

Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2036 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$112,000	\$21,400	\$133,400		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$1,555,000	\$172,747	\$1,727,747		
	2013B	\$0	\$0	\$0		
	2014A	\$41,000	\$32,752	\$73,752		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$925,000	\$322,920	\$1,247,920		
	<b>Total Senior Debt</b>	<b>\$2,633,000</b>	<b>\$549,819</b>	<b>\$3,182,819</b>		<b>\$3,182,819</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$231,606	\$12,989	\$244,595		
	KIA F-15-011	\$229,929	\$10,504	\$240,432		
	KIA F-16-027	\$217,108	\$23,765	\$240,873		
	KIA B-15-003	\$74,196	\$1,239	\$75,435		
	<b>Total Subordinate Debt</b>	<b>\$752,839</b>	<b>\$138,957</b>	<b>\$891,796</b>		<b>\$891,796</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$4,074,615</b>
<b>2037 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$118,000	\$15,650	\$133,650		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$1,620,000	\$106,251	\$1,726,251		
	2013B	\$0	\$0	\$0		
	2014A	\$42,000	\$31,611	\$73,611		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$960,000	\$286,162	\$1,246,162		
	<b>Total Senior Debt</b>	<b>\$2,740,000</b>	<b>\$439,674</b>	<b>\$3,179,674</b>		<b>\$3,179,674</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$235,677	\$8,337	\$244,014		
	KIA F-15-011	\$233,970	\$5,885	\$239,855		
	KIA F-16-027	\$220,924	\$19,404	\$240,328		
	KIA B-15-003	\$74,753	\$533	\$75,287		
	<b>Total Subordinate Debt</b>	<b>\$765,324</b>	<b>\$124,619</b>	<b>\$889,943</b>		<b>\$889,943</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$4,069,617</b>



Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2038 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$124,000	\$9,600	\$133,600		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$1,690,000	\$35,913	\$1,725,913		
	2013B	\$0	\$0	\$0		
	2014A	\$43,000	\$30,443	\$73,443		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$1,000,000	\$247,942	\$1,247,942		
	<b>Total Senior Debt</b>	<b>\$2,857,000</b>	<b>\$323,898</b>	<b>\$3,180,898</b>		<b>\$3,180,898</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$90,460	\$90,460		
	KIA F-14-015	\$239,819	\$3,602	\$243,422		
	KIA F-15-011	\$118,523	\$1,185	\$119,708		
	KIA F-16-027	\$224,807	\$14,966	\$239,773		
	KIA B-15-003	\$0	\$0	\$0		
	<b>Total Subordinate Debt</b>	<b>\$583,149</b>	<b>\$110,214</b>	<b>\$693,363</b>		<b>\$693,363</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$3,874,261</b>
<b>2039 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$130,000	\$3,250	\$133,250		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$0	\$0	\$0		
	2013B	\$0	\$0	\$0		
	2014A	\$44,000	\$29,247	\$73,247		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$1,040,000	\$207,902	\$1,247,902		
	<b>Total Senior Debt</b>	<b>\$1,214,000</b>	<b>\$240,399</b>	<b>\$1,454,399</b>		<b>\$1,454,399</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$0	\$0		
	KIA F-14-015	\$0	\$0	\$0		
	KIA F-15-011	\$0	\$0	\$0		
	KIA F-16-027	\$228,758	\$10,450	\$239,209		
	KIA B-15-003	\$0	\$0	\$0		
	<b>Total Subordinate Debt</b>	<b>\$228,758</b>	<b>\$10,450</b>	<b>\$239,209</b>		<b>\$239,209</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$1,693,608</b>

Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2040 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$0	\$0	\$0		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$0	\$0	\$0		
	2013B	\$0	\$0	\$0		
	2014A	\$45,500	\$28,016	\$73,516		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$1,080,000	\$165,762	\$1,245,762		
<b>Total Senior Debt</b>		<b>\$1,125,500</b>	<b>\$193,778</b>	<b>\$1,319,278</b>		<b>\$1,319,278</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$0	\$0		
	KIA F-14-015	\$0	\$0	\$0		
	KIA F-15-011	\$0	\$0	\$0		
	KIA F-16-027	\$232,779	\$5,855	\$238,634		
	KIA B-15-003	\$0	\$0	\$0		
<b>Total Subordinate Debt</b>		<b>\$232,779</b>	<b>\$5,855</b>	<b>\$238,634</b>		<b>\$238,634</b>
<b>Total Debt Service Senior &amp; Subordinate</b>						<b>\$1,557,912</b>
<b>2041 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$0	\$0	\$0		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$0	\$0	\$0		
	2013B	\$0	\$0	\$0		
	2014A	\$46,500	\$26,751	\$73,251		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$1,125,000	\$121,381	\$1,246,381		
<b>Total Senior Debt</b>		<b>\$1,171,500</b>	<b>\$148,132</b>	<b>\$1,319,632</b>		<b>\$1,319,632</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$0	\$0		
	KIA F-14-015	\$0	\$0	\$0		
	KIA F-15-011	\$0	\$0	\$0		
	KIA F-16-027	\$117,919	\$1,179	\$119,098		
	KIA B-15-003	\$0	\$0	\$0		
<b>Total Subordinate Debt</b>		<b>\$117,919</b>	<b>\$1,179</b>	<b>\$119,098</b>		<b>\$119,098</b>
<b>Total Debt Service Senior &amp; Subordinate</b>						<b>\$1,438,730</b>

Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2042 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$0	\$0	\$0		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$0	\$0	\$0		
	2013B	\$0	\$0	\$0		
	2014A	\$48,000	\$25,452	\$73,452		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$1,170,000	\$74,615	\$1,244,615		
<b>Total Senior Debt</b>		<b>\$1,218,000</b>	<b>\$100,067</b>	<b>\$1,318,067</b>		<b>\$1,318,067</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$0	\$0		
	KIA F-14-015	\$0	\$0	\$0		
	KIA F-15-011	\$0	\$0	\$0		
	KIA F-16-027	\$0	\$0	\$0		
	KIA B-15-003	\$0	\$0	\$0		
<b>Total Subordinate Debt</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>
<b>Total Debt Service Senior &amp; Subordinate</b>						<b>\$1,318,067</b>
<b>2043 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$0	\$0	\$0		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$0	\$0	\$0		
	2013B	\$0	\$0	\$0		
	2014A	\$49,500	\$24,111	\$73,611		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$1,220,000	\$25,315	\$1,245,315		
<b>Total Senior Debt</b>		<b>\$1,269,500</b>	<b>\$49,426</b>	<b>\$1,318,926</b>		<b>\$1,318,926</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$0	\$0		
	KIA F-14-015	\$0	\$0	\$0		
	KIA F-15-011	\$0	\$0	\$0		
	KIA F-16-027	\$0	\$0	\$0		
	KIA B-15-003	\$0	\$0	\$0		
<b>Total Subordinate Debt</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>
<b>Total Debt Service Senior &amp; Subordinate</b>						<b>\$1,318,926</b>

Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2044 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$0	\$0	\$0		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$0	\$0	\$0		
	2013B	\$0	\$0	\$0		
	2014A	\$50,500	\$22,736	\$73,236		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$0	\$0	\$0		
	<b>Total Senior Debt</b>	<b>\$50,500</b>	<b>\$22,736</b>	<b>\$73,236</b>		<b>\$73,236</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$0	\$0		
	KIA F-14-015	\$0	\$0	\$0		
	KIA F-15-011	\$0	\$0	\$0		
	KIA F-16-027	\$0	\$0	\$0		
	KIA B-15-003	\$0	\$0	\$0		
	<b>Total Subordinate Debt</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$73,236</b>
<b>2045 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$0	\$0	\$0		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$0	\$0	\$0		
	2013B	\$0	\$0	\$0		
	2014A	\$52,000	\$21,327	\$73,327		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$0	\$0	\$0		
	<b>Total Senior Debt</b>	<b>\$52,000</b>	<b>\$21,327</b>	<b>\$73,327</b>		<b>\$73,327</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$0	\$0		
	KIA F-14-015	\$0	\$0	\$0		
	KIA F-15-011	\$0	\$0	\$0		
	KIA F-16-027	\$0	\$0	\$0		
	KIA B-15-003	\$0	\$0	\$0		
	<b>Total Subordinate Debt</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$73,327</b>

Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2046 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$0	\$0	\$0		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$0	\$0	\$0		
	2013B	\$0	\$0	\$0		
	2014A	\$53,500	\$19,876	\$73,376		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$0	\$0	\$0		
	<b>Total Senior Debt</b>	<b>\$53,500</b>	<b>\$19,876</b>	<b>\$73,376</b>		<b>\$73,376</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$0	\$0		
	KIA F-14-015	\$0	\$0	\$0		
	KIA F-15-011	\$0	\$0	\$0		
	KIA F-16-027	\$0	\$0	\$0		
	KIA B-15-003	\$0	\$0	\$0		
	<b>Total Subordinate Debt</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$73,376</b>
<b>2047 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$0	\$0	\$0		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$0	\$0	\$0		
	2013B	\$0	\$0	\$0		
	2014A	\$55,000	\$18,384	\$73,384		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$0	\$0	\$0		
	<b>Total Senior Debt</b>	<b>\$55,000</b>	<b>\$18,384</b>	<b>\$73,384</b>		<b>\$73,384</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$0	\$0		
	KIA F-14-015	\$0	\$0	\$0		
	KIA F-15-011	\$0	\$0	\$0		
	KIA F-16-027	\$0	\$0	\$0		
	KIA B-15-003	\$0	\$0	\$0		
	<b>Total Subordinate Debt</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$73,384</b>

Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2048 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$0	\$0	\$0		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$0	\$0	\$0		
	2013B	\$0	\$0	\$0		
	2014A	\$56,500	\$16,851	\$73,351		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$0	\$0	\$0		
	<b>Total Senior Debt</b>	<b>\$56,500</b>	<b>\$16,851</b>	<b>\$73,351</b>		<b>\$73,351</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$0	\$0		
	KIA F-14-015	\$0	\$0	\$0		
	KIA F-15-011	\$0	\$0	\$0		
	KIA F-16-027	\$0	\$0	\$0		
	KIA B-15-003	\$0	\$0	\$0		
	<b>Total Subordinate Debt</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$73,351</b>
<b>2049 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$0	\$0	\$0		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$0	\$0	\$0		
	2013B	\$0	\$0	\$0		
	2014A	\$58,000	\$15,276	\$73,276		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$0	\$0	\$0		
	<b>Total Senior Debt</b>	<b>\$58,000</b>	<b>\$15,276</b>	<b>\$73,276</b>		<b>\$73,276</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$0	\$0		
	KIA F-14-015	\$0	\$0	\$0		
	KIA F-15-011	\$0	\$0	\$0		
	KIA F-16-027	\$0	\$0	\$0		
	KIA B-15-003	\$0	\$0	\$0		
	<b>Total Subordinate Debt</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$73,276</b>

Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2050 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$0	\$0	\$0		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$0	\$0	\$0		
	2013B	\$0	\$0	\$0		
	2014A	\$59,500	\$13,660	\$73,160		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$0	\$0	\$0		
	<b>Total Senior Debt</b>	<b>\$59,500</b>	<b>\$13,660</b>	<b>\$73,160</b>		<b>\$73,160</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$0	\$0		
	KIA F-14-015	\$0	\$0	\$0		
	KIA F-15-011	\$0	\$0	\$0		
	KIA F-16-027	\$0	\$0	\$0		
	KIA B-15-003	\$0	\$0	\$0		
	<b>Total Subordinate Debt</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$73,160</b>
<b>2051 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$0	\$0	\$0		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$0	\$0	\$0		
	2013B	\$0	\$0	\$0		
	2014A	\$61,000	\$12,004	\$73,004		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$0	\$0	\$0		
	<b>Total Senior Debt</b>	<b>\$61,000</b>	<b>\$12,004</b>	<b>\$73,004</b>		<b>\$73,004</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$0	\$0		
	KIA F-14-015	\$0	\$0	\$0		
	KIA F-15-011	\$0	\$0	\$0		
	KIA F-16-027	\$0	\$0	\$0		
	KIA B-15-003	\$0	\$0	\$0		
	<b>Total Subordinate Debt</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$73,004</b>

Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2052 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$0	\$0	\$0		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$0	\$0	\$0		
	2013B	\$0	\$0	\$0		
	2014A	\$63,000	\$10,299	\$73,299		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$0	\$0	\$0		
<b>Total Senior Debt</b>		<b>\$63,000</b>	<b>\$10,299</b>	<b>\$73,299</b>		<b>\$73,299</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$0	\$0		
	KIA F-14-015	\$0	\$0	\$0		
	KIA F-15-011	\$0	\$0	\$0		
	KIA F-16-027	\$0	\$0	\$0		
	KIA B-15-003	\$0	\$0	\$0		
<b>Total Subordinate Debt</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>
<b>Total Debt Service Senior &amp; Subordinate</b>						<b>\$73,299</b>
<b>2053 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$0	\$0	\$0		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$0	\$0	\$0		
	2013B	\$0	\$0	\$0		
	2014A	\$64,500	\$8,545	\$73,045		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$0	\$0	\$0		
<b>Total Senior Debt</b>		<b>\$64,500</b>	<b>\$8,545</b>	<b>\$73,045</b>		<b>\$73,045</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$0	\$0		
	KIA F-14-015	\$0	\$0	\$0		
	KIA F-15-011	\$0	\$0	\$0		
	KIA F-16-027	\$0	\$0	\$0		
	KIA B-15-003	\$0	\$0	\$0		
<b>Total Subordinate Debt</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>
<b>Total Debt Service Senior &amp; Subordinate</b>						<b>\$73,045</b>



Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2054 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$0	\$0	\$0		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$0	\$0	\$0		
	2013B	\$0	\$0	\$0		
	2014A	\$66,500	\$6,744	\$73,244		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$0	\$0	\$0		
	<b>Total Senior Debt</b>	<b>\$66,500</b>	<b>\$6,744</b>	<b>\$73,244</b>		<b>\$73,244</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$0	\$0		
	KIA F-14-015	\$0	\$0	\$0		
	KIA F-15-011	\$0	\$0	\$0		
	KIA F-16-027	\$0	\$0	\$0		
	KIA B-15-003	\$0	\$0	\$0		
	<b>Total Subordinate Debt</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$73,244</b>
<b>2055 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$0	\$0	\$0		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$0	\$0	\$0		
	2013B	\$0	\$0	\$0		
	2014A	\$68,500	\$4,888	\$73,388		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$0	\$0	\$0		
	<b>Total Senior Debt</b>	<b>\$68,500</b>	<b>\$4,888</b>	<b>\$73,388</b>		<b>\$73,388</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$0	\$0		
	KIA F-14-015	\$0	\$0	\$0		
	KIA F-15-011	\$0	\$0	\$0		
	KIA F-16-027	\$0	\$0	\$0		
	KIA B-15-003	\$0	\$0	\$0		
	<b>Total Subordinate Debt</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>
	<b>Total Debt Service Senior &amp; Subordinate</b>					<b>\$73,388</b>

Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>2056 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$0	\$0	\$0		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$0	\$0	\$0		
	2013B	\$0	\$0	\$0		
	2014A	\$70,000	\$2,984	\$72,984		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$0	\$0	\$0		
<b>Total Senior Debt</b>		<b>\$70,000</b>	<b>\$2,984</b>	<b>\$72,984</b>		<b>\$72,984</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$0	\$0		
	KIA F-14-015	\$0	\$0	\$0		
	KIA F-15-011	\$0	\$0	\$0		
	KIA F-16-027	\$0	\$0	\$0		
	KIA B-15-003	\$0	\$0	\$0		
<b>Total Subordinate Debt</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>
<b>Total Debt Service Senior &amp; Subordinate</b>						<b>\$72,984</b>
<b>2057 Total</b>						
	1997 Def. 2012	\$0	\$0	\$0		
	1998 Def. 2012	\$0	\$0	\$0		
	USDA 2000	\$0	\$0	\$0		
	2001 Def. 2012	\$0	\$0	\$0		
	2002A Def. 2012	\$0	\$0	\$0		
	2002B Def. 2013	\$0	\$0	\$0		
	2003A def. 2013	\$0	\$0	\$0		
	2003B def. 2013	\$0	\$0	\$0		
	2003C def 2014	\$0	\$0	\$0		
	2004 def 2014	\$0	\$0	\$0		
	2006	\$0	\$0	\$0		
	2009	\$0	\$0	\$0		
	2011	\$0	\$0	\$0		
	2012	\$0	\$0	\$0		
	2013A	\$0	\$0	\$0		
	2013B	\$0	\$0	\$0		
	2014A	\$73,500	\$1,011	\$74,511		
	2014B	\$0	\$0	\$0		
	2016A	\$0	\$0	\$0		
	2018	\$0	\$0	\$0		
<b>Total Senior Debt</b>		<b>\$73,500</b>	<b>\$1,011</b>	<b>\$74,511</b>		<b>\$74,511</b>
	KIA F-06-03	\$0	\$0	\$0		
	KIA C-08-01	\$0	\$0	\$0		
	KIA F-08-07	\$0	\$0	\$0		
	KIA F-09-02	\$0	\$0	\$0		
	KIA F-13-012	\$0	\$0	\$0		
	KIA F-14-015	\$0	\$0	\$0		
	KIA F-15-011	\$0	\$0	\$0		
	KIA F-16-027	\$0	\$0	\$0		
	KIA B-15-003	\$0	\$0	\$0		
<b>Total Subordinate Debt</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>
<b>Total Debt Service Senior &amp; Subordinate</b>						<b>\$74,511</b>
<b>Maximum Debt Service</b>						<b>\$21,031,690</b>
<b>Maximum Senior Debt</b>						<b>\$18,679,861</b>

Northern Kentucky Water District						
Summary of Debt Service						
Effective June 30, 2018						
Year	Series	Principal	Interest	Total		Total Debt Service
<b>Grand Totals:</b>						
Grand Total Senior Debt - Principal				173,254,000		
Grand Total Senior Debt - Interest				63,315,700		
Grand Total Senior Debt - Principal + Interest				236,569,700		
Grand Total Subordinate Debt - Principal				35,203,430		
Grand Total Subordinate Debt - Interest				8,326,814		
Grand Total Subordinate Debt - Principal + Interest				43,530,243		
Grand Total All Debt				280,099,943		
<b>Totals by Series</b>						
<b>Senior Debt Series</b>						
	<b>Series</b>	<b>Principal</b>	<b>Interest</b>	<b>Total</b>		
	1997 Def. 2012	-	-	-		
	1998 Def. 2012	-	-	-		
	USDA 2000	1,741,000	1,112,200	2,853,200		
	2001 Def. 2012	-	-	-		
	2002A Def. 2012	-	-	-		
	2002B Def. 2013	-	-	-		
	2003A def. 2013	-	-	-		
	2003B def. 2013	-	-	-		
	2003C def 2014	-	-	-		
	2004 def 2014	-	-	-		
	2006	-	-	-		
	2009	-	-	-		
	2011	24,505,000	11,317,434	35,822,434		
	2012	41,475,000	10,808,000	52,283,000		
	2013A	23,160,000	11,898,108	35,058,108		
	2013B	15,365,000	4,169,850	19,534,850		
	2014A	1,733,000	1,130,376	2,863,376		
	2014B	8,135,000	1,409,668	9,544,668		
	2016A	37,540,000	11,498,600	49,038,600		
	2018	19,600,000	9,971,464	29,571,464		
	<b>Total Senior Debt</b>	<b>173,254,000</b>	<b>63,315,700</b>	<b>236,569,700</b>		
<b>Subordinate Debt Series</b>						
	KIA F-06-03	-	-	-		
	KIA C-08-01	-	-	-		
	KIA F-08-07	2,978,312	285,713	3,264,025		
	KIA F-09-02	18,863,740	3,447,328	22,311,068		
	KIA F-13-012	-	1,854,430	1,854,430		
	KIA F-14-015	4,000,000	879,457	4,879,457		
	KIA F-15-011	4,000,000	861,167	4,861,167		
	KIA F-16-027	4,000,000	866,341	4,866,341		
	KIA B-15-003	1,361,377	132,378	1,493,755		
	<b>Total Subord. Debt</b>	<b>35,203,430</b>	<b>8,326,814</b>	<b>43,530,243</b>		
	<b>Grand Total All Debt</b>	<b>208,457,430</b>	<b>71,642,514</b>	<b>280,099,943</b>		

USDA 2000					
Effective June 30, 2018					
Payment Date					
Month	Day	Year	Principal	Interest	Total
5	1	2018	\$0	\$0	\$0
11	1	2018	\$0	\$43,525	\$43,525
		<b>2018 Total</b>	<b>\$0</b>	<b>\$43,525</b>	<b>\$43,525</b>
5	1	2019	\$49,000	\$43,525	\$92,525
8	1	2019	\$0	\$42,300	\$42,300
		<b>2019 Total</b>	<b>\$49,000</b>	<b>\$85,825</b>	<b>\$134,825</b>
5	1	2020	\$51,000	\$42,300	\$93,300
11	1	2020	\$0	\$41,025	\$41,025
		<b>2020 Total</b>	<b>\$51,000</b>	<b>\$83,325</b>	<b>\$134,325</b>
5	1	2021	\$54,000	\$41,025	\$95,025
11	1	2021	\$0	\$39,675	\$39,675
		<b>2021 Total</b>	<b>\$54,000</b>	<b>\$80,700</b>	<b>\$134,700</b>
5	1	2022	\$56,000	\$39,675	\$95,675
11	1	2022	\$0	\$38,275	\$38,275
		<b>2022 Total</b>	<b>\$56,000</b>	<b>\$77,950</b>	<b>\$133,950</b>
5	1	2023	\$59,000	\$38,275	\$97,275
11	1	2023	\$0	\$36,800	\$36,800
		<b>2023 Total</b>	<b>\$59,000</b>	<b>\$75,075</b>	<b>\$134,075</b>
5	1	2024	\$62,000	\$36,800	\$98,800
11	1	2024	\$0	\$35,250	\$35,250
		<b>2024 Total</b>	<b>\$62,000</b>	<b>\$72,050</b>	<b>\$134,050</b>
5	1	2025	\$65,000	\$35,250	\$100,250
11	1	2025	\$0	\$33,625	\$33,625
		<b>2025 Total</b>	<b>\$65,000</b>	<b>\$68,875</b>	<b>\$133,875</b>
5	1	2026	\$68,000	\$33,625	\$101,625
11	1	2026	\$0	\$31,925	\$31,925
		<b>2026 Total</b>	<b>\$68,000</b>	<b>\$65,550</b>	<b>\$133,550</b>
5	1	2027	\$72,000	\$31,925	\$103,925
11	1	2027	\$0	\$30,125	\$30,125
		<b>2027 Total</b>	<b>\$72,000</b>	<b>\$62,050</b>	<b>\$134,050</b>
5	1	2028	\$75,000	\$30,125	\$105,125
11	1	2028	\$0	\$28,250	\$28,250
		<b>2028 Total</b>	<b>\$75,000</b>	<b>\$58,375</b>	<b>\$133,375</b>
5	1	2029	\$79,000	\$28,250	\$107,250
11	1	2029	\$0	\$26,275	\$26,275
		<b>2029 Total</b>	<b>\$79,000</b>	<b>\$54,525</b>	<b>\$133,525</b>
5	1	2030	\$83,000	\$26,275	\$109,275
11	1	2030	\$0	\$24,200	\$24,200
		<b>2030 Total</b>	<b>\$83,000</b>	<b>\$50,475</b>	<b>\$133,475</b>
5	1	2031	\$87,000	\$24,200	\$111,200
11	1	2031	\$0	\$22,025	\$22,025
		<b>2031 Total</b>	<b>\$87,000</b>	<b>\$46,225</b>	<b>\$133,225</b>
5	1	2032	\$92,000	\$22,025	\$114,025
11	1	2032	\$0	\$19,725	\$19,725
		<b>2032 Total</b>	<b>\$92,000</b>	<b>\$41,750</b>	<b>\$133,750</b>
5	1	2033	\$96,000	\$19,725	\$115,725
11	1	2033	\$0	\$17,325	\$17,325

