

PRELIMINARY ENGINEERING REPORT

SYSTEM IMPROVEMENTS PROJECT

**NEBO WATER DISTRICT
HOPKINS COUNTY, KENTUCKY**



Revised November 2022

Prepared By:



**3 HMB CIRCLE
FRANKFORT, KENTUCKY
502-695-9800
502-695-9810-FAX**

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I. INTRODUCTION

This Preliminary Engineering Report will examine Nebo Water District's proposed System Improvements Project. Nebo Water District (NWD) has determined that several issues need to be addressed in the short term in order to keep their system reliable, functional and efficient. Therefore, NWD is currently pursuing funding to upgrade the Supervisory Control and Data Acquisition (SCADA) System, implement an Automatic Meter Reading (AMR) System and replace its Main Pump Station. The scope of the work is either beyond the capabilities of the District's personnel to complete internally or large enough in scope that the District's personnel would not be able to complete the work in a reasonable time while continuing to maintain and operate the distribution system. It is estimated that the proposed project will have a construction cost of \$1,285,000 and a project cost of \$1,542,000.

II. DESCRIPTION OF WATER DISTRICT

The NWD was formed in 1965 to provide safe and reliable potable water to the residents of rural Hopkins County. The Board of Commissioners is made up of 3 members. Each of the commissioners is nominated by the Judge Executive of Hopkins County and must be approved by the Fiscal Court. These Commissioners transact and administer all business of the District at its office located at 45 N Bernard Street, Nebo, Kentucky. The day-to-day work is handled by the Office Manager, System Manager and staff.

III. EXISTING WATER SYSTEM

NWD provides reliable safe potable water service to approximately 1,600 customers of rural Hopkins County. The water system is comprised of approximately 106 miles of water line ranging in size from 2-inch to 10-inch, 3 booster pump stations and three (3) water storage tanks with a combined capacity of 500,000 gallons. NWD purchases majority of its water from the City of Madisonville through a master meter located along Nebo Road (Alt 41). The District is required by contract to purchase one (1) million gallons per month and has a not to exceed amount of eighteen (18) million gallons per month. The average monthly purchased in 2021 was approximately eight million four-hundred thousand (8.4 MG) gallons per month. The District is currently purchasing water from Madisonville at a rate of \$4.52/1,000 gallons. The District also purchases approximately 49,000 gallons per month from Webster County Water District at a rate of \$3.70/1,000 gallons.

IV. NEED FOR PROJECT

A. SCADA System Improvements

The existing SCADA system has served NWD well for many years but has reached the end of its useful life. The system has become outdated, and it has become difficult to acquire replacement parts to keep the system operating when components fail. Additionally, not all the components are monitored by the existing SCADA system.

The proposed SCADA improvements will include the installation of new systems

at the three (3) tanks and three (3) pump stations as well as upgrades to the existing system at the NWD offices. The new system will provide better information on the operation of the system and will allow for remote monitoring, control and alarms using a smartphone.

B. AMR System/Meter Replacement

NWD's entire distribution system is maintained by four (4) full time employees and one (1) part time employee. These employees are also required to manually read all 1,600 water meters monthly. This task typically takes approximately four (4) days. With the installation of an automated meter reading (AMR) system, all water meters could be read in one day by one employee freeing up more time to complete other system requirements. An AMR system is also helpful in identifying water leaks on the customer side of the meter.

Additionally, most of the existing water meters have reached the end of their useful life. As a water meter ages, it typically runs slower causing it to not record all the water flowing through it. Replacing the existing meters could improve the Districts revenue and decrease the overall water loss rate.

C. Main Pump Station Replacement

The Main Pump Station is located along Alt 41 near Calumet Lane (See Appendix A – Project Map). It is used to pump a majority of the water purchased from Madisonville into the District distribution system. In addition to housing the pumps, the building has a chemical room for the storage and application of chemicals into the distribution system. Like the other components of the system previously mentioned, the metal building covering the main pump station has reached the end of its useful life. Years of exposure to Cl and other chemicals have caused the metal building to rust and decay beyond the point of repair, as can be seen in the picture below.



The District proposes to replace the existing pump station with a prefabricated pump station equipped with chlorine feed and chemical resistant coating to provide better protection. The pump station will also utilize VFD controls for a more energy efficient system. Because there is not sufficient room on the site of the existing pump station, the new pump station will be located on a vacant lot along US 41 with a coordinate of 37°21'34.75" N, 87°33'31.32" W.

V THE PROPOSED PROJECT

To address the identified issues, NWD proposes the following:

- Replace the existing SCADA system with a new SCADA system including the installation of new systems at the three (3) tanks and three (3) pump stations as well as upgrades to the existing system at the NWD offices.
- Replace 1600 existing water meters with new meters including AMR compatible registers. The District also proposes to acquire the necessary components and training to place a drive by meter reading system in service.
- Replace the existing pump station with a prefabricated pump station with chlorine feed and equipment and VFD drives. The new pump station will be located along US 41 approximately 500 feet east of the existing pump station.

VI COST SUMMARY

The estimated construction cost for the System Improvements Project is \$1,285,000 and is summarized in Table 1. The estimated project cost is \$1,542,000 and is summarized in Table 2.

TABLE 1 - OPINION OF PROBABLE COST



**Nebo Water District
AMR-SCADA Project**

**Opinion of Probable Cost
February 8, 2022**

Contract 1 - SCADA System Improvements

	Qty.	Unit	Unit Cost	Total Cost
SCADA System (Rick's Electric)	1	LS	\$60,000	\$60,000
			Subtotal	\$60,000

Contract 2 - AMR/Meter Replacement

	Qty.	Unit	Unit Cost	Total Cost
5/8 x 3/4" Meter and Register*	1615	EA	\$235	\$379,525
1" Meter and Register	18	EA	\$300	\$5,400
1-1/2" Meter and Register	2	EA	\$675	\$1,350
2" Meter & Register	6	EA	\$950	\$5,700
Retrofit Registers for 2" and 4" meters	5	EA	\$250	\$1,250
Meter Installation	1600	EA	\$100	\$160,000
Register Retrofit Installation	5	EA	\$50	\$250
Drive By System Components	2	EA	\$15,000	\$30,000
Mobile Radio	1	EA	\$2,500	\$2,500
Misc Customer Service Repairs	1	LS	\$30,000	\$30,000
System Training	1	EA	\$8,500	\$8,500
			Subtotal	\$624,475
			USE	\$625,000

* 41 Meters will be shelf stock for future installations.

Contract 3 - Replace Main Pump Station

	Qty.	Unit	Unit Cost	Total Cost
Replace existing pump station, including chlorine feed equip., fence, site work, etc.	1	LS	\$450,000	\$450,000
Relocate existing generator, including conc. pad and electrical	1	LS	\$30,000	\$30,000
			Subtotal	\$480,000

Total Construction Cost

Contract 1 - SCADA System Improvements				\$60,000
Contract 2 - AMR/Meter Replacement				\$625,000
Contract 3 - Main PS Improvements				\$480,000
			Subtotal	\$1,165,000
			Construction Contingency (10%)	\$116,500
			Total Construction Cost	\$1,281,500
			USE	\$1,285,000

TABLE 2 - OPINION OF PROBABLE PROJECT COST



AMR-SCADA Project

Opinion of Probable Cost

February 8, 2022

PROJECT COST SUMMARY

Construction	\$1,285,000
Legal	\$17,500
Engineering - Preliminary	\$10,000
Engineering - Design	\$72,000
Engineering - Advertising and Bidding	\$10,000
Engineering During Construction	\$20,000
Resident Observation (Contract 3 Only, 60 Days Max)**	\$35,000
KYPIPE Model	\$40,000
Environmental (Cat Ex)	\$10,000
PSC Prep	\$2,000
AIS Monitoring Cost (Hourly)	\$5,000
Land & Rights	\$10,000
Interest During Construction	\$15,000
Misc Services (Hourly)	\$10,000
Subtotal	\$256,500
Total Project Cost	\$1,541,500
USE	<u>\$1,542,000</u>

** Resident Observation does not include AMR or SCADA System Contracts.

VII FUNDING

Proposed funding for this project is being made available by the following:

**TABLE 3
PROPOSED FUNDING**

RUS Grant	\$0
RUS Loan ⁽¹⁾	\$1,542,000
TOTAL PROJECT FUNDING	\$1,542,000

(1) 1.75% loan for 40 years with principal deferred for 2 years.

