# **COMMONWEALTH OF KENTUCKY**

### **BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

ELECTRONIC APPLICATION OF MOUNTAIN WATER DISTRICT FOR A GENERAL ADJUSTMENT OF WATER RATES

) CASE NO. 2022-00366

# **CORRECTION OF HEARING TESTIMONY**

Mountain Water District ("Mountain District") gives notice of a correction to Ms. Olson's

testimony provided at the hearing in this matter.

In response to questions from Commission Chandler, Ms. Olson responded that to her knowledge no federal funds had been expressly allocate to or otherwise committed to Mountain District for infrastructure improvements to reduce water loss.<sup>1</sup> Subsequent to the hearing, Ms. Olson reviewed Mountain District's records and consulted with Mountain District personnel regarding the allocation of federal funds to Mountain District. She wishes to correct her testimony as follows:

Mountain Water District is currently receiving federal funds for infrastructure improvements to reduce water loss.

In 2022 the Kentucky Infrastructure Authority awarded Mountain Water District a Clean Water Grant (No. 22CWW069) in the amount of \$1,926,262 for its Capital Infrastructure Water Main Replacement Project (WX21195063), whose purpose was the replacement of water mains susceptible to repetitive leaks. The project profile for this project is attached as Exhibit 1. The Clean Water Grant was funded by a federal appropriation to the Commonwealth of Kentucky contained in the American Rescue Plan Act. Pursuant to House Bill 1 of the 2022 Regular Session, the General Assembly allocated a portion of these funds to Pike County for water and sewer projects.

<sup>&</sup>lt;sup>1</sup> VTR 10/16/2023 10:43:34 – 10:44:09.

In addition to these funds, Pike County Fiscal Court in 2022 allocated to Mountain Water District approximately \$1.5 million of the American Rescue Plan Act funds which House Bill 1 allocated to Pike County Fiscal Court to be used at the Fiscal Court's discretion. Mountain Water District used these monies to fund the Water Loss Prevention Program Phase I – Contract #1 Project (WRIS No. WX21195027). The profile for this project is attached as Exhibit 2. Mountain Water District had been unable to procure KIA funding for the project. With the funding from Pike County Fiscal Court, the implementation of the project, which includes telemetry installation for 22 water storage tanks and pump stations, and tank road work and fencing to secure the tanks, is currently in progress.

Dated: September 7, 2023

Respectfully submitted,

Gerald E. Wuetcher Stoll Keenon Ogden PLLC 300 West Vine Street, Suite 2100 Lexington, Kentucky 40507-1801 Telephone: (859) 231-3017 Fax: (859) 259-3517 gerald.wuetcher@skofirm.com

Counsel for Mountain Water District

## **CERTIFICATE OF SERVICE**

In accordance with 807 KAR 5:001, Section 8 and the Commission's Order of July 22, 2021 in Case No. 2020-00085, I certify that this document was transmitted to the Public Service Commission on September 7, 2023 and that no parties have been excused from electronic filing procedures.

Counsel for Mountain Water District

#### VERIFICATION

# COMMONWEALTH OF KENTUCKY ) ) SS: COUNTY OF PIKE )

The undersigned, **Tammy Olson**, being duly sworn, deposes and says she is the General Manager for Mountain Water District, she has reviewed the Correction to Hearing Testimony, and the statements contained therein are to true and accurate as the best of her information, knowledge, and belief.

Tammy Olson

Subscribed and sworn to before me, a Notary Public in and before said County and State,

this  $\underline{7}$  day of September 2023.

sawright

Notary Commission Number: <u>KYNP74443</u>

My Commission Expires:

06/23/2027



# **EXHIBIT 1**



Legal Applicant:	Mountain Water District		
Project Title:	MWD - Capital Infrastructure Water	Main Replacement	
Project Number:	WX21195063 View Map	Submitted By:	BSADD
Funding Status:	Fully Funded	Primary County:	Pike
Project Status:	Approved	Planning Unit:	Pike
Project Schedule:	0-2 Years	Multi-County:	No
E-Clearinghouse SAI:	KY202303070349	ECH Status:	Approved
Applicant Entity Type:	Water District (KRS 74)	ADD WMC Contact:	Matt Scofield
Date Approved (AWMPC):	10-06-2022		

#### Project Description:

The Mountain Water District is proactive in combating water loss in an attempt to reach the goal of the Kentucky Public Service Commission's benchmark of fifteen percent (15%). This project consists of multiple water main replacement locations that are susceptible to repetitive leaks due to the age of infrastructure, method of installation, poor conditions of topsoil, and the geographical challenges of the mountainous terrain in eastern Kentucky that results in high pressure zones. The repetitive leaks at these locations cause interruption of service that impacts our residential, business, and commercial customers, schools, governmental facilities, clinics, and fire departments. The cost to the Mountain Water Districts to perform repairs and daily maintenance is a financial burden to our ratepayers.