<b>USDA 2000</b>					
<b>Effective June 30, 2018</b>					
<b>Payment Date</b>					
<b>Month</b>	<b>Day</b>	<b>Year</b>	<b>Principal</b>	<b>Interest</b>	<b>Total</b>
		<b>2033 Total</b>	<b>\$96,000</b>	<b>\$37,050</b>	<b>\$133,050</b>
5	1	2034	\$102,000	\$17,325	\$119,325
11	1	2034	\$0	\$14,775	\$14,775
		<b>2034 Total</b>	<b>\$102,000</b>	<b>\$32,100</b>	<b>\$134,100</b>
5	1	2035	\$107,000	\$14,775	\$121,775
11	1	2035	\$0	\$12,100	\$12,100
		<b>2035 Total</b>	<b>\$107,000</b>	<b>\$26,875</b>	<b>\$133,875</b>
5	1	2036	\$112,000	\$12,100	\$124,100
11	1	2036	\$0	\$9,300	\$9,300
		<b>2036 Total</b>	<b>\$112,000</b>	<b>\$21,400</b>	<b>\$133,400</b>
5	1	2037	\$118,000	\$9,300	\$127,300
11	1	2037	\$0	\$6,350	\$6,350
		<b>2037 Total</b>	<b>\$118,000</b>	<b>\$15,650</b>	<b>\$133,650</b>
5	1	2038	\$124,000	\$6,350	\$130,350
11	1	2038	\$0	\$3,250	\$3,250
		<b>2038 Total</b>	<b>\$124,000</b>	<b>\$9,600</b>	<b>\$133,600</b>
5	1	2039	\$130,000	\$3,250	\$133,250
		<b>2039 Total</b>	<b>\$130,000</b>	<b>\$3,250</b>	<b>\$133,250</b>
		<b>Grand Total</b>	<b>\$1,741,000</b>	<b>\$1,112,200</b>	<b>\$2,853,200</b>

Series 2011					
Effective June 30, 2018					
Payment Date					
Month	Day	Year	Principal	Interest	Total
2	1	2018	\$0	\$0	\$0
8	1	2018	\$0	\$537,106	\$537,106
		<b>2018 Total</b>	<b>\$0</b>	<b>\$537,106</b>	<b>\$537,106</b>
2	1	2019	\$1,015,000	\$537,106	\$1,552,106
8	1	2019	\$0	\$521,881	\$521,881
		<b>2019 Total</b>	<b>\$1,015,000</b>	<b>\$1,058,987</b>	<b>\$2,073,987</b>
2	1	2020	\$1,055,000	\$521,881	\$1,576,881
8	1	2020	\$0	\$500,781	\$500,781
		<b>2020 Total</b>	<b>\$1,055,000</b>	<b>\$1,022,662</b>	<b>\$2,077,662</b>
2	1	2021	\$1,095,000	\$500,781	\$1,595,781
8	1	2021	\$0	\$478,881	\$478,881
		<b>2021 Total</b>	<b>\$1,095,000</b>	<b>\$979,662</b>	<b>\$2,074,662</b>
2	1	2022	\$1,140,000	\$478,881	\$1,618,881
8	1	2022	\$0	\$456,081	\$456,081
		<b>2022 Total</b>	<b>\$1,140,000</b>	<b>\$934,962</b>	<b>\$2,074,962</b>
2	1	2023	\$1,185,000	\$456,081	\$1,641,081
8	1	2023	\$0	\$432,381	\$432,381
		<b>2023 Total</b>	<b>\$1,185,000</b>	<b>\$888,462</b>	<b>\$2,073,462</b>
2	1	2024	\$1,235,000	\$432,381	\$1,667,381
8	1	2024	\$0	\$407,681	\$407,681
		<b>2024 Total</b>	<b>\$1,235,000</b>	<b>\$840,062</b>	<b>\$2,075,062</b>
2	1	2025	\$1,285,000	\$407,681	\$1,692,681
8	1	2025	\$0	\$381,981	\$381,981
		<b>2025 Total</b>	<b>\$1,285,000</b>	<b>\$789,662</b>	<b>\$2,074,662</b>
2	1	2026	\$1,340,000	\$381,981	\$1,721,981
8	1	2026	\$0	\$354,344	\$354,344
		<b>2026 Total</b>	<b>\$1,340,000</b>	<b>\$736,325</b>	<b>\$2,076,325</b>
2	1	2027	\$1,395,000	\$354,344	\$1,749,344
8	1	2027	\$0	\$324,700	\$324,700
		<b>2027 Total</b>	<b>\$1,395,000</b>	<b>\$679,044</b>	<b>\$2,074,044</b>
2	1	2028	\$1,460,000	\$324,700	\$1,784,700
8	1	2028	\$0	\$293,675	\$293,675
		<b>2028 Total</b>	<b>\$1,460,000</b>	<b>\$618,375</b>	<b>\$2,078,375</b>
2	1	2029	\$1,520,000	\$293,675	\$1,813,675
8	1	2029	\$0	\$261,375	\$261,375
		<b>2029 Total</b>	<b>\$1,520,000</b>	<b>\$555,050</b>	<b>\$2,075,050</b>
2	1	2030	\$1,590,000	\$261,375	\$1,851,375
8	1	2030	\$0	\$225,600	\$225,600
		<b>2030 Total</b>	<b>\$1,590,000</b>	<b>\$486,975</b>	<b>\$2,076,975</b>
2	1	2031	\$1,660,000	\$225,600	\$1,885,600
8	1	2031	\$0	\$188,250	\$188,250
		<b>2031 Total</b>	<b>\$1,660,000</b>	<b>\$413,850</b>	<b>\$2,073,850</b>
2	1	2032	\$1,745,000	\$188,250	\$1,933,250
8	1	2032	\$0	\$144,625	\$144,625
		<b>2032 Total</b>	<b>\$1,745,000</b>	<b>\$332,875</b>	<b>\$2,077,875</b>
2	1	2033	\$1,835,000	\$144,625	\$1,979,625
8	1	2033	\$0	\$98,750	\$98,750
		<b>2033 Total</b>	<b>\$1,835,000</b>	<b>\$243,375</b>	<b>\$2,078,375</b>

<b>Series 2011</b>					
<b>Effective June 30, 2018</b>					
<b>Payment Date</b>					
<b>Month</b>	<b>Day</b>	<b>Year</b>	<b>Principal</b>	<b>Interest</b>	<b>Total</b>
2	1	2034	\$1,925,000	\$98,750	\$2,023,750
8	1	2034	\$0	\$50,625	\$50,625
		<b>2034 Total</b>	<b>\$1,925,000</b>	<b>\$149,375</b>	<b>\$2,074,375</b>
2	1	2035	\$2,025,000	\$50,625	\$2,075,625
8	1	2035	\$0	\$0	\$0
		<b>2035 Total</b>	<b>\$2,025,000</b>	<b>\$50,625</b>	<b>\$2,075,625</b>
		<b>Grand Total</b>	<b>\$24,505,000</b>	<b>\$11,317,434</b>	<b>\$35,822,434</b>

Series 2012					
Effective June 30, 2018					
Payment Date					
Month	Day	Year	Principal	Interest	Total
2	1	2018	\$0	\$0	\$0
8	1	2018	\$0	\$1,036,875	\$1,036,875
		<b>2018 Total</b>	\$0	\$1,036,875	\$1,036,875
2	1	2019	\$3,650,000	\$1,036,875	\$4,686,875
8	1	2019	\$0	\$945,625	\$945,625
		<b>2019 Total</b>	\$3,650,000	\$1,982,500	\$5,632,500
2	1	2020	\$4,150,000	\$945,625	\$5,095,625
8	1	2020	\$0	\$841,875	\$841,875
		<b>2020 Total</b>	\$4,150,000	\$1,787,500	\$5,937,500
2	1	2021	\$4,365,000	\$841,875	\$5,206,875
8	1	2021	\$0	\$732,750	\$732,750
		<b>2021 Total</b>	\$4,365,000	\$1,574,625	\$5,939,625
2	1	2022	\$4,590,000	\$732,750	\$5,322,750
8	1	2022	\$0	\$618,000	\$618,000
		<b>2022 Total</b>	\$4,590,000	\$1,350,750	\$5,940,750
2	1	2023	\$4,720,000	\$618,000	\$5,338,000
8	1	2023	\$0	\$500,000	\$500,000
		<b>2023 Total</b>	\$4,720,000	\$1,118,000	\$5,838,000
2	1	2024	\$4,970,000	\$500,000	\$5,470,000
8	1	2024	\$0	\$375,750	\$375,750
		<b>2024 Total</b>	\$4,970,000	\$875,750	\$5,845,750
2	1	2025	\$5,220,000	\$375,750	\$5,595,750
8	1	2025	\$0	\$245,250	\$245,250
		<b>2025 Total</b>	\$5,220,000	\$621,000	\$5,841,000
2	1	2026	\$5,495,000	\$245,250	\$5,740,250
8	1	2026	\$0	\$107,875	\$107,875
		<b>2026 Total</b>	\$5,495,000	\$353,125	\$5,848,125
2	1	2027	\$4,315,000	\$107,875	\$4,422,875
		<b>2027 Total</b>	\$4,315,000	\$107,875	\$4,422,875
		<b>Grand Total</b>	\$41,475,000	\$10,808,000	\$52,283,000