VIII FINANCIAL

As part of the Preliminary Engineering Report, NWD's finances were evaluated in the Summary Addendum (See Appendix B). It was determined that a rate increase is needed to meet future O&M costs, short-lived assets and debt repayment required for this Project. Table 4 below shows the Proposed Rates.

TABLE 4				
Proposed Water Rates				
For				
Nebo Water District				
Water Meter Size		5/8"x3/4"		
First	2,000	Gallons @	\$28.40	Min.
Next	2,000	Gallons @	\$10.50	per 1,000 Gallons
Next	6,000	Gallons @	\$10.00	per 1,000 Gallons
Next	10,000	Gallons @	\$9.51	per 1,000 Gallons
All Over	20,000	Gallons @	\$9.01	per 1,000 Gallons
Water Meter Size		1"		
First	4,000	Gallons @	\$49.40	Min.
Next	6,000	Gallons @	\$10.00	per 1,000 Gallons
Next	10,000	Gallons @	\$9.51	per 1,000 Gallons
All Over	20,000	Gallons @	\$9.01	per 1,000 Gallons
Water Meter Size		1-1/2"		
First	10,000	Gallons @	\$109.40	Min.
Next	10,000	Gallons @	\$9.51	per 1,000 Gallons
All Over	20,000	Gallons @	\$9.01	per 1,000 Gallons
Water Meter Size		2"		
First	20,000	Gallons @	\$204.50	Min.
All Over	20,000	Gallons @	\$9.01	per 1,000 Gallons
Water Meter Size		3"		
First	30,000	Gallons @	\$294.60	Min.
All Over	30,000	Gallons @	\$9.01	per 1,000 Gallons
Water Meter Size		4"		
First	50,000	Gallons @	\$474.80	Min.
All Over	50,000	Gallons @	\$9.01	per 1,000 Gallons

IX RECOMMENDATIONS

It is recommended that the project be funded by Rural Development and a Letter of Conditions be issued as soon as possible.

X REMAINING FUNDS

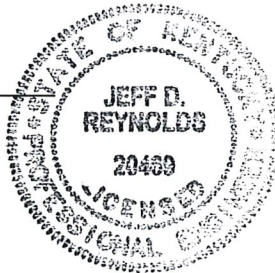
NWD proposes to use any remaining funds to make improvements within the system. These improvements will be either bid as alternates or added as a change order to the contractor. These improvements include the following:

- Purchase additional AMR meters and equipment
- Purchase spare pumps
- Install Flush/Fire Hydrants
- Install Zone Meters
- Install leak detection meters
- Repaint water storage tank
- Purchase spare parts

Prepared By:

HMB Professional Engineers, Inc.


Jeff Reynolds, P.E.
Project Engineer



Appendix A

Project Map




US 41

CALUMET LANE

EXIST. MAIN
PUMP STATION

PROP. PUMP STATION
N 37°21'35"
W 87°33'31"

WATER LINE IMPROVEMENTS PROJECT NEBO WATER DISTRICT	
	SCALE : 1" = 200'
	DATE : NOV. 2022
	DRAWN BY : KJD
	CHECKED BY : JDR

Appendix B

Summary Addendum

SUMMARY ADDENDUM

TO

PRELIMINARY ENGINEERING REPORT

DATED 2/8/2022

FOR

Nebo Water District - System Improvements Project
(Name of Project)

APPLICANT CONTACT PERSON Mark Matheny

APPLICANT PHONE NUMBER 270-249-3709

APPLICANT TAX IDENTIFICATION NUMBER (TIN) _____

ITEMS IN BOLD ITALIC PRINT ARE APPLICABLE TO SEWER SYSTEMS.

In order to avoid unnecessary delays in application processing, the applicant and its consulting engineer should prepare a summary of the preliminary report in accordance with

Please complete the applicable sections of the Summary Addendum. ***Please note, if water and sewer revenue will both be taken as security for the loan, all user information and characteristics of both utility systems will be needed even though the project will***

Feasibility review and grant determinations may be processed more accurately and more rapidly if the summary/Addendum is submitted simultaneously with the preliminary engineering report, or as soon thereafter as possible.

I. GENERAL

Proposed Project: provide a brief description of the proposed project. In addition to this summary, the applicant/engineer should submit a project map of the service area.

A.

The proposed project consists of a new SCADA system, an AMR meter reading system and replacing the main pump station.

II. FACILITY CHARACTERISTICS OF EXISTING SEWER SYSTEM

N/A

A. **Sewage Treatment:**

1. **Type** _____

2. **Method of Sludge Disposal** _____

3. **Cost per 1,000 gallons if sewage treatment is contracted:**
\$ _____

4. **Date Constructed** _____

B. **Treatment Capacity of Sewage Treatment Plant** _____

C. **Type of Sewage Collector System (Describe)** _____

D. **Number and Capacity of Sewage Lift Stations** _____

E. Sewage Collection System:

Lineal Feet of Collector Lines, by size 6" _____ 8" _____

10" _____ 12" _____, Larger _____

Date(s) Constructed _____

F.

Conditions of Existing System: Briefly describe the conditions and suitability for continued use of facility now owned by the applicant. Include any major renovation that will be needed within five to ten years.

III. FACILITY CHARACTERISTICS OF EXISTING WATER SYSTEM

A. Water Source: Describe adequacy of source (quality and quantity). Include an explanation of raw water source, raw water intake structure, treatment plant capacity, and current level of production (WTP). Also describe the adequacy of Water Purchase Contract if applicable.

Nebo purchases water from the City of Madisonville and Webster County Water District

If the applicant purchases water:

Seller(s):

- 1. City of Madisonville
- 2. Webster County Water District
- 3. _____

Price/1,000 gallons:

- 1. \$4.52
- 2. \$3.70
- 3. _____

Present Estimated Market Value of Existing System \$ _____

B. Water Storage:

Type: Ground Storage Tank _____ Elevated Tank _____ 2

Standpipe _____ 1 _____ Other _____
Number of Storage Structures _____ 3 _____
Total Storage Volume Capacity _____ 500k _____
Date Storage Tank(s) Constructed _____ 1979, 1979, 2010 _____

C. Water Distribution System: (Information below from WRIS Portal)

Pipe Material PVC
Lineal Feet of Pipe: 2"-3" Diameter _____ 116,940 _____ 4" _____ 209,663
6" _____ 130,871 _____ 8" _____ 70,340
10" _____ 4,089 _____ 12" _____
Date(s) Wter Lines Constructed _____ 1980 to present _____
Number and Capacity of Pump Station(s) _____ 5 _____

D. Condition of Existing Water System:

Briefly describe the condition and suitability for continued use of facility now owned by the applicant. Include any major renovation that will be needed within five to ten years.

Nebo's water system is in fairly good shape and no major renovations outside
of this project are anticipated at this time.