#### Need for Project:

Briefly describe how this project promotes public health or achieves and/or maintains compliance with the Clean Water Act or Safe Drinking Water Act:

These project area the geographical of the geogra	is are susceptible to repetitive the subsceptible to repetitive the set of the mountainous of the mountainous the subsceptible to the subsceptible	e leaks due to age of infr s terrain in eastern Kent	astructure, method c ucky.	of installation, poor cor	nditions of topsoil, and
Project Alternative	IS:				
Alternate A:					
Do nothing					
Alternate B:					
Continue to expe	erience leaks and interruption	n of service from repetiti	ve leaks.		
Legal Applicant:					
Entity Ty	Entity Type: Water District (KRS 74) PSC Group ID: 25605				
Entity Na	me: Mountain Water District				
Web U	RL: www.mountainwaterdist	rictky.com			
Office EM	lail: tolson@mtwater.org				
Office Pho	one: 606-631-4000	Toll Free:	Fax: 6	06-631-3087	
Mail Address Lin	e 1: PO Box 3157		Phys Address Line	1:	
Mail Address Lin	e 2:		Phys Address Line	2:	
Mail City, State	Zip: Pikeville, KY 41502		Phys City, State Zi	p:	
Contac	ct: Tammy Olson	Financial Contact:		Auth Official:	Randy Tackett
Contact Titl	e: Acting General Manager	Financial Contact Title:		Auth Official Title:	Chair Person
Contact EMa	il: tolson@mtwater.org	Financial Contact EMail:		Auth Official EMail:	randytackett55@gmail.com
Contact Phon	e: 606-631-4000	Financial Contact Phone:		Auth Official Phone:	606-432-4019
Data Sourc	e: Kentucky Infrastructure Autho	prity			Date Last Modified: 05.23.2023
Project Administ	trator (PA) Information		Applicant Conta	ct (AC) Information	
Name:	Sharon Hall		Name:	Tammy Olson	
Title:	Grants Administrator		Title:	Executive Assistant	
Organization:	Pike County Fiscal Court		Organization:	Mountain Water Distri	ct
Address Line 1:	146 Main St		Address Line 1:	6332 Zebulon Hwy	
Address Line 2:			Address Line 2:	PO Box 3157	
City:	Pikeville State: KY Zip: 4150	1	City:	Pikeville State: KY Zi	p: <b>41502</b>
Phone:	606-432-6369 Fax:		Phone:	606-631-9162 Ext. 303	Fax: 606-631-3087



#### Project Engineer (PE) Information:

- ✓ This project requires a licensed Professional Engineer.
- A Professional Engineer has been procured for this project.

#### Estimated Budget

	Construction Cost Ca
Cost	Cost Cat
s: \$ 57,787	
s:	Trans
s:	
s:	
g:	
n: \$ 91,000	
n: \$ 26,000	
n: \$ 80,000	
r: \$ 13,000	
n: \$1,587,000	Tot
t:	Total Quatainable
s:	l otal Sustainable
s: \$ 71,475	Note: Total Sustainabi
t: \$ 1,926,262	Within construction and This breakout is provid
	Cost   S: \$ 57,787   s: \$ 1,587,000   nt: \$ 1,587,000   nt: \$ 1,587,000   nt: \$ 1,926,262

Construction Cost Categories:			
Cost Category	Cost		
Treatment:			
Transmission & Distribution:	\$ 1,587,000		
Lead Remediation:			
Source:			
Storage:			
Purchase of Systems:			
Restructuring:			
Land Acquisition:			
Non-Categorized:			
Total ConstructionCost:	\$ 1,587,000		

#### Total Sustainable Infrastructure Costs:

Note: Total Sustainability Infrastructure Costs are included within construction and other costs reported in this section. This breakout is provided for SRF review purposes.

#### **Project Funding Sources:**

Total Project Cost