Series 2013A					
Effective June 30, 2018					
Payment Date					
Month	Day	Year	Principal	Interest	Total
2	1	2018	\$0	\$0	\$0
8	1	2018	\$0	\$513,013	\$513,013
		<b>2018 Total</b>	\$0	\$513,013	\$513,013
2	1	2019	\$720,000	\$513,013	\$1,233,013
8	1	2019	\$0	\$495,013	\$495,013
		<b>2019 Total</b>	\$720,000	\$1,008,026	\$1,728,026
2	1	2020	\$755,000	\$495,013	\$1,250,013
8	1	2020	\$0	\$476,138	\$476,138
		<b>2020 Total</b>	\$755,000	\$971,151	\$1,726,151
2	1	2021	\$795,000	\$476,138	\$1,271,138
8	1	2021	\$0	\$456,263	\$456,263
		<b>2021 Total</b>	\$795,000	\$932,401	\$1,727,401
2	1	2022	\$835,000	\$456,263	\$1,291,263
8	1	2022	\$0	\$435,388	\$435,388
		<b>2022 Total</b>	\$835,000	\$891,651	\$1,726,651
2	1	2023	\$880,000	\$435,388	\$1,315,388
8	1	2023	\$0	\$413,388	\$413,388
		<b>2023 Total</b>	\$880,000	\$848,776	\$1,728,776
2	1	2024	\$925,000	\$413,388	\$1,338,388
8	1	2024	\$0	\$390,263	\$390,263
		<b>2024 Total</b>	\$925,000	\$803,651	\$1,728,651
2	1	2025	\$970,000	\$390,263	\$1,360,263
8	1	2025	\$0	\$366,013	\$366,013
		<b>2025 Total</b>	\$970,000	\$756,276	\$1,726,276
2	1	2026	\$1,020,000	\$366,013	\$1,386,013
8	1	2026	\$0	\$340,513	\$340,513
		<b>2026 Total</b>	\$1,020,000	\$706,526	\$1,726,526
2	1	2027	\$1,070,000	\$340,513	\$1,410,513
8	1	2027	\$0	\$319,113	\$319,113
		<b>2027 Total</b>	\$1,070,000	\$659,626	\$1,729,626
2	1	2028	\$1,110,000	\$319,113	\$1,429,113
8	1	2028	\$0	\$296,913	\$296,913
		<b>2028 Total</b>	\$1,110,000	\$616,026	\$1,726,026
2	1	2029	\$1,155,000	\$296,913	\$1,451,913
8	1	2029	\$0	\$273,813	\$273,813
		<b>2029 Total</b>	\$1,155,000	\$570,726	\$1,725,726
2	1	2030	\$1,205,000	\$273,813	\$1,478,813
8	1	2030	\$0	\$249,713	\$249,713
		<b>2030 Total</b>	\$1,205,000	\$523,526	\$1,728,526
2	1	2031	\$1,255,000	\$249,713	\$1,504,713
8	1	2031	\$0	\$223,828	\$223,828
		<b>2031 Total</b>	\$1,255,000	\$473,541	\$1,728,541
2	1	2032	\$1,310,000	\$223,828	\$1,533,828
8	1	2032	\$0	\$194,353	\$194,353
		<b>2032 Total</b>	\$1,310,000	\$418,181	\$1,728,181
2	1	2033	\$1,370,000	\$194,353	\$1,564,353
8	1	2033	\$0	\$163,528	\$163,528
		<b>2033 Total</b>	\$1,370,000	\$357,881	\$1,727,881
2	1	2034	\$1,430,000	\$163,528	\$1,593,528
8	1	2034	\$0	\$133,141	\$133,141
		<b>2034 Total</b>	\$1,430,000	\$296,669	\$1,726,669

Series 2013A					
Effective June 30, 2018					
Payment Date					
Month	Day	Year	Principal	Interest	Total
2	1	2035	\$1,490,000	\$133,141	\$1,623,141
8	1	2035	\$0	\$102,409	\$102,409
		<b>2035 Total</b>	\$1,490,000	\$235,550	\$1,725,550
2	1	2036	\$1,555,000	\$102,409	\$1,657,409
8	1	2036	\$0	\$70,338	\$70,338
		<b>2036 Total</b>	\$1,555,000	\$172,747	\$1,727,747
2	1	2037	\$1,620,000	\$70,338	\$1,690,338
8	1	2037	\$0	\$35,913	\$35,913
		<b>2037 Total</b>	\$1,620,000	\$106,251	\$1,726,251
2	1	2038	\$1,690,000	\$35,913	\$1,725,913
8	1	2038	\$0	\$0	\$0
		<b>2038 Total</b>	\$1,690,000	\$35,913	\$1,725,913
		<b>Grand Total</b>	\$23,160,000	\$11,898,108	\$35,058,108

Series 2013B					
Effective June 30, 2018					
Payment Date					
Month	Day	Year	Principal	Interest	Total
2	1	2018	\$0	\$0	\$0
8	1	2018	\$0	\$359,600	\$359,600
		<b>2018 Total</b>	\$0	\$359,600	\$359,600
2	1	2019	\$1,230,000	\$359,600	\$1,589,600
8	1	2019	\$0	\$328,850	\$328,850
		<b>2019 Total</b>	\$1,230,000	\$688,450	\$1,918,450
2	1	2020	\$1,295,000	\$328,850	\$1,623,850
8	1	2020	\$0	\$296,475	\$296,475
		<b>2020 Total</b>	\$1,295,000	\$625,325	\$1,920,325
2	1	2021	\$1,355,000	\$296,475	\$1,651,475
8	1	2021	\$0	\$262,600	\$262,600
		<b>2021 Total</b>	\$1,355,000	\$559,075	\$1,914,075
2	1	2022	\$1,430,000	\$262,600	\$1,692,600
8	1	2022	\$0	\$226,850	\$226,850
		<b>2022 Total</b>	\$1,430,000	\$489,450	\$1,919,450
2	1	2023	\$1,500,000	\$226,850	\$1,726,850
8	1	2023	\$0	\$189,350	\$189,350
		<b>2023 Total</b>	\$1,500,000	\$416,200	\$1,916,200
2	1	2024	\$1,570,000	\$189,350	\$1,759,350
8	1	2024	\$0	\$157,950	\$157,950
		<b>2024 Total</b>	\$1,570,000	\$347,300	\$1,917,300
2	1	2025	\$1,635,000	\$157,950	\$1,792,950
8	1	2025	\$0	\$125,250	\$125,250
		<b>2025 Total</b>	\$1,635,000	\$283,200	\$1,918,200
2	1	2026	\$1,700,000	\$125,250	\$1,825,250
8	1	2026	\$0	\$91,250	\$91,250
		<b>2026 Total</b>	\$1,700,000	\$216,500	\$1,916,500
2	1	2027	\$1,780,000	\$91,250	\$1,871,250
8	1	2027	\$0	\$46,750	\$46,750
		<b>2027 Total</b>	\$1,780,000	\$138,000	\$1,918,000
2	1	2028	\$1,870,000	\$46,750	\$1,916,750
8	1	2028	\$0	\$0	\$0
		<b>2028 Total</b>	\$1,870,000	\$46,750	\$1,916,750
		<b>Grand Total</b>	\$15,365,000	\$4,169,850	\$19,534,850

Series 2014A					
Effective June 30, 2018					
Payment Date					
Month	Day	Year	Principal	Interest	Total
2	1	2018	\$0	\$0	\$0
8	1	2018	\$0	\$23,829	\$23,829
		<b>2018 Total</b>	\$0	\$23,829	\$23,829
2	1	2019	\$0	\$23,829	\$23,829
8	1	2019	\$0	\$23,829	\$23,829
		<b>2019 Total</b>	\$0	\$47,658	\$47,658
2	1	2020	\$26,500	\$23,829	\$50,329
8	1	2020	\$0	\$23,464	\$23,464
		<b>2020 Total</b>	\$26,500	\$47,293	\$73,793
2	1	2021	\$27,000	\$23,464	\$50,464
8	1	2021	\$0	\$23,093	\$23,093
		<b>2021 Total</b>	\$27,000	\$46,557	\$73,557
2	1	2022	\$28,000	\$23,093	\$51,093
8	1	2022	\$0	\$22,708	\$22,708
		<b>2022 Total</b>	\$28,000	\$45,801	\$73,801
2	1	2023	\$28,500	\$22,708	\$51,208
8	1	2023	\$0	\$22,316	\$22,316
		<b>2023 Total</b>	\$28,500	\$45,024	\$73,524
2	1	2024	\$29,500	\$22,316	\$51,816
8	1	2024	\$0	\$21,911	\$21,911
		<b>2024 Total</b>	\$29,500	\$44,227	\$73,727
2	1	2025	\$30,500	\$21,911	\$52,411
8	1	2025	\$0	\$21,491	\$21,491
		<b>2025 Total</b>	\$30,500	\$43,402	\$73,902
2	1	2026	\$31,000	\$21,491	\$52,491
8	1	2026	\$0	\$21,065	\$21,065
		<b>2026 Total</b>	\$31,000	\$42,556	\$73,556
2	1	2027	\$32,000	\$21,065	\$53,065
8	1	2027	\$0	\$20,625	\$20,625
		<b>2027 Total</b>	\$32,000	\$41,690	\$73,690
2	1	2028	\$33,000	\$20,625	\$53,625
8	1	2028	\$0	\$20,171	\$20,171
		<b>2028 Total</b>	\$33,000	\$40,796	\$73,796
2	1	2029	\$33,500	\$20,171	\$53,671
8	1	2029	\$0	\$19,711	\$19,711
		<b>2029 Total</b>	\$33,500	\$39,882	\$73,382
2	1	2030	\$34,500	\$19,711	\$54,211
8	1	2030	\$0	\$19,236	\$19,236
		<b>2030 Total</b>	\$34,500	\$38,947	\$73,447
2	1	2031	\$35,500	\$19,236	\$54,736
8	1	2031	\$0	\$18,748	\$18,748
		<b>2031 Total</b>	\$35,500	\$37,984	\$73,484
2	1	2032	\$36,500	\$18,748	\$55,248
8	1	2032	\$0	\$18,246	\$18,246
		<b>2032 Total</b>	\$36,500	\$36,994	\$73,494
2	1	2033	\$37,500	\$18,246	\$55,746
8	1	2033	\$0	\$17,731	\$17,731
		<b>2033 Total</b>	\$37,500	\$35,977	\$73,477
2	1	2034	\$38,500	\$17,731	\$56,231
8	1	2034	\$0	\$17,201	\$17,201
		<b>2034 Total</b>	\$38,500	\$34,932	\$73,432