E. Percentage of Water Loss Existing System _____ 14.6 _____

IV. EXISTING LONG-TERM INDEBTEDNESS

A. List of Bonds and Notes: (From 2020 Audit)

<u>Date of Issue</u>	<u>Bond/Note Holder</u>	<u>Principal Balance</u>	<u>Payment Date</u>	<u>Bond Type Water/Sewer*</u>	<u>Amount on Deposit in Reserve Account</u>
20 <u>03</u> Issue	<u>KIA</u>	<u>63,870</u>	<u> </u>	<u>100 % </u> %	<u> </u>
20 <u>07</u> Issue	<u>KRWA</u>	<u>29,000</u>	<u> </u>	<u>100 % </u> %	<u> </u>
19 <u> </u> Issue	<u> </u>	<u>\$ </u>	<u> </u>	<u> % </u> %	<u> </u>
19 <u> </u> Issue	<u> </u>	<u>\$ </u>	<u> </u>	<u> % </u> %	<u> </u>
19 <u> </u> Issue	<u> </u>	<u>\$ </u>	<u> </u>	<u> % </u> %	<u> </u>

* If a combined issue, show attributable portion to each system.

B. Principal and Interest Payments: (Begin with Next Fiscal Year Payment)

<u>Date of Issue</u>	<u>Bond/Note Holder</u>	<u>Payment Year 20 21</u>		<u>Payment Year 20 22</u>		<u>Payment Year 20 23</u>	
		<u>Principal Payment</u>	<u>Interest Payment</u>	<u>Principal Payment</u>	<u>Interest Payment</u>	<u>Principal Payment</u>	<u>Interest Payment</u>
20 <u>03</u> Issue	<u>KIA</u>	<u>4,348</u>	<u>1,256</u>	<u>4,435</u>	<u>1,169</u>	<u>4,525</u>	<u>1,079</u>
20 <u>07</u> Issue	<u>KRWA</u>	<u>14,000</u>	<u>891</u>	<u>15,000</u>	<u>304</u>	<u>0</u>	<u>0</u>
19 <u> </u> Issue	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
19 <u> </u> Issue	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
19 <u> </u> Issue	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

V. EXISTING SHORT-TERM INDEBTEDNESS

A. List of All Short Term Debts: (Do Not Show Any Debt Listed in Paragraph IV Above)

<u>Lender or Lessor</u>	<u>Date of Issue (Month & Year)</u>	<u>Principal Balance</u>	<u>Purpose (Water and/ or Sewer)</u>	<u>Payment Date</u>	<u>Principal & Interest Payment (P&I)</u>	<u>Date to Be Paid In Full</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

VI. LAND AND RIGHTS - EXISTING SYSTEMS(S)

Number of Treatment Plant Sites: Water _____ **Sewer** _____

Number of Storage Tank Sites: Water _____ **3** **Sewer** _____

Number of Pump Stations: Water _____ **5** **Sewer** _____

Total Acreage: Water _____ **<3** **Acres** **Sewer** _____ **Acres**

Purchase Price: Water _____ **Unknown** **Sewer** _____

VII. NUMBER OF EXISTING USERS

	Water	Sewer
Residential (In Town)*	_____ 1569 _____	_____
Residential (Out of Town)*	_____	_____
Non-Residential (In Town)	_____ 30 _____	_____
Non-Residential (Out of Town)	_____	_____
Total	_____ 1599 _____	_____
Number to Total Potential Users Living in the Service Area	_____	_____

* Note: Residential Users: classify by type of user regardless of quantity of water used. This classification should include those meters serving individual rural residence.

VIII CURRENT WATER AND SEWER CONNECTION FEES FOR EACH SIZE WATER METER CONNECTION

N/A

<u>Meter Size</u>	<u>Water Connection Fee</u>	<u>Sewer Connection Fee</u>
<u>5/8" x 3/4"</u>	<u>\$</u>	<u>\$</u>
<u>1 - Inch</u>	<u>\$</u>	<u>\$</u>

IX. SEWER RATES - EXISTING SYSTEM

Percentage of Water Bill _____ % Minimum Charge \$ _____

Other: (If Charge Not Based on Water Bill) _____

Date This Rate Went Into Effect _____

X. WATER RATES - EXISTING SYSTEM

(See Appendix A - Existing Rates)

Existing Rate Schedule:

First	<u>2,000</u>	Gallons @ \$	<u>23.15</u>	Minimum
Next	<u>2,000</u>	Gallons @ \$	<u>9.57</u>	per 1,000 Gallons.
Next	<u>6,000</u>	Gallons @ \$	<u>9.07</u>	per 1,000 Gallons.
Next	<u>10,000</u>	Gallons @ \$	<u>8.58</u>	per 1,000 Gallons.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
All Over	<u>20,000</u>	Gallons @ \$	<u>8.08</u>	per 1,000 Gallons.

Date This Rate Went Into Effect _____ 3/31/2019 _____

If More Than One Rate Schedule, Please Include All Schedules.

**XI. ANALYSIS OF ACTUAL SEWER USAGE - EXISTING SYSTEM -
12 MONTH PERIOD**

N/A

For Period _____ to _____.

All Meter

<u>Sizes</u>	<u>Monthly Sewer Usage</u>	<u>Average</u>	<u>Residential</u>		<u>Non-Residential</u>	
			<u>No. of Users</u>	<u>Usage (1000)</u>	<u>No. of Users</u>	<u>Usage (1000)</u>
0 -	2,000	Gallons	1,000	_____	_____	_____
2,000 -	3,000	Gallons	2,500	_____	_____	_____
3,000 -	4,000	Gallons	3,500	_____	_____	_____
4,000 -	5,000	Gallons	4,500	_____	_____	_____
5,000 -	6,000	Gallons	5,500	_____	_____	_____
6,000 -	7,000	Gallons	6,500	_____	_____	_____
7,000 -	8,000	Gallons	7,500	_____	_____	_____
8,000 -	9,000	Gallons	8,500	_____	_____	_____
9,000 -	10,000	Gallons	9,500	_____	_____	_____
10,000 -	11,000	Gallons	10,500	_____	_____	_____
11,000 -	12,000	Gallons	11,500	_____	_____	_____
12,000 -	13,000	Gallons	12,500	_____	_____	_____
13,000 -	14,000	Gallons	13,500	_____	_____	_____
14,000 -	15,000	Gallons	14,500	_____	_____	_____
15,000 -	16,000	Gallons	15,500	_____	_____	_____
16,000 -	17,000	Gallons	16,500	_____	_____	_____
17,000 -	18,000	Gallons	17,500	_____	_____	_____
18,000 -	19,000	Gallons	18,500	_____	_____	_____
19,000 -	20,000	Gallons	19,500	_____	_____	_____
_____ -	_____	Gallons	_____	_____	_____	_____
_____ -	_____	Gallons	_____	_____	_____	_____
_____ -	_____	Gallons	_____	_____	_____	_____
		Total	()	()	()	()
		Average Usage		()		()

(See Appendix C - User Income & Rate Structures)

XII. ANALYSIS OF ACTUAL WATER USAGE - EXISTING SYSTEM - 12 MONTH PERIOD

For Period _____ to _____.