Series 2014A					
Effective June 30, 2018					
Payment Date					
Month	Day	Year	Principal	Interest	Total
2	1	2035	\$39,500	\$17,201	\$56,701
8	1	2035	\$0	\$16,658	\$16,658
		<b>2035 Total</b>	\$39,500	\$33,859	\$73,359
2	1	2036	\$41,000	\$16,658	\$57,658
8	1	2036	\$0	\$16,094	\$16,094
		<b>2036 Total</b>	\$41,000	\$32,752	\$73,752
2	1	2037	\$42,000	\$16,094	\$58,094
8	1	2037	\$0	\$15,517	\$15,517
		<b>2037 Total</b>	\$42,000	\$31,611	\$73,611
2	1	2038	\$43,000	\$15,517	\$58,517
8	1	2038	\$0	\$14,926	\$14,926
		<b>2038 Total</b>	\$43,000	\$30,443	\$73,443
2	1	2039	\$44,000	\$14,926	\$58,926
8	1	2039	\$0	\$14,321	\$14,321
		<b>2039 Total</b>	\$44,000	\$29,247	\$73,247
2	1	2040	\$45,500	\$14,321	\$59,821
8	1	2040	\$0	\$13,695	\$13,695
		<b>2040 Total</b>	\$45,500	\$28,016	\$73,516
2	1	2041	\$46,500	\$13,695	\$60,195
8	1	2041	\$0	\$13,056	\$13,056
		<b>2041 Total</b>	\$46,500	\$26,751	\$73,251
2	1	2042	\$48,000	\$13,056	\$61,056
8	1	2042	\$0	\$12,396	\$12,396
		<b>2042 Total</b>	\$48,000	\$25,452	\$73,452
2	1	2043	\$49,500	\$12,396	\$61,896
8	1	2043	\$0	\$11,715	\$11,715
		<b>2043 Total</b>	\$49,500	\$24,111	\$73,611
2	1	2044	\$50,500	\$11,715	\$62,215
8	1	2044	\$0	\$11,021	\$11,021
		<b>2044 Total</b>	\$50,500	\$22,736	\$73,236
2	1	2045	\$52,000	\$11,021	\$63,021
8	1	2045	\$0	\$10,306	\$10,306
		<b>2045 Total</b>	\$52,000	\$21,327	\$73,327
2	1	2046	\$53,500	\$10,306	\$63,806
8	1	2046	\$0	\$9,570	\$9,570
		<b>2046 Total</b>	\$53,500	\$19,876	\$73,376
2	1	2047	\$55,000	\$9,570	\$64,570
8	1	2047	\$0	\$8,814	\$8,814
		<b>2047 Total</b>	\$55,000	\$18,384	\$73,384
2	1	2048	\$56,500	\$8,814	\$65,314
8	1	2048	\$0	\$8,037	\$8,037
		<b>2048 Total</b>	\$56,500	\$16,851	\$73,351
2	1	2049	\$58,000	\$8,037	\$66,037
8	1	2049	\$0	\$7,239	\$7,239
		<b>2049 Total</b>	\$58,000	\$15,276	\$73,276
2	1	2050	\$59,500	\$7,239	\$66,739
8	1	2050	\$0	\$6,421	\$6,421
		<b>2050 Total</b>	\$59,500	\$13,660	\$73,160
2	1	2051	\$61,000	\$6,421	\$67,421
8	1	2051	\$0	\$5,583	\$5,583
		<b>2051 Total</b>	\$61,000	\$12,004	\$73,004
2	1	2052	\$63,000	\$5,583	\$68,583
8	1	2052	\$0	\$4,716	\$4,716
		<b>2052 Total</b>	\$63,000	\$10,299	\$73,299
2	1	2053	\$64,500	\$4,716	\$69,216
8	1	2053	\$0	\$3,829	\$3,829
		<b>2053 Total</b>	\$64,500	\$8,545	\$73,045

Series 2014A					
Effective June 30, 2018					
Payment Date					
Month	Day	Year	Principal	Interest	Total
2	1	2054	\$66,500	\$3,829	\$70,329
8	1	2054	\$0	\$2,915	\$2,915
		<b>2054 Total</b>	\$66,500	\$6,744	\$73,244
2	1	2055	\$68,500	\$2,915	\$71,415
8	1	2055	\$0	\$1,973	\$1,973
		<b>2055 Total</b>	\$68,500	\$4,888	\$73,388
2	1	2056	\$70,000	\$1,973	\$71,973
8	1	2056	\$0	\$1,011	\$1,011
		<b>2056 Total</b>	\$70,000	\$2,984	\$72,984
2	1	2057	\$73,500	\$1,011	\$74,511
8	1	2057	\$0	\$0	\$0
		<b>2057 Total</b>	\$73,500	\$1,011	\$74,511
		<b>Grand Total</b>	\$1,733,000	\$1,130,376	\$2,863,376

Series 2014B					
Effective June 30, 2018					
Payment Date					
Month	Day	Year	Principal	Interest	Total
2	1	2018	\$0	\$0	\$0
8	1	2018	\$0	\$171,569	\$171,569
		<b>2018 Total</b>	\$0	\$171,569	\$171,569
2	1	2019	\$1,980,000	\$171,569	\$2,151,569
8	1	2019	\$0	\$122,069	\$122,069
		<b>2019 Total</b>	\$1,980,000	\$293,638	\$2,273,638
2	1	2020	\$1,505,000	\$122,069	\$1,627,069
8	1	2020	\$0	\$84,444	\$84,444
		<b>2020 Total</b>	\$1,505,000	\$206,513	\$1,711,513
2	1	2021	\$440,000	\$84,444	\$524,444
8	1	2021	\$0	\$73,444	\$73,444
		<b>2021 Total</b>	\$440,000	\$157,888	\$597,888
2	1	2022	\$465,000	\$73,444	\$538,444
8	1	2022	\$0	\$61,819	\$61,819
		<b>2022 Total</b>	\$465,000	\$135,263	\$600,263
2	1	2023	\$485,000	\$61,819	\$546,819
8	1	2023	\$0	\$54,544	\$54,544
		<b>2023 Total</b>	\$485,000	\$116,363	\$601,363
2	1	2024	\$495,000	\$54,544	\$549,544
8	1	2024	\$0	\$47,119	\$47,119
		<b>2024 Total</b>	\$495,000	\$101,663	\$596,663
2	1	2025	\$515,000	\$47,119	\$562,119
8	1	2025	\$0	\$36,819	\$36,819
		<b>2025 Total</b>	\$515,000	\$83,938	\$598,938
2	1	2026	\$540,000	\$36,819	\$576,819
8	1	2026	\$0	\$26,019	\$26,019
		<b>2026 Total</b>	\$540,000	\$62,838	\$602,838
2	1	2027	\$550,000	\$26,019	\$576,019
8	1	2027	\$0	\$17,769	\$17,769
		<b>2027 Total</b>	\$550,000	\$43,788	\$593,788
2	1	2028	\$570,000	\$17,769	\$587,769
8	1	2028	\$0	\$9,219	\$9,219
		<b>2028 Total</b>	\$570,000	\$26,988	\$596,988
2	1	2029	\$590,000	\$9,219	\$599,219
8	1	2029	\$0	\$0	\$0
		<b>2029 Total</b>	\$590,000	\$9,219	\$599,219
		<b>Grand Total</b>	\$8,135,000	\$1,409,668	\$9,544,668

Series 2016A					
Effective June 30, 2018					
Payment Date					
Month	Day	Year	Principal	Interest	Total
2	1	2018	\$0	\$0	\$0
8	1	2018	\$0	\$816,325	\$816,325
		<b>2018 Total</b>	\$0	\$816,325	\$816,325
2	1	2019	\$2,005,000	\$816,325	\$2,821,325
8	1	2019	\$0	\$766,200	\$766,200
		<b>2019 Total</b>	\$2,005,000	\$1,582,525	\$3,587,525
2	1	2020	\$2,380,000	\$766,200	\$3,146,200
8	1	2020	\$0	\$706,700	\$706,700
		<b>2020 Total</b>	\$2,380,000	\$1,472,900	\$3,852,900
2	1	2021	\$2,325,000	\$706,700	\$3,031,700
8	1	2021	\$0	\$648,575	\$648,575
		<b>2021 Total</b>	\$2,325,000	\$1,355,275	\$3,680,275
2	1	2022	\$2,450,000	\$648,575	\$3,098,575
8	1	2022	\$0	\$587,325	\$587,325
		<b>2022 Total</b>	\$2,450,000	\$1,235,900	\$3,685,900
2	1	2023	\$2,685,000	\$587,325	\$3,272,325
8	1	2023	\$0	\$520,200	\$520,200
		<b>2023 Total</b>	\$2,685,000	\$1,107,525	\$3,792,525
2	1	2024	\$2,715,000	\$520,200	\$3,235,200
8	1	2024	\$0	\$452,325	\$452,325
		<b>2024 Total</b>	\$2,715,000	\$972,525	\$3,687,525
2	1	2025	\$2,865,000	\$452,325	\$3,317,325
8	1	2025	\$0	\$380,700	\$380,700
		<b>2025 Total</b>	\$2,865,000	\$833,025	\$3,698,025
2	1	2026	\$3,015,000	\$380,700	\$3,395,700
8	1	2026	\$0	\$305,325	\$305,325
		<b>2026 Total</b>	\$3,015,000	\$686,025	\$3,701,025
2	1	2027	\$3,170,000	\$305,325	\$3,475,325
8	1	2027	\$0	\$226,075	\$226,075
		<b>2027 Total</b>	\$3,170,000	\$531,400	\$3,701,400
2	1	2028	\$3,300,000	\$226,075	\$3,526,075
8	1	2028	\$0	\$176,575	\$176,575
		<b>2028 Total</b>	\$3,300,000	\$402,650	\$3,702,650
2	1	2029	\$3,425,000	\$176,575	\$3,601,575
8	1	2029	\$0	\$108,075	\$108,075
		<b>2029 Total</b>	\$3,425,000	\$284,650	\$3,709,650
2	1	2030	\$3,545,000	\$108,075	\$3,653,075
8	1	2030	\$0	\$54,900	\$54,900
		<b>2030 Total</b>	\$3,545,000	\$162,975	\$3,707,975
2	1	2031	\$3,660,000	\$54,900	\$3,714,900
8	1	2031	\$0	\$0	\$0
		<b>2031 Total</b>	\$3,660,000	\$54,900	\$3,714,900
		<b>Grand Total</b>	\$37,540,000	\$11,498,600	\$49,038,600



Series 2018					
Effective June 30, 2018					
Projected Schedule for Conversion of BAN 2017					
Payment Date					
Month	Day	Year	Principal	Interest	Total
2	1	2018	\$0	\$0	\$0
8	1	2018	\$0	\$0	\$0
		<b>2018 Total</b>	\$0	\$0	\$0
2	1	2019	\$0	\$0	\$0
8	1	2019	\$0	\$0	\$0
		<b>2019 Total</b>	\$0	\$0	\$0
2	1	2020	\$545,000	\$353,616	\$898,616
8	1	2020	\$0	\$347,076	\$347,076
		<b>2020 Total</b>	\$545,000	\$700,692	\$1,245,692
2	1	2021	\$560,000	\$347,076	\$907,076
8	1	2021	\$0	\$0	\$0
		<b>2021 Total</b>	\$560,000	\$347,076	\$907,076
2	1	2022	\$575,000	\$339,936	\$914,936
8	1	2022	\$0	\$332,174	\$332,174
		<b>2022 Total</b>	\$575,000	\$672,110	\$1,247,110
2	1	2023	\$590,000	\$332,174	\$922,174
8	1	2023	\$0	\$323,766	\$323,766
		<b>2023 Total</b>	\$590,000	\$655,940	\$1,245,940
2	1	2024	\$605,000	\$323,766	\$928,766
8	1	2024	\$0	\$314,994	\$314,994
		<b>2024 Total</b>	\$605,000	\$638,760	\$1,243,760
2	1	2025	\$625,000	\$314,994	\$939,994
8	1	2025	\$0	\$305,619	\$305,619
		<b>2025 Total</b>	\$625,000	\$620,613	\$1,245,613
2	1	2026	\$645,000	\$305,619	\$950,619
8	1	2026	\$0	\$295,299	\$295,299
		<b>2026 Total</b>	\$645,000	\$600,918	\$1,245,918
2	1	2027	\$665,000	\$295,299	\$960,299
8	1	2027	\$0	\$284,160	\$284,160
		<b>2027 Total</b>	\$665,000	\$579,459	\$1,244,459
2	1	2028	\$690,000	\$284,160	\$974,160
8	1	2028	\$0	\$272,603	\$272,603
		<b>2028 Total</b>	\$690,000	\$556,763	\$1,246,763
2	1	2029	\$715,000	\$272,603	\$987,603
8	1	2029	\$0	\$260,269	\$260,269
		<b>2029 Total</b>	\$715,000	\$532,872	\$1,247,872
2	1	2030	\$740,000	\$260,269	\$1,000,269
8	1	2030	\$0	\$247,319	\$247,319
		<b>2030 Total</b>	\$740,000	\$507,588	\$1,247,588
2	1	2031	\$765,000	\$247,319	\$1,012,319
8	1	2031	\$0	\$233,740	\$233,740
		<b>2031 Total</b>	\$765,000	\$481,059	\$1,246,059
2	1	2032	\$795,000	\$233,740	\$1,028,740
8	1	2032	\$0	\$219,231	\$219,231
		<b>2032 Total</b>	\$795,000	\$452,971	\$1,247,971
2	1	2033	\$820,000	\$219,231	\$1,039,231
8	1	2033	\$0	\$203,856	\$203,856
		<b>2033 Total</b>	\$820,000	\$423,087	\$1,243,087
2	1	2034	\$855,000	\$203,856	\$1,058,856
8	1	2034	\$0	\$187,611	\$187,611
		<b>2034 Total</b>	\$855,000	\$391,467	\$1,246,467