All Meter

<u>Sizes</u>	<u>Monthly Water Usage</u>	<u>Average</u>	<u>Residential</u>		<u>Non-Residential</u>	
			<u>No. of Users</u>	<u>Usage (1000)</u>	<u>No. of Users</u>	<u>Usage (1000)</u>
0 -	2,000	Gallons	1,000	_____	_____	_____
2,000 -	3,000	Gallons	2,500	_____	_____	_____
3,000 -	4,000	Gallons	3,500	_____	_____	_____
4,000 -	5,000	Gallons	4,500	_____	_____	_____
5,000 -	6,000	Gallons	5,500	_____	_____	_____
6,000 -	7,000	Gallons	6,500	_____	_____	_____
7,000 -	8,000	Gallons	7,500	_____	_____	_____
8,000 -	9,000	Gallons	8,500	_____	_____	_____
9,000 -	10,000	Gallons	9,500	_____	_____	_____
10,000 -	11,000	Gallons	10,500	_____	_____	_____
11,000 -	12,000	Gallons	11,500	_____	_____	_____
12,000 -	13,000	Gallons	12,500	_____	_____	_____
13,000 -	14,000	Gallons	13,500	_____	_____	_____
14,000 -	15,000	Gallons	14,500	_____	_____	_____
15,000 -	16,000	Gallons	15,500	_____	_____	_____
16,000 -	17,000	Gallons	16,500	_____	_____	_____
17,000 -	18,000	Gallons	17,500	_____	_____	_____
18,000 -	19,000	Gallons	18,500	_____	_____	_____
19,000 -	20,000	Gallons	19,500	_____	_____	_____
_____ -	_____	Gallons	_____	_____	_____	_____
_____ -	_____	Gallons	_____	_____	_____	_____
_____ -	_____	Gallons	_____	_____	_____	_____
_____ -	_____	Gallons	_____	_____	_____	_____
		Total	(_____)	(_____)	(_____)	(_____)
		Average Usage		(_____)		(_____)

Total Water Purchased and/or Produced _____
 Total Water Sold _____

XIII. FACILITY CHARACTERISTICS OF PROPOSED SEWER SYSTEM

N/A

A. Sewage Treatment:

1. Type _____

2. Method of Sludge Disposal _____

3. Cost per 1,000 gallons if sewage treatment is contracted:
\$ _____

4. Date Constructed _____

B. Treatment Capacity of Sewage Treatment Plant _____

C. Type of Sewage Collector System (Describe) _____

D. Number and Capacity of Sewage Lift Stations _____

E. Sewage Collection System:

Lineal Feet of Collector Lines, by size 6" _____ 8" _____

10" _____ 12" _____, Larger _____

XIV. LAND AND RIGHTS - PROPOSED SEWER SYSTEM

N/A

Number of Treatment Plant Sites _____

Number of Pump Sites _____

Number of Other Sites _____

Total Acreage _____ **Acres**

Purchase Price \$ _____

XV. FACILITY CHARACTERISTICS OF PROPOSED WATER SYSTEM

A. Water Source: Describe adequacy of source (quality and quantity). Include an explanation of raw water source, raw water intake structure, treatment plant capacity, and current level of production (WTP). Also describe the adequacy of Water Purchase Contract if applicable.

Nebo purchases its potable water from the City of Madisonville.
The proposed project consists of a new SCADA system, an AMR system and
replacing the existing main pump station.

B. Water Storage:

Type: Ground Storage Tank _____ Elevated Tank _____

Standpipe _____ Other _____

Number of Storage Structures _____

Total Storage Volume Capacity _____

C. Water Distribution System:

Pipe Material _____

Lineal Feet of Pipe: 3" Diameter _____

6" _____ 8" _____

10" _____ 12" _____

Number and Capacity of Pump Station(s) 1 - 500 gpm

XVI. LAND AND RIGHTS - PROPOSED WATER SYSTEM

Number of Treatment Plant Sites _____ 0

Number of Pump Sites _____ 1

Number of Other Sites _____ 0

Total Acreage _____ <0.25 Acres

Purchase Price \$ _____ Unknown

XVII. NUMBER OF NEW SEWER USERS

N/A

*Residential (In Town)**

Residential (Out of Town)

Non-Residential (In Town)

Non-Residential (Out of Town)

Total

Number to Total Potential Users Living in the Service Area

*** Note: Residential Users: Classify by type of user regardless of quantity of water used. This classification should include those meters serving individual rural residences.**

XVIII. PROPOSED SEWER CONNECTION FEES FOR EACH SIZE WATER METER CONNECTION

N/A

Meter Size

Connection Fee

5/8" x 3/4

\$ _____

1 - Inch

\$ _____

1-1/2 Inch

\$ _____

2 - Inch

\$ _____

3 - Inch

\$ _____

4 - Inch

\$ _____

5 - Inch

\$ _____

6 - Inch

\$ _____

XIX. NUMBER OF NEW WATER USERS

Residential (In Town)*	<u>0</u>
Residential (Out of Town)*	<u>0</u>
Non-Residential (In Town)*	<u>0</u>
Non-Residential (Out of Town)*	<u>0</u>
Total	<u>0</u>
Number to Total Potential Users Living in the Service Area	<u>Unknown</u>

* Note:

Residential Users: Classify by type of user regardless of quantity of water used. This classification should include those meters serving individual rural residences.

XX.

<u>Meter Size</u>	<u>Connection Fee</u>
<u>5/8" x 3/4</u>	<u>\$</u>
<u>1 - Inch</u>	<u>\$</u>
<u>1-1/2 Inch</u>	<u>\$</u>
<u>2 - Inch</u>	<u>\$</u>
<u>3 - Inch</u>	<u>\$</u>
<u>4 - Inch</u>	<u>\$</u>
<u>5 - Inch</u>	<u>\$</u>
<u>6 - Inch</u>	<u>\$</u>

XXI. SEWER RATES - PROPOSED

N/A

A. Proposed Rate Schedule without RUS Grant:
Percent of Water Bill _____ % Minimum charge \$ _____
Other: (If Charge Not Based on Water Bill) _____

Proposed Rate Schedule: (Without RUS Grant)

First	_____	Gallons @ \$	_____	Minimum.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
All Over	_____	Gallons @ \$	_____	per 1,000 Gallons.

The above proposed rate, without RUS grant, must be completed for each grant. If the applicant/engineer desires, there is no objection to recommending a proposed rate with an estimated RUS grant in the Table below. However, the preparer should remember that the Table (A) above must be completed prior to Table (B).

B. Recommended Rate Schedule with RUS Grant:
Percentage of Water Bill _____ % Minimum Charge \$ _____
Other: (If Charge Not Based on Water Bill) _____

Recommended Rate Schedule: (With RUS Grant)

First	_____	Gallons @ \$	_____	Minimum.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
All Over	_____	Gallons @ \$	_____	per 1,000 Gallons.

If more than one rate, use additional sheets.

XXII. WATER RATES - PROPOSED

(See Appendix B - Proposed Rates)

A. Proposed Rate Schedule without RUS Grant:

First	_____	Gallons @ \$	_____	Minimum.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
All Over	_____	Gallons @ \$	_____	per 1,000 Gallons.

The above proposed rate, without RUS grant, must be completed for each grant. If the applicant/engineer desires, there is no objection to recommending a proposed rate with an estimated RUS grant in the Table below. However, the preparer should remember that the Table (A) above must be completed prior to Table (B).

B. Recommended Rate Schedule with RUS Grant:

First	_____	Gallons @ \$	_____	Minimum.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
Next	_____	Gallons @ \$	_____	per 1,000 Gallons.
All Over	_____	Gallons @ \$	_____	per 1,000 Gallons.

If more than one rate, use additional sheets.

XXIII FORECAST OF SEWER USAGE - INCOME - EXISTING SYSTEM - EXISTING USERS

N/A

<u>Meter</u> <u>Sizes*</u>	<u>Monthly Sewer Usage</u>	<u>Average</u> <u>Rate</u>	<u>Average</u>					
			<u>Residential</u> <u>No. of</u> <u>Users**</u>	<u>Usage</u> <u>(1000)</u>	<u>Income</u>	<u>Non-Residential</u> <u>No. of</u> <u>Users</u>	<u>Usage</u> <u>(1000)</u>	<u>Income</u>
	0 - 2,000 Gallons	1,000						
	2,000 - 3,000 Gallons	2,500						
	3,000 - 4,000 Gallons	3,500						
	4,000 - 5,000 Gallons	4,500						
	5,000 - 6,000 Gallons	5,500						
	6,000 - 7,000 Gallons	6,500						
	7,000 - 8,000 Gallons	7,500						
	8,000 - 9,000 Gallons	8,500						
	9,000 - 10,000 Gallons	9,500						
5/8	10,000 - 11,000 Gallons	10,500						
x	11,000 - 12,000 Gallons	11,500						
3/4	12,000 - 13,000 Gallons	12,500						
Inch	13,000 - 14,000 Gallons	13,500						
	14,000 - 15,000 Gallons	14,500						
	15,000 - 16,000 Gallons	15,500						
	16,000 - 17,000 Gallons	16,500						
	17,000 - 18,000 Gallons	17,500						
	18,000 - 19,000 Gallons	18,500						
	19,000 - 20,000 Gallons	19,500						
	- Gallons							
	- Gallons							
	- Gallons							
	Sub-Total		()	()	()	()	()	()
	Average Monthly Rate	()						
	Average Monthly Usage			()			()	

* Breakdown of meter size usage is not required unless different sewer rates are charged based on size of water meter.

** Number of users should reflect the actual number of "meter settings".

XXIV. FORECAST OF SEWER USAGE - INCOME - NEW USERS - EXTENSION ONLY

N/A

Meter Sizes*	Monthly Sewer Usage	Average	Average		Non-Residential			
			Rate	Residential	Income	No. of	Usage	Income
			No. of	Usage		No. of	Usage	
			Users**	(1000)		Users	(1000)	
	0 - 2,000 Gallons	1,000						
	2,000 - 3,000 Gallons	2,500						
	3,000 - 4,000 Gallons	3,500						
	4,000 - 5,000 Gallons	4,500						
	5,000 - 6,000 Gallons	5,500						
	6,000 - 7,000 Gallons	6,500						
	7,000 - 8,000 Gallons	7,500						
	8,000 - 9,000 Gallons	8,500						
	9,000 - 10,000 Gallons	9,500						
5/8	10,000 - 11,000 Gallons	10,500						
x	11,000 - 12,000 Gallons	11,500						
3/4	12,000 - 13,000 Gallons	12,500						
Inch	13,000 - 14,000 Gallons	13,500						
	14,000 - 15,000 Gallons	14,500						
	15,000 - 16,000 Gallons	15,500						
	16,000 - 17,000 Gallons	16,500						
	17,000 - 18,000 Gallons	17,500						
	18,000 - 19,000 Gallons	18,500						
	19,000 - 20,000 Gallons	19,500						
	- Gallons							
	- Gallons							
	- Gallons							
	Sub-Total		()	()	()	()	()	()
	Average Monthly Rate		()					
	Average Monthly Usage			()			()	

* Breakdown of meter size usage is not required unless different sewer rates are charged based on size of water meter.

** Number of users should reflect the actual number of "meter settings".

XXV. FORECAST OF WATER USAGE - INCOME - EXISTING SYSTEM - EXISTING USERS
 (See Appendix C - User Income & Rate Structures)

Meter Sizes*	Monthly Sewer Usage	Average Usage	Average Rate	Residential			Non-Residential		
				No. of Users**	Usage (1000)	Income	No. of Users	Usage (1000)	Income
	0 - 2,000 Gallons	1,000							
	2,000 - 3,000 Gallons	2,500							
	3,000 - 4,000 Gallons	3,500							
	4,000 - 5,000 Gallons	4,500							
	5,000 - 6,000 Gallons	5,500							
	6,000 - 7,000 Gallons	6,500							
	7,000 - 8,000 Gallons	7,500							
	8,000 - 9,000 Gallons	8,500							
	9,000 - 10,000 Gallons	9,500							
5/8	10,000 - 11,000 Gallons	10,500							
x	11,000 - 12,000 Gallons	11,500							
3/4	12,000 - 13,000 Gallons	12,500							
Inch	13,000 - 14,000 Gallons	13,500							
	14,000 - 15,000 Gallons	14,500							
	15,000 - 16,000 Gallons	15,500							
	16,000 - 17,000 Gallons	16,500							
	17,000 - 18,000 Gallons	17,500							
	18,000 - 19,000 Gallons	18,500							
	19,000 - 20,000 Gallons	19,500							
	- Gallons								
	- Gallons								
	- Gallons								
	Sub-Total			()	()	()	()	()	()
	Average Monthly Rate		()						
	Average Monthly Usage				()		()		

* Breakdown of meter size usage is not required unless different sewer rates are charged based on size of water meter.

** Number of users should reflect the actual number of "meter settings".

XXVI. FORECAST OF WATER USAGE - INCOME - NEW USERS - EXTENSION ONLY

N/A

Meter Sizes*	Monthly Sewer Usage	Average		Residential			Non-Residential		
		Average	Rate	No. of Users**	Usage (1000)	Income	No. of Users	Usage (1000)	Income
	0 - 2,000 Gallons	1,000							
	2,000 - 3,000 Gallons	2,500							
	3,000 - 4,000 Gallons	3,500							
	4,000 - 5,000 Gallons	4,500							
	5,000 - 6,000 Gallons	5,500							
	6,000 - 7,000 Gallons	6,500							
	7,000 - 8,000 Gallons	7,500							
	8,000 - 9,000 Gallons	8,500							
	9,000 - 10,000 Gallons	9,500							
5/8	10,000 - 11,000 Gallons	10,500							
x	11,000 - 12,000 Gallons	11,500							
3/4	12,000 - 13,000 Gallons	12,500							
Inch	13,000 - 14,000 Gallons	13,500							
	14,000 - 15,000 Gallons	14,500							
	15,000 - 16,000 Gallons	15,500							
	16,000 - 17,000 Gallons	16,500							
	17,000 - 18,000 Gallons	17,500							
	18,000 - 19,000 Gallons	18,500							
	19,000 - 20,000 Gallons	19,500							
	- Gallons								
	- Gallons								
	- Gallons								
	Sub-Total			()	()	()	()	()	()
	Average Monthly Rate		()						
	Average Monthly Usage				()		()		

* Breakdown of meter size usage is not required unless different sewer rates are charged based on size of water meter.

** Number of users should reflect the actual number of "meter settings".

XVII. CURRENT OPERATING BUDGET - (SEWER SYSTEM)
(As of the last full operating year.)

N/A

A.	Operating Income:	\$	<hr/>
	<i>Sewer Revenue</i>		<hr/>
	<i>Late Charge Fees</i>		<hr/>
	<i>Other (Describe)</i>		<hr/>
	<i>Less Allowances and Deductions</i>		<hr/>
			()
	Total Operating Income	\$	<hr/>
B.	Operation and Maintenance Expenses:		
	<i>(Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)</i>		
	<i>Operation Expense</i>	\$	<hr/>
	<i>Maintenance Expense</i>		<hr/>
	<i>Customer Accounts Expense</i>		<hr/>
	<i>Administrative and General Expense</i>		<hr/>
	Total Operating and Maintenance Expenses	\$	<hr/>
	Net Operating Income	\$	<hr/>
C.	Non-Operating Income:		
	<i>Interest on Deposits</i>	\$	<hr/>
	<i>Other (Identify)</i>		<hr/>
	Total Non-Operating Income	\$	<hr/>
D.	Net Income	\$	<hr/>
E.	Debt Repayment:	\$	<hr/>
	<i>RUS Interest</i>		<hr/>
	<i>RUS Principal</i>		<hr/>
	<i>Non-RUS Interest</i>		<hr/>
	<i>Non-RUS Principal</i>		<hr/>
	Total Debt Repayment	\$	<hr/>
F.	Balance Available for Coverage	\$	<hr/>