Series 2018					
Effective June 30, 2018					
Projected Schedule for Conversion of BAN 2017					
Payment Date					
Month	Day	Year	Principal	Interest	Total
2	1	2035	\$890,000	\$187,611	\$1,077,611
8	1	2035	\$0	\$170,479	\$170,479
		<b>2035 Total</b>	\$890,000	\$358,090	\$1,248,090
2	1	2036	\$925,000	\$170,479	\$1,095,479
8	1	2036	\$0	\$152,441	\$152,441
		<b>2036 Total</b>	\$925,000	\$322,920	\$1,247,920
2	1	2037	\$960,000	\$152,441	\$1,112,441
8	1	2037	\$0	\$133,721	\$133,721
		<b>2037 Total</b>	\$960,000	\$286,162	\$1,246,162
2	1	2038	\$1,000,000	\$133,721	\$1,133,721
8	1	2038	\$0	\$114,221	\$114,221
		<b>2038 Total</b>	\$1,000,000	\$247,942	\$1,247,942
2	1	2039	\$1,040,000	\$114,221	\$1,154,221
8	1	2039	\$0	\$93,681	\$93,681
		<b>2039 Total</b>	\$1,040,000	\$207,902	\$1,247,902
2	1	2040	\$1,080,000	\$93,681	\$1,173,681
8	1	2040	\$0	\$72,081	\$72,081
		<b>2040 Total</b>	\$1,080,000	\$165,762	\$1,245,762
2	1	2041	\$1,125,000	\$72,081	\$1,197,081
8	1	2041	\$0	\$49,300	\$49,300
		<b>2041 Total</b>	\$1,125,000	\$121,381	\$1,246,381
2	1	2042	\$1,170,000	\$49,300	\$1,219,300
8	1	2042	\$0	\$25,315	\$25,315
		<b>2042 Total</b>	\$1,170,000	\$74,615	\$1,244,615
2	1	2043	\$1,220,000	\$25,315	\$1,245,315
8	1	2043	\$0.00	\$0.00	\$0.00
		<b>2043 Total</b>	\$1,220,000.00	\$25,315.00	\$1,245,315.00
		<b>Grand Total</b>	\$19,600,000.00	\$9,971,464.00	\$29,571,464.00

KIA F-08-07 Various					
Effective June 30, 2018					
Payment Date			Principal	Interest	Total
Month	Day	Year	Principal	Interest	Total
6	1	2018	\$0	\$0	\$0
12	1	2018	\$95,691	\$18,615	\$114,306
		<b>2018 Total</b>	\$95,691	\$18,615	\$114,306
6	1	2019	\$96,169	\$18,016	\$114,185
12	1	2019	\$96,650	\$17,415	\$114,065
		<b>2019 Total</b>	\$192,819	\$35,431	\$228,250
6	1	2020	\$97,133	\$16,811	\$113,944
12	1	2020	\$97,619	\$16,204	\$113,823
		<b>2020 Total</b>	\$194,752	\$33,015	\$227,767
6	1	2021	\$98,107	\$15,594	\$113,701
12	1	2021	\$98,597	\$14,981	\$113,578
		<b>2021 Total</b>	\$196,704	\$30,575	\$227,279
6	1	2022	\$99,090	\$14,365	\$113,455
12	1	2022	\$99,586	\$13,745	\$113,331
		<b>2022 Total</b>	\$198,676	\$28,110	\$226,786
6	1	2023	\$100,084	\$13,123	\$113,207
12	1	2023	\$100,584	\$12,497	\$113,081
		<b>2023 Total</b>	\$200,668	\$25,620	\$226,288
6	1	2024	\$101,087	\$11,869	\$112,956
12	1	2024	\$101,593	\$11,237	\$112,830
		<b>2024 Total</b>	\$202,680	\$23,106	\$225,786
6	1	2025	\$102,100	\$10,602	\$112,702
12	1	2025	\$102,611	\$9,964	\$112,575
		<b>2025 Total</b>	\$204,711	\$20,566	\$225,277
6	1	2026	\$103,124	\$9,323	\$112,447
12	1	2026	\$103,640	\$8,678	\$112,318
		<b>2026 Total</b>	\$206,764	\$18,001	\$224,765
6	1	2027	\$104,158	\$8,030	\$112,188
12	1	2027	\$104,679	\$7,379	\$112,058
		<b>2027 Total</b>	\$208,837	\$15,409	\$224,246
6	1	2028	\$105,202	\$6,725	\$111,927
12	1	2028	\$105,728	\$6,068	\$111,796
		<b>2028 Total</b>	\$210,930	\$12,793	\$223,723
6	1	2029	\$106,257	\$5,406	\$111,663
12	1	2029	\$106,788	\$4,743	\$111,531
		<b>2029 Total</b>	\$213,045	\$10,149	\$223,194
6	1	2030	\$107,322	\$4,075	\$111,397
12	1	2030	\$107,859	\$3,405	\$111,264
		<b>2030 Total</b>	\$215,181	\$7,480	\$222,661
6	1	2031	\$108,398	\$2,730	\$111,128
12	1	2031	\$108,940	\$2,053	\$110,993
		<b>2031 Total</b>	\$217,338	\$4,783	\$222,121
6	1	2032	\$109,484	\$1,372	\$110,856
12	1	2032	\$110,032	\$688	\$110,720
		<b>2032 Total</b>	\$219,516	\$2,060	\$221,576
		<b>Grand Total</b>	\$2,978,312	\$285,713	\$3,264,025

KIA F-09-02 GAC					
Effective June 30, 2018					
Payment Date					
Month	Day	Year	Principal	Interest	Total
6	1	2018	\$0	\$0	\$0
12	1	2018	\$542,297	\$212,217	\$754,514
		<b>2018 Total</b>	\$542,297	\$212,217	\$754,514
6	1	2019	\$547,720	\$206,116	\$753,836
12	1	2019	\$553,197	\$199,954	\$753,151
		<b>2019 Total</b>	\$1,100,917	\$406,071	\$1,506,988
6	1	2020	\$558,729	\$193,731	\$752,460
12	1	2020	\$564,316	\$187,445	\$751,761
		<b>2020 Total</b>	\$1,123,045	\$381,176	\$1,504,221
6	1	2021	\$569,960	\$181,097	\$751,057
12	1	2021	\$575,659	\$174,685	\$750,344
		<b>2021 Total</b>	\$1,145,619	\$355,782	\$1,501,401
6	1	2022	\$581,416	\$168,208	\$749,624
12	1	2022	\$587,230	\$161,668	\$748,898
		<b>2022 Total</b>	\$1,168,646	\$329,876	\$1,498,522
6	1	2023	\$593,102	\$155,061	\$748,163
12	1	2023	\$599,033	\$148,389	\$747,422
		<b>2023 Total</b>	\$1,192,135	\$303,450	\$1,495,585
6	1	2024	\$605,024	\$141,650	\$746,674
12	1	2024	\$611,074	\$134,843	\$745,917
		<b>2024 Total</b>	\$1,216,098	\$276,493	\$1,492,591
6	1	2025	\$617,185	\$127,969	\$745,154
12	1	2025	\$623,356	\$121,025	\$744,381
		<b>2025 Total</b>	\$1,240,541	\$248,994	\$1,489,535
6	1	2026	\$629,590	\$114,012	\$743,602
12	1	2026	\$635,886	\$106,930	\$742,816
		<b>2026 Total</b>	\$1,265,476	\$220,942	\$1,486,418
6	1	2027	\$642,245	\$99,776	\$742,021
12	1	2027	\$648,667	\$92,551	\$741,218
		<b>2027 Total</b>	\$1,290,912	\$192,327	\$1,483,239
6	1	2028	\$655,154	\$85,253	\$740,407
12	1	2028	\$661,705	\$77,883	\$739,588
		<b>2028 Total</b>	\$1,316,859	\$163,136	\$1,479,995
6	1	2029	\$668,322	\$70,438	\$738,760
12	1	2029	\$675,006	\$62,920	\$737,926
		<b>2029 Total</b>	\$1,343,328	\$133,358	\$1,476,686
6	1	2030	\$681,756	\$55,326	\$737,082
12	1	2030	\$688,573	\$47,656	\$736,229
		<b>2030 Total</b>	\$1,370,329	\$102,982	\$1,473,311
6	1	2031	\$695,459	\$39,910	\$735,369
12	1	2031	\$702,414	\$32,086	\$734,500
		<b>2031 Total</b>	\$1,397,873	\$71,996	\$1,469,869
6	1	2032	\$709,438	\$24,184	\$733,622
12	1	2032	\$716,532	\$16,203	\$732,735
		<b>2032 Total</b>	\$1,425,970	\$40,387	\$1,466,357
6	1	2033	\$723,695	\$8,141	\$731,836
		<b>2033 Total</b>	\$723,695	\$8,141	\$731,836
		<b>Grand Total</b>	\$18,863,740	\$3,447,328	\$22,311,068