**XVIII. CURRENT OPERATING BUDGET - (SEWER SYSTEM) - EXISTING SYSTEM
AND NEW USERS (1st Full Year of Operation) Year Ending**

N/A

A.	Operating Income:	\$ _____
	Sewer Revenue	_____
	Late Charge Fees	_____
	Other (Describe)	_____
	Less Allowances and Deductions	(_____)
	Total Operating Income	\$ _____
B.	Operation and Maintenance Expenses:	
	<i>(Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)</i>	
	Operation Expense	\$ _____
	Maintenance Expense	_____
	Customer Accounts Expense	_____
	Administrative and General Expense	_____
	Total Operating and Maintenance Expenses	\$ _____
	Net Operating Income	\$ _____
C.	Non-Operating Income:	
	Interest on Deposits	\$ _____
	Other (Identify)	_____
	Total Non-Operating Income	\$ _____
D.	Net Income	\$ _____
E.	Debt Repayment:	\$ _____
	RUS Interest	_____
	RUS Principal	_____
	Non-RUS Interest	_____
	Non-RUS Principal	_____
	Total Debt Repayment	\$ _____
F.	Balance Available for Coverage	\$ _____

XIX.

**PROPOSED OPERATING BUDGET - (SEWER SYSTEM) - NEW USERS -
EXTENSION ONLY (1st Full Year of Operation) Year Ending**

N/A

A.	Operating Income:	\$ _____
	Sewer Revenue	_____
	Late Charge Fees	_____
	Other (Describe)	_____
	Less Allowances and Deductions	(_____)
	Total Operating Income	\$ _____
B.	Operation and Maintenance Expenses:	
	<i>(Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)</i>	
	Operation Expense	\$ _____
	Maintenance Expense	_____
	Customer Accounts Expense	_____
	Administrative and General Expense	_____
	Total Operating and Maintenance Expenses	\$ _____
	Net Operating Income	\$ _____
C.	Non-Operating Income:	
	Interest on Deposits	\$ _____
	Other (Identify)	_____
	Total Non-Operating Income	\$ _____
D.	Net Income	\$ _____
E.	Debt Repayment:	\$ _____
	RUS Interest	_____
	RUS Principal	_____
	Non-RUS Interest	_____
	Non-RUS Principal	_____
	Total Debt Repayment	\$ _____
F.	Balance Available for Coverage	\$ _____

XXX. CURRENT OPERATING BUDGET - (WATER SYSTEM)
 (As of the full operating year.)

(From 2020 Audit)

A.	Operating Income:	\$	_____
	Water Sales		969,684
	Disconnect/Reconnect/Late Charge Fee		_____
	Other (Describe)		9,259
	Less Allowances and Deductions	(_____)
	Total Operating Income	\$	978,943
B.	Operation and Maintenance Expenses: (Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)		
	Source of Supply Expense	\$	515,023
	Pumping Expense (Purchase Power)	\$	12,731
	Water Treatment Expense	\$	_____
	Transmission and Distribution Expense	\$	70,112
	Customer Accounts Expense	\$	_____
	Administrative and General Expense	\$	305,591
	Total Operating Expense	\$	903,457
	Net Operating Expense	\$	75,486
C.	Non-Operating Income:		
	Interest on Deposits	\$	5,513
	Other (Identify)		_____
	Total Non-Operating Income	\$	5,513
D.	Net Income	\$	80,999
E.	Debt Repayment:	\$	_____
	RUS Interest		_____
	Short Term Borrowing		39,528
	KIA Loan B12-03 (P&I Payment)		5,604
	KRWA Series 2007A (P&I Payment)		14,891
	Total Debt Repayment	\$	60,023
F.	Balance Available for Coverage	\$	20,976

XXXI. CURRENT OPERATING BUDGET - (WATER SYSTEM) - EXISTING SYSTEM
AND NEW USERS (1st Full Year of Operation) Year Ending 2024

A.	Operating Income:	\$	_____	
	Water Sales		1,065,000	
	Disconnect/Reconnect/Late Charge Fee		_____	
	Other (Describe)		9,200	
	Less Allowances and Deductions	(_____)	
	Total Operating Income	\$	1,074,200	
B.	Operation and Maintenance Expenses: (Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)			
	Source of Supply Expense	\$	455,190	
	Pumping Expense	\$	14,329	(1)
	Water Treatment Expense	\$	_____	
	Transmission and Distribution Expense	\$	78,911	(1)
	Customer Accounts Expense	\$	_____	
	Administrative and General Expense	\$	343,943	(1)
	Total Operating Expense	\$	892,373	
	Net Operating Expense	\$	181,827	
C.	Non-Operating Income:			
	Interest on Deposits	\$	5,500	
	Other (Identify)		_____	
	Total Non-Operating Income	\$	5,500	
D.	Net Income	\$	187,327	
E.	Debt Repayment:	\$	_____	
	RUS P&I Payment		56,000	(2)
	Short Term Borrowing		_____	(3)
	KIA Loan B12-03 (P&I Payment)		-	(4)
	KRWA Series 2007A (P&I Payment)		14,891	
	Total Debt Repayment	\$	70,891	
F.	Short Lived Assets	\$	70,000	

F. Balance Available for Coverage \$ 46,436

- (1) It is assumed O&M Expenses will increase 3% per year from the 2020 Audit.
- (2) Assume RD Loan of \$1,542,000 @ 1.75% for 38 year. P&I Payment of \$56,000
- (3) Short Term Borrowing will be paid off in 2022.
- (4) KIA Loan B12-03 is will be paid off in2022.

XXXII. PROPOSED OPERATING BUDGET - (WATER SYSTEM) - NEW USERS - EXTENSION ONLY (1st Full Year of Operation) Year Ending _____ N/A

A.	Operating Income:	\$	
	Water Sales		
	Disconnect/Reconnect/Late Charge Fee		
	Other (Describe)		
	Less Allowances and Deductions	()
	Total Operating Income	\$	
B.	Operation and Maintenance Expenses: (Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)		
	Source of Supply Expense	\$	
	Pumping Expense	\$	
	Water Treatment Expense	\$	
	Transmission and Distribution Expense	\$	
	Customer Accounts Expense	\$	
	Administrative and General Expense	\$	
	Total Operating Expense	\$	
	Net Operating Expense	\$	
C.	Non-Operating Income:		
	Interest on Deposits	\$	
	Other (Identify)		
	Total Non-Operating Income	\$	
D.	Net Income	\$	
E.	Debt Repayment:	\$	
	RUS Interest		
	RUS Principal		
	Non-RUS Interest		
	Non-RUS Principal		
	Total Debt Repayment	\$	
F.	Balance Available for Coverage	\$	

XXXIII. ESTIMATED PROJECT COST - SEWER
(Round to nearest \$100)

N/A

	<u>Collection</u>	<u>Treatment</u>	<u>Total</u>
<i>Development</i>	_____	_____	_____
<i>Land and Rights</i>	_____	_____	_____
<i>Legal</i>	_____	_____	_____
<i>Engineering</i>	_____	_____	_____
<i>Interest</i>	_____	_____	_____
<i>Contingencies</i>	_____	_____	_____
<i>Initial Operating and Maintenance</i>	_____	_____	_____
<i>Other</i>	_____	_____	_____
TOTAL	_____	_____	_____

XXXIV. PROPOSED PROJECT FUNDING - SEWER

N/A

	<u>Collection</u>	<u>Treatment</u>	<u>Total</u>
<i>Applicant - User Contribution Fees</i>	_____	_____	_____
<i>Other - Applicant Contribution</i>	_____	_____	_____
<i>RUS Loan</i>	_____	_____	_____
<i>RUS Grant</i>	_____	_____	_____
<i>ARC Grant (If applicable)</i>	_____	_____	_____
<i>CDBG (If applicable)</i>	_____	_____	_____
<i>Other (Specify)</i>	_____	_____	_____
<i>Other (Specify)</i>	_____	_____	_____