KIA F-14-015					
Effective June 30, 2018					
Estimated per KIA until Final Loan Closeout					
Payment Date					
Month	Day	Year	Principal	Interest	Total
6	1	2019	68,989.91	32,871.43	101,861.34
12	1	2019	69,593.57	32,181.53	101,775.10
		<b>2019 Total</b>	138,583.48	65,052.96	203,636.44
6	1	2020	70,202.51	31,485.60	101,688.11
12	1	2020	70,816.78	30,783.58	101,600.36
		<b>2020 Total</b>	141,019.29	62,269.18	203,288.47
6	1	2021	71,436.43	30,075.41	101,511.84
12	1	2021	89,557.31	36,489.61	126,046.92
		<b>2021 Total</b>	160,993.74	66,565.02	227,558.76
6	1	2022	90,340.94	35,594.03	125,934.97
12	1	2022	91,131.42	34,690.63	125,822.05
		<b>2022 Total</b>	181,472.36	70,284.66	251,757.02
6	1	2023	91,928.82	33,779.31	125,708.13
12	1	2023	92,733.20	32,860.02	125,593.22
		<b>2023 Total</b>	184,662.02	66,639.33	251,301.35
6	1	2024	93,544.62	31,932.69	125,477.31
12	1	2024	94,363.13	30,997.25	125,360.38
		<b>2024 Total</b>	187,907.75	62,929.94	250,837.69
6	1	2025	95,188.81	30,053.61	125,242.42
12	1	2025	96,021.71	29,101.73	125,123.44
		<b>2025 Total</b>	191,210.52	59,155.34	250,365.86
6	1	2026	96,861.90	28,141.51	125,003.41
12	1	2026	97,709.44	27,172.89	124,882.33
		<b>2026 Total</b>	194,571.34	55,314.40	249,885.74
6	1	2027	98,564.40	26,195.79	124,760.19
12	1	2027	99,426.84	25,210.15	124,636.99
		<b>2027 Total</b>	197,991.24	51,405.94	249,397.18
6	1	2028	100,296.82	24,215.89	124,512.71
12	1	2028	101,174.42	23,212.91	124,387.33
		<b>2028 Total</b>	201,471.24	47,428.80	248,900.04
6	1	2029	102,059.69	22,201.18	124,260.87
12	1	2029	102,952.71	21,180.58	124,133.29
		<b>2029 Total</b>	205,012.40	43,381.76	248,394.16
6	1	2030	103,853.55	20,151.05	124,004.60
12	1	2030	104,762.28	19,112.50	123,874.78
		<b>2030 Total</b>	208,615.83	39,263.55	247,879.38
6	1	2031	105,678.95	18,064.88	123,743.83
12	1	2031	106,603.63	17,008.10	123,611.73
		<b>2031 Total</b>	212,282.58	35,072.98	247,355.56
6	1	2032	107,536.42	15,942.06	123,478.48
12	1	2032	108,477.36	14,866.70	123,344.06
		<b>2032 Total</b>	216,013.78	30,808.76	246,822.54
6	1	2033	109,426.54	13,781.92	123,208.46
12	1	2033	110,384.01	12,687.67	123,071.68
		<b>2033 Total</b>	219,810.55	26,469.59	246,280.14
6	1	2034	111,349.88	11,583.82	122,933.70
12	1	2034	112,324.19	10,470.32	122,794.51
		<b>2034 Total</b>	223,674.07	22,054.14	245,728.21

<b>KIA F-14-015</b>					
<b>Effective June 30, 2018</b>					
<b>Estimated per KIA until Final Loan Closeout</b>					
<b>Payment Date</b>					
<b>Month</b>	<b>Day</b>	<b>Year</b>	<b>Principal</b>	<b>Interest</b>	<b>Total</b>
6	1	2035	113,307.03	9,347.07	122,654.10
12	1	2035	114,298.47	8,214.00	122,512.47
		<b>2035 Total</b>	227,605.50	17,561.07	245,166.57
6	1	2036	115,298.58	7,071.02	122,369.60
12	1	2036	116,307.44	5,918.03	122,225.47
		<b>2036 Total</b>	231,606.02	12,989.05	244,595.07
6	1	2037	117,325.13	4,754.96	122,080.09
12	1	2037	118,351.73	3,581.70	121,933.43
		<b>2037 Total</b>	235,676.86	8,336.66	244,013.52
6	1	2038	119,387.31	2,398.18	121,785.49
12	1	2038	120,432.12	1,204.31	121,636.43
		<b>2038 Total</b>	239,819.43	3,602.49	243,421.92
		<b>Grand Total</b>	4,000,000.00	846,585.62	4,846,585.62

KIA F-15-011					
Effective June 30, 2018					
Estimated per KIA until Final Loan Closeout					
Payment Date					
Month	Day	Year	Principal	Interest	Total
12	1	2018	74,193.85	35,350.94	109,544.79
		<b>2018 Total</b>	74,193.85	35,350.94	109,544.79
6	1	2019	74,843.04	34,609.01	109,452.05
12	1	2019	85,863.79	38,509.63	124,373.42
		<b>2019 Total</b>	160,706.83	73,118.64	233,825.47
6	1	2020	86,615.10	37,650.99	124,266.09
12	1	2020	87,372.98	36,784.85	124,157.83
		<b>2020 Total</b>	173,988.08	74,435.84	248,423.92
6	1	2021	88,137.49	35,911.12	124,048.61
12	1	2021	88,908.70	35,029.74	123,938.44
		<b>2021 Total</b>	177,046.19	70,940.86	247,987.05
6	1	2022	89,686.66	34,140.64	123,827.30
12	1	2022	90,471.41	33,243.78	123,715.19
		<b>2022 Total</b>	180,158.07	67,384.42	247,542.49
6	1	2023	91,263.03	32,339.07	123,602.10
12	1	2023	92,061.59	31,426.43	123,488.02
		<b>2023 Total</b>	183,324.62	63,765.50	247,090.12
6	1	2024	92,867.13	30,505.82	123,372.95
12	1	2024	93,679.72	29,577.14	123,256.86
		<b>2024 Total</b>	186,546.85	60,082.96	246,629.81
6	1	2025	94,499.41	28,640.35	123,139.76
12	1	2025	95,326.28	27,695.36	123,021.64
		<b>2025 Total</b>	189,825.69	56,335.71	246,161.40
6	1	2026	96,160.38	26,742.10	122,902.48
12	1	2026	97,001.79	25,780.49	122,782.28
		<b>2026 Total</b>	193,162.17	52,522.59	245,684.76
6	1	2027	97,850.55	24,810.48	122,661.03
12	1	2027	98,706.74	23,831.98	122,538.72
		<b>2027 Total</b>	196,557.29	48,642.46	245,199.75
6	1	2028	99,570.43	22,844.90	122,415.33
12	1	2028	100,441.67	21,849.20	122,290.87
		<b>2028 Total</b>	200,012.10	44,694.10	244,706.20
6	1	2029	101,320.53	20,844.79	122,165.32
12	1	2029	102,207.09	19,831.58	122,038.67
		<b>2029 Total</b>	203,527.62	40,676.37	244,203.99
6	1	2030	103,101.41	18,809.50	121,910.91
12	1	2030	104,003.54	17,778.49	121,782.03
		<b>2030 Total</b>	207,104.95	36,587.99	243,692.94
6	1	2031	104,913.57	16,738.46	121,652.03
12	1	2031	105,831.56	15,689.32	121,520.88
		<b>2031 Total</b>	210,745.13	32,427.78	243,172.91
6	1	2032	106,757.59	14,631.01	121,388.60
12	1	2032	107,691.72	13,563.43	121,255.15
		<b>2032 Total</b>	214,449.31	28,194.44	242,643.75
6	1	2033	108,634.02	12,486.51	121,120.53
12	1	2033	109,584.57	11,400.17	120,984.74
		<b>2033 Total</b>	218,218.59	23,886.68	242,105.27
6	1	2034	110,543.43	10,304.33	120,847.76

KIA F-15-011					
Effective June 30, 2018					
Estimated per KIA until Final Loan Closeout					
Payment Date					
Month	Day	Year	Principal	Interest	Total
12	1	2034	111,510.69	9,198.89	120,709.58
		<b>2034 Total</b>	222,054.12	19,503.22	241,557.34
6	1	2035	112,486.41	8,083.78	120,570.19
12	1	2035	113,470.66	6,958.92	120,429.58
		<b>2035 Total</b>	225,957.07	15,042.70	240,999.77
6	1	2036	114,463.53	5,824.22	120,287.75
12	1	2036	115,465.09	4,679.58	120,144.67
		<b>2036 Total</b>	229,928.62	10,503.80	240,432.42
6	1	2037	116,475.41	3,524.93	120,000.34
12	1	2037	117,494.57	2,360.17	119,854.74
		<b>2037 Total</b>	233,969.98	5,885.10	239,855.08
6	1	2038	118,522.87	1,185.19	119,708.06
		<b>2038 Total</b>	118,522.87	1,185.19	119,708.06
		<b>Grand Total</b>	4,000,000.00	861,167.29	4,861,167.29



KIA F-16-027					
Effective June 30, 2018					
Estimated per KIA until Final Loan Closeout					
Payment Date					
Month	Day	Year	Principal	Interest	Total
12	1	2021	83,951.21	40,000.00	123,951.21
		<b>2021 Total</b>	83,951.21	40,000.00	123,951.21
6	1	2022	84,685.78	39,160.49	123,846.27
12	1	2022	85,426.78	38,313.63	123,740.41
		<b>2022 Total</b>	170,112.56	77,474.12	247,586.68
6	1	2023	86,174.27	37,459.36	123,633.63
12	1	2023	86,928.29	36,597.62	123,525.91
		<b>2023 Total</b>	173,102.56	74,056.98	247,159.54
6	1	2024	87,688.92	35,728.33	123,417.25
12	1	2024	88,456.19	34,851.45	123,307.64
		<b>2024 Total</b>	176,145.11	70,579.78	246,724.89
6	1	2025	89,230.18	33,966.89	123,197.07
12	1	2025	90,010.95	33,074.58	123,085.53
		<b>2025 Total</b>	179,241.13	67,041.47	246,282.60
6	1	2026	90,798.54	32,174.48	122,973.02
12	1	2026	91,593.03	31,266.49	122,859.52
		<b>2026 Total</b>	182,391.57	63,440.97	245,832.54
6	1	2027	92,394.47	30,350.56	122,745.03
12	1	2027	93,202.92	29,426.62	122,629.54
		<b>2027 Total</b>	185,597.39	59,777.18	245,374.57
6	1	2028	94,018.45	28,494.58	122,513.03
12	1	2028	94,841.11	27,554.40	122,395.51
		<b>2028 Total</b>	188,859.56	56,048.98	244,908.54
6	1	2029	95,670.97	26,605.99	122,276.96
12	1	2029	96,508.09	25,649.28	122,157.37
		<b>2029 Total</b>	192,179.06	52,255.27	244,434.33
6	1	2030	97,352.54	24,684.19	122,036.73
12	1	2030	98,204.37	23,710.67	121,915.04
		<b>2030 Total</b>	195,556.91	48,394.86	243,951.77
6	1	2031	99,063.66	22,728.63	121,792.29
12	1	2031	99,930.47	21,737.99	121,668.46
		<b>2031 Total</b>	198,994.13	44,466.62	243,460.75
6	1	2032	100,804.86	20,738.69	121,543.55
12	1	2032	101,686.90	19,730.64	121,417.54
		<b>2032 Total</b>	202,491.76	40,469.33	242,961.09
6	1	2033	102,576.66	18,713.77	121,290.43
12	1	2033	103,474.21	17,688.00	121,162.21
		<b>2033 Total</b>	206,050.87	36,401.77	242,452.64
6	1	2034	104,379.61	16,653.26	121,032.87
12	1	2034	105,292.93	15,609.46	120,902.39
		<b>2034 Total</b>	209,672.54	32,262.72	241,935.26
6	1	2035	106,214.24	14,556.54	120,770.78
12	1	2035	107,143.61	13,494.40	120,638.01
		<b>2035 Total</b>	213,357.85	28,050.94	241,408.79
6	1	2036	108,081.12	12,422.96	120,504.08
12	1	2036	109,026.83	11,342.15	120,368.98
		<b>2036 Total</b>	217,107.95	23,765.11	240,873.06
6	1	2037	109,980.82	10,251.87	120,232.69

<b>KIA F-16-027</b>					
<b>Effective June 30, 2018</b>					
<b>Estimated per KIA until Final Loan Closeout</b>					
<b>Payment Date</b>					
<b>Month</b>	<b>Day</b>	<b>Year</b>	<b>Principal</b>	<b>Interest</b>	<b>Total</b>
12	1	2037	110,943.15	9,152.07	120,095.22
		<b>2037 Total</b>	220,923.97	19,403.94	240,327.91
6	1	2038	111,913.90	8,042.64	119,956.54
12	1	2038	112,893.15	6,923.50	119,816.65
		<b>2038 Total</b>	224,807.05	14,966.14	239,773.19
6	1	2039	113,880.96	5,794.57	119,675.53
12	1	2039	114,877.42	4,655.76	119,533.18
		<b>2039 Total</b>	228,758.38	10,450.33	239,208.71
6	1	2040	115,882.60	3,506.98	119,389.58
12	1	2040	116,896.57	2,348.16	119,244.73
		<b>2040 Total</b>	232,779.17	5,855.14	238,634.31
6	1	2041	117,919.27	1,179.21	119,098.48
		<b>2041 Total</b>	117,919.27	1,179.21	119,098.48
		<b>Grand Total</b>	4,000,000.00	866,340.86	4,866,340.86

KIA B15-003					
Effective June 30, 2018					
Payment Date					
Month	Day	Year	Principal	Interest	Total
6	1	2018	-	-	-
12	1	2018	32,482.03	6,448.53	38,930.56
		<b>2018 Total</b>	32,482.03	6,448.53	38,930.56
6	1	2019	32,603.83	6,312.26	38,916.09
12	1	2019	32,726.10	6,157.38	38,883.48
		<b>2019 Total</b>	65,329.93	12,469.64	77,799.57
6	1	2020	32,848.82	6,001.93	38,850.75
12	1	2020	32,972.01	5,845.89	38,817.90
		<b>2020 Total</b>	65,820.83	11,847.82	77,668.65
6	1	2021	33,095.64	5,689.29	38,784.93
12	1	2021	33,219.75	5,532.09	38,751.84
		<b>2021 Total</b>	66,315.39	11,221.38	77,536.77
6	1	2022	33,344.33	5,374.29	38,718.62
12	1	2022	33,469.38	5,215.90	38,685.28
		<b>2022 Total</b>	66,813.71	10,590.19	77,403.90
6	1	2023	33,594.88	5,056.92	38,651.80
12	1	2023	33,720.86	4,897.35	38,618.21
		<b>2023 Total</b>	67,315.74	9,954.27	77,270.01
6	1	2024	33,847.31	4,737.18	38,584.49
12	1	2024	33,974.24	4,576.40	38,550.64
		<b>2024 Total</b>	67,821.55	9,313.58	77,135.13
6	1	2025	34,101.65	4,415.02	38,516.67
12	1	2025	34,229.53	4,253.03	38,482.56
		<b>2025 Total</b>	68,331.18	8,668.05	76,999.23
6	1	2026	34,357.89	4,090.45	38,448.34
12	1	2026	34,486.74	3,927.24	38,413.98
		<b>2026 Total</b>	68,844.63	8,017.69	76,862.32
6	1	2027	34,616.05	3,763.45	38,379.50
12	1	2027	34,745.86	3,599.01	38,344.87
		<b>2027 Total</b>	69,361.91	7,362.46	76,724.37
6	1	2028	34,876.17	3,433.96	38,310.13
12	1	2028	35,006.95	3,268.30	38,275.25
		<b>2028 Total</b>	69,883.12	6,702.26	76,585.38
6	1	2029	35,138.23	3,102.02	38,240.25
12	1	2029	35,269.99	2,935.12	38,205.11
		<b>2029 Total</b>	70,408.22	6,037.14	76,445.36
6	1	2030	35,402.26	2,767.58	38,169.84
12	1	2030	35,535.01	2,599.43	38,134.44
		<b>2030 Total</b>	70,937.27	5,367.01	76,304.28
6	1	2031	35,668.27	2,430.63	38,098.90
12	1	2031	35,802.02	2,261.21	38,063.23
		<b>2031 Total</b>	71,470.29	4,691.84	76,162.13
6	1	2032	35,936.29	2,091.15	38,027.44
12	1	2032	36,071.04	1,920.45	37,991.49
		<b>2032 Total</b>	72,007.33	4,011.60	76,018.93
6	1	2033	36,206.31	1,749.11	37,955.42
12	1	2033	36,342.09	1,577.12	37,919.21
		<b>2033 Total</b>	72,548.40	3,326.23	75,874.63
6	1	2034	36,478.37	1,404.50	37,882.87

<b>KIA B15-003</b>					
<b>Effective June 30, 2018</b>					
<b>Payment Date</b>					
<b>Month</b>	<b>Day</b>	<b>Year</b>	<b>Principal</b>	<b>Interest</b>	<b>Total</b>
12	1	2034	36,615.16	1,231.24	37,846.40
		<b>2034 Total</b>	73,093.53	2,635.74	75,729.27
6	1	2035	36,752.47	1,057.32	37,809.79
12	1	2035	36,890.29	882.74	37,773.03
		<b>2035 Total</b>	73,642.76	1,940.06	75,582.82
6	1	2036	37,028.63	707.51	37,736.14
12	1	2036	37,167.48	531.63	37,699.11
		<b>2036 Total</b>	74,196.11	1,239.14	75,435.25
6	1	2037	37,306.86	355.09	37,661.95
12	1	2037	37,446.61	178.03	37,624.64
		<b>2037 Total</b>	74,753.47	533.12	75,286.59
		<b>Grand Total</b>	1,361,377.40	132,377.75	1,493,755.15

NORTHERN KENTUCKY  
WATER DISTRICT

*Project*

*24-inch Cross-Country Water Main*  
*Replacement Project,*  
*Edgewood/Crestview Hills,*  
*Kenton County, Kentucky*

184-0776

CURRENT BALANCE SHEET AND  
INCOME STATEMENT

**Northern Kentucky Water District**  
**Statement of Net Position**  
**June 30, 2018**

**Assets and Deferred Outflows of Resources**

**Current Assets**

Cash and Cash Equivalents	\$ 28,963,750
Investments	896,197
Accounts Receivable	
Customers, Net	4,845,767
Unbilled Customers	6,100,000
Other	253,630
Assessments Receivable	142,896
Inventory Supplies for New Installation and Maintenance, at Cost	1,631,339
Prepaid Items	509,505
Restricted Assets - Cash and Cash Equivalents	
Bond Proceeds Fund	-
Debt Service Account	3,156,156
Improvement, Repair & Replacement	-
Total Current Assets	<u>46,499,240</u>

**Noncurrent Assets**

Restricted Assets - Cash and Cash Equivalents	
Bond Proceeds Fund	16,822,313
Debt Service Account	10,579,890
Improvement, Repair & Replacement	5,274,498
Customer Deposits Fund	1,019,308
Restricted Assets - Investments	
Bond Proceeds Fund	-
Debt Service Reserve Account	18,746,722
Miscellaneous Deferred Charges	<u>3,862,892</u>
Capital assets	
Land, System, Buildings and Equipment	482,569,856
Construction in Progress	<u>20,470,452</u>
Total Capital Assets	503,040,308
Less Accumulated Depreciation	<u>156,979,996</u>
Total Capital Assets, Net of Accumulated Depreciation	<u>346,060,312</u>
Total Noncurrent Assets	<u>402,365,935</u>
Total Assets	<u>448,865,175</u>

**Deferred Outflows of Resources**

Deferred Outflows Related to Pension	5,586,334
Deferred Loss on Refundings	<u>4,588,218</u>
Total Deferred Outflows of Resources	<u>10,174,552</u>

<b>Total Assets and Deferred Outflows of Resources</b>	<b>\$ <u><u>459,039,727</u></u></b>
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**Northern Kentucky Water District**  
**Statement of Net Position**  
**June 30, 2018**

**Liabilities and Deferred Inflows of Resources**

**Current Liabilities**

Bond Indebtedness	\$ 11,813,757
Bond Anticipation Note	26,223,167
Notes Payable	3,260,548
Accounts Payable	909,987
Accrued Payroll & Taxes	158,336
Other Accrued Liabilities	262,394
Liabilities Payable - Restricted Assets	
Accrued Interest Payable	3,156,156
Accounts Payable	-
	<hr/>
Total Current Liabilities	45,784,345

**Long-Term Liabilities (Net of Current Portion)**

Liabilities Payable - Restricted Assets	
Accounts Payable	229,542
Customer Deposits	1,019,308
Compensated Absences	708,261
Arbitrage Liability	536,447
Bond Indebtedness	155,454,255
Bond Anticipation Notes Payable	-
Notes Payable	35,362,558
Net Pension Liability	18,765,118
	<hr/>
Total Long-Term Liabilities	212,075,489

Total Liabilities 257,859,834

**Deferred Inflows of Resources**

Deferred Inflows Related to Pension	2,292,472
	<hr/>
Total Liabilities and Deferred Inflows of Resources	260,152,306

**Net Position**

Net Investment in Capital Assets	118,534,245
Restricted For	
Debt Service Funds	29,326,612
Capital Improvement Projects	21,867,269
Unrestricted	29,159,295
	<hr/>
Total Net Position	198,887,421

**Total Liabilities, Deferred Inflows of Resources,  
and Net Position** \$ 459,039,727

**Northern Kentucky Water District  
Statement of Revenues, Expenses and Changes in Net Position**

	Jul-Dec 2017	Jan-Jun 2018	Total Test Year 6/30/2018
<b>Operating Revenues</b>			
Water Sales	27,698,944	25,258,937	52,957,881
Forfeited Discounts	415,360	424,676	840,036
Rents from Water Property	224,993	189,399	414,392
Other Water Revenues	193,360	194,515	387,875
	<u>28,532,657</u>	<u>26,067,527</u>	<u>54,600,184</u>
<b>Operating Expenses</b>			
Operating & Maintenance Expenses			
Salaries & Wages	3,882,652	3,931,152	7,813,804
Employee Pension & Benefits	2,293,543	2,369,958	4,663,501
Taxes Other than Income Taxes	296,871	286,063	582,934
Purchased Power	1,162,114	1,230,011	2,392,125
Chemicals	1,283,749	928,400	2,212,149
Materials & Supplies	982,990	1,069,956	2,052,946
Contractual Services	1,747,633	1,745,234	3,492,867
Transportation	264,156	257,087	521,243
Insurance	272,863	287,190	560,053
Bad Debt Expense	224,465	106,727	331,192
Miscellaneous	122,678	117,398	240,076
Regulatory Commission Assessment	64,054	64,054	128,108
	<u>12,597,768</u>	<u>12,393,230</u>	<u>24,990,998</u>
Depreciation Expense	5,841,455	5,905,678	11,747,133
	<u>18,439,223</u>	<u>18,298,908</u>	<u>36,738,131</u>
Net Operating Income	<u>10,093,434</u>	<u>7,768,619</u>	<u>17,862,053</u>
<b>Non-Operating Income (Expense)</b>			
Investment Income	543,831	681,640	1,225,471
Miscellaneous Non-Operating Income	303,896	240,485	544,381
Loss on Abandonment of Mains	(514,633)	(183,110)	(697,743)
Interest on Long Term Debt	(4,395,168)	(3,886,634)	(8,281,802)
Amortization of Debt Premiums and Bond Issuance Costs	516,153	525,303	1,041,456
Pension Expense	(1,948,542)	-	(1,948,542)
Arbitrage Expense	(111,934)	(51,318)	(163,252)
Gain on Sale of Capital Assets	24,224	-	24,224
	<u>(5,582,173)</u>	<u>(2,673,634)</u>	<u>(8,255,807)</u>
Change in Net Position Before Capital Contributions	4,511,261	5,094,985	9,606,246
<b>Capital Contributions</b>	<u>934,305</u>	<u>516,241</u>	<u>1,450,546</u>
Change in Net Position	5,445,566	5,611,226	11,056,792
<b>Net Position - July 1, 2017</b>			<u>187,830,629</u>
<b>Net Position - June 30, 2018</b>		\$	<u><u>198,887,421</u></u>