XXXV. ESTIMATED PROJECT COST - WATER

Development	\$	1,165,000
Land and Rights		10,000
Legal		17,500
Engineering		147,000
Interest		15,000
Contingencies		120,500
Initial Operating and Maintenance		
Other		67,000
TOTAL	\$	1,542,000

XXXVI. PROPOSED PROJECT FUNDING

Applicant - User Connection Fees	\$	
Other Applicant Contribution		
RUS Loan		1,542,000
RUS Grant		
ARC Grant (If Applicable)		
CDBG (If Applicable)		
Other (Specify)		
Other (Specify)		
TOTAL	\$	1,542,000

APPENDIX A
EXISTING RATES

FOR Hopkins County, Kentucky
Community, Town or City

P.S.C. KY. NO. 1

4th Revised SHEET NO. 1

CANCELLING P.S.C. KY. NO. 1

3rd Revised SHEET NO. 1

NEBO WATER DISTRICT
(Name of Utility)

Minimum Water Rates Based on Size Connections

<u>Size of Water Meter Connections</u>	<u>Number of Gallons or Less Per Month to be Provided for the Minimum Rate</u>	<u>Minimum monthly Water Rate Per Connection</u>	
5/8 inch by 3/4 inch	2,000 gallons	\$23.15	[1]
1 inch	4,000 gallons	42.28	
1-1/2 inch	10,000 gallons	96.71	
2 inch	20,000 gallons	182.51	
3 inch	30,000 gallons	263.31	
4 inch	50,000 gallons	424.91	

Meter Rates for Water Usage in Addition to Minimum Charge

Subject to the minimum monthly water rate specified above, the following metered charges shall be made for water consumption per month to customers of all size connection:

<u>Number of Gallons of Water per Month</u>	<u>Monthly Charge per 1,000 Gallons</u>
First 2,000 gallons	\$23.15
Next 2,000 gallons	9.57
Next 6,000 gallons	9.07
Next 10,000 gallons	8.58
Over 20,000 gallons	8.08

DATE OF ISSUE April 16, 2019
Month / Date / Year

DATE EFFECTIVE March 31, 2019
Month / Date / Year

ISSUED BY [Signature]
(Signature of Officer)

TITLE Chairman

BY AUTHORITY OF ORDER OF THE PUBLIC SERVICE COMMISSION
IN CASE NO. 2019-00099 DATED April 16, 2019

**KENTUCKY
PUBLIC SERVICE COMMISSION**

Gwen R. Pinson
Executive Director

Gwen R. Pinson

EFFECTIVE
3/31/2019
PURSUANT TO 807 KAR 5:011 SECTION 9 (1)

APPENDIX B
PROPOSED RATES

TABLE 4
Proposed Water Rates
For
Nebo Water District

Water Meter Size 5/8"x3/4"

First	<u>2,000</u>	Gallons @	<u>\$28.40</u> Min.
Next	<u>2,000</u>	Gallons @	<u>\$10.50</u> per 1,000 Gallons
Next	<u>6,000</u>	Gallons @	<u>\$10.00</u> per 1,000 Gallons
Next	<u>10,000</u>	Gallons @	<u>\$9.51</u> per 1,000 Gallons
All Over	<u>20,000</u>	Gallons @	<u>\$9.01</u> per 1,000 Gallons

Water Meter Size 1"

First	<u>4,000</u>	Gallons @	<u>\$49.40</u> Min.
Next	<u>6,000</u>	Gallons @	<u>\$10.00</u> per 1,000 Gallons
Next	<u>10,000</u>	Gallons @	<u>\$9.51</u> per 1,000 Gallons
All Over	<u>20,000</u>	Gallons @	<u>\$9.01</u> per 1,000 Gallons

Water Meter Size 1-1/2"

First	<u>10,000</u>	Gallons @	<u>\$109.40</u> Min.
Next	<u>10,000</u>	Gallons @	<u>\$9.51</u> per 1,000 Gallons
All Over	<u>20,000</u>	Gallons @	<u>\$9.01</u> per 1,000 Gallons

Water Meter Size 2"

First	<u>20,000</u>	Gallons @	<u>\$204.50</u> Min.
All Over	<u>20,000</u>	Gallons @	<u>\$9.01</u> per 1,000 Gallons

Water Meter Size 3"

First	<u>30,000</u>	Gallons @	<u>\$294.60</u> Min.
All Over	<u>30,000</u>	Gallons @	<u>\$9.01</u> per 1,000 Gallons

Water Meter Size 4"

First	<u>50,000</u>	Gallons @	<u>\$474.80</u> Min.
All Over	<u>50,000</u>	Gallons @	<u>\$9.01</u> per 1,000 Gallons

APPENDIX C
USER INCOME & RATE STRUCTURE

RATE SCHEDULE 03 Residential 1"

First	4,000 Gallons	For	\$49.40	Per	Minimum Gallons (Minimum Bill)
Next	6,000 Gallons	For	\$10.00	Per	1,000 Gallons
Next	10,000 Gallons	For	\$9.51	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
All Over	20,000 Gallons	For	\$9.01	Per	1,000 Gallons

USER GROUP:	Residential	TYPE of SERVICE:		RESIDENTIAL/NON-RESIDENTIAL?		Total Annual Usage	(input R or N) R
70 Users @	1,881 Gallons	=	\$49.40 per user -	\$3,458.00 annual	131,700		
73 Users @	6,475 Gallons	=	\$74.15 per user -	\$5,412.95 annual	472,700		
25 Users @	14,236 Gallons	=	\$149.68 per user -	\$3,742.00 annual	355,900		
18 Users @	44,333 Gallons	=	\$423.74 per user -	\$7,627.32 annual	798,000		
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual			
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual			
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual			
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual			
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual			
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual			
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual			
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual			
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Users @	Gallons	=	\$49.40 per user -	\$0.00 annual			
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual			
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual			
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual			
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual			

TOTALS:

186 Users	1,758,300 Gallons		MONTHLY	\$1,686.69
	avg. volume/user = 9,453		ANNUAL	\$20,240.27

RATE SCHEDULE 07 Residential 2"

First	20,000 Gallons	For	\$204.50	Per	Minimum Gallons (Minimum Bill)
Next	Gallons	For	\$0.00	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
All Over	20,000 Gallons	For	\$9.01	Per	1,000 Gallons

USER GROUP:

Residential

TYPE of SERVICE:

RESIDENTIAL/NON-RESIDENTIAL?

RESIDENTIAL/NON-RESIDENTIAL?

Total Annual Usage

(input R or N)

R

15 Users @	6,287 Gallons	=	\$204.50 per user -	\$3,067.50 annual	94,300
9 Users @	193,533 Gallons	=	\$1,768.04 per user -	\$15,912.36 annual	1,741,800
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
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Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
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Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	
Users @	Gallons	=	\$204.50 per user -	\$0.00 annual	

TOTALS:

24 Users	1,836,100 Gallons		MONTHLY	\$1,581.66
	avg. volume/user = 76,504		ANNUAL	\$18,979.86

RATE SCHEDULE **3" Meter**

First	30,000 Gallons	For	\$294.60	Per	Minimum Gallons (Minimum Bill)
Next	Gallons	For	\$0.00	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
All Over	30,000 Gallons	For	\$9.01	Per	1,000 Gallons

USER GROUP:

TYPE of SERVICE:

RESIDENTIAL/NON-RESIDENTIAL?

Total Annual Usage

(input R or N)

Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly
Users @	Gallons	=	\$294.60	per user -	\$0.00	monthly

TOTALS:

0 Users	0 Gallons		MONTHLY	\$0.00
avg. volume/user = #DIV/0!			ANNUAL	\$0.00

RATE SCHEDULE

First	Gallons	For	Per	Minimum Gallons (Minimum Bill)
Next	Gallons	For	Per	1,000 Gallons
Next	Gallons	For	Per	1,000 Gallons
Next	Gallons	For	Per	1,000 Gallons
Next	Gallons	For	Per	1,000 Gallons
Next	Gallons	For	Per	1,000 Gallons
All Over	0 Gallons	For	Per	1,000 Gallons

USER GROUP:	[]	TYPE of SERVICE:	[]	RESIDENTIAL/NON-RESIDENTIAL?	Total Annual Usage	(input R or N) []
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
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Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
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Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
Users @	[]	Gallons	=	\$0.00 per user -	\$0.00	monthly
TOTALS:	0 Users	0 Gallons		MONTHLY	\$0.00	
	avg. volume/user = #DIV/0!			ANNUAL	\$0.00	

GRAND TOTALS: MONTHLY \$78,182.46
ANNUAL \$938,189.56

Total Residential Users	18,833	Total Non-Residential Users	0
Total Residential Gallons	71,564,500	Total Non-Residential Gallons	0
Total Users	=	18,833	
Gallons/EDU	=	3,799.95	
Commercial EDU's	=	0	
Residential EDU's	=	18,833	
Total EDU's	=	18,833	
Monthly Cost per EDU	=	\$4.15	

User Income and Rate Schedules

Customer Name: Nebo Water District

Project Name: 4317

D. USER INCOME CALCULATIONS

RATE SCHEDULE 02 Commercial 5/8"

First	2,000 Gallons	For	\$28.40	Per	Minimum Gallons (Minimum Bill)
Next	2,000 Gallons	For	\$10.50	Per	1,000 Gallons
Next	6,000 Gallons	For	\$10.00	Per	1,000 Gallons
Next	10,000 Gallons	For	\$9.51	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
All Over	20,000 Gallons	For	\$9.01	Per	1,000 Gallons

USER GROUP:	Non-Residential	TYPE of SERVICE:	Water	RESIDENTIAL/NON-RESIDENTIAL?	Total Annual Usage	(input R or N) N
138 Users @	698 Gallons	=	\$28.40 per user -	\$3,919.20 annual	96,300	
22 Users @	2,895 Gallons	=	\$37.80 per user -	\$831.60 annual	63,700	
6 Users @	5,800 Gallons	=	\$67.40 per user -	\$404.40 annual	34,800	
3 Users @	14,933 Gallons	=	\$156.32 per user -	\$468.96 annual	44,800	
11 Users @	42,373 Gallons	=	\$406.08 per user -	\$4,466.88 annual	466,100	
Users @	Gallons	=	\$28.40 per user -	\$0.00 annual		
Users @	Gallons	=	\$28.40 per user -	\$0.00 annual		
Users @	Gallons	=	\$28.40 per user -	\$0.00 annual		
Users @	Gallons	=	\$28.40 per user -	\$0.00 annual		
Users @	Gallons	=	\$28.40 per user -	\$0.00 annual		
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Users @	Gallons	=	\$28.40 per user -	\$0.00 annual		
Users @	Gallons	=	\$28.40 per user -	\$0.00 annual		
Users @	Gallons	=	\$28.40 per user -	\$0.00 annual		
Users @	Gallons	=	\$28.40 per user -	\$0.00 annual		

TOTALS:

180 Users	705,700 Gallons	MONTHLY	\$840.92
	avg. volume/user = 3,921	ANNUAL	\$10,091.04

RATE SCHEDULE 22 2 Min. Com 5/8" (2 Businesses)

First	4,000 Gallons	For	\$56.80	Per	Minimum Gallons (Minimum Bill)
Next	6,000 Gallons	For	\$10.00	Per	1,000 Gallons
Next	10,000 Gallons	For	\$9.51	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
All Over	20,000 Gallons	For	\$9.01	Per	1,000 Gallons

RATE SCHEDULE 04 Commercial 1"

First	4,000 Gallons	For	\$49.40	Per	Minimum Gallons (Minimum Bill)
Next	6,000 Gallons	For	\$10.00	Per	1,000 Gallons
Next	10,000 Gallons	For	\$9.51	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
Next	Gallons	For	\$0.00	Per	1,000 Gallons
All Over	20,000 Gallons	For	\$9.01	Per	1,000 Gallons

USER GROUP:	Non-Residential	TYPE of SERVICE:		RESIDENTIAL/NON-RESIDENTIAL?	Total Annual Usage	(input R or N)
24 Users @	1,088 Gallons	=	\$49.40 per user -	\$1,185.60 annual	26,100	N
11 Users @	7,118 Gallons	=	\$80.58 per user -	\$886.38 annual	78,300	
1 Users @	10,300 Gallons	=	\$112.25 per user -	\$112.25 annual	10,300	
0 Users @	Gallons	=	\$49.40 per user -	\$0.00 annual	0	
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual		
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual		
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual		
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual		
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual		
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Users @	Gallons	=	\$49.40 per user -	\$0.00 annual		
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual		
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual		
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual		
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual		
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual		
Users @	Gallons	=	\$49.40 per user -	\$0.00 annual		

TOTALS:
36 Users **114,700** Gallons **MONTHLY \$182.02**
 avg. volume/user = 3,186 **ANNUAL \$2,184.23**

GRAND TOTALS: MONTHLY \$10,641.66
 ANNUAL \$127,699.88

Total Residential Users	0	Total Non-Residential Users	360
Total Residential Gallons	0	Total Non-Residential Gallons	12,803,300
Total Users	=	360	
Gallons/EDU	=	#DIV/0!	
Commercial EDU's	=	#DIV/0!	
Residential EDU's	=	0	
Total EDU's	=	#DIV/0!	
Monthly Cost per EDU	=	#DIV/0!	

APPENDIX D
SHORT-LIVED ASSETS

Nebo Water District

Water Replacement Reserve - Short Lived Assets				
Type of Reserve	Use/Description	Replacement Cost	Reserve on Hand	Annual Reserve
1 - 5 Years	Meters	\$40,000	\$0	\$8,000
1 - 5 Years	Computers & Software	\$25,000	\$0	\$5,000
1 - 5 Years	Pumps	\$10,000	\$0	\$2,000
1 - 5 Years	General Maintenance	\$25,000	\$0	\$5,000
1 - 5 Years	Misc. Repairs	\$25,000	\$0	\$5,000
Subtotal 1 - 5 Years				\$25,000
5 - 10 Years	Meters	\$40,000	\$0	\$4,000
5 - 10 Years	Trucks (2 Truck)	\$80,000	\$0	\$8,000
5 - 10 Years	Misc. Repairs	\$25,000	\$0	\$2,500
5 - 10 Years	Backhoe	\$75,000	\$0	\$7,500
5 - 10 Years	General Maintenance	\$25,000	\$0	\$2,500
5 - 10 Years	Pumps	\$10,000	\$0	\$1,000
Subtotal 5 - 10 Years				\$25,500
10 - 15 Years	Misc. Repairs	\$25,000	\$0	\$1,667
10 - 15 Years	Meters	\$40,000	\$0	\$2,667
10 - 15 Years	General Maintenance	\$25,000	\$0	\$1,667
10 - 15 Years	Tank Repaint	\$200,000	\$0	\$13,333
Subtotal 10 - 15 years				\$19,333
Replacement Reserve - Short Lived Assets				\$69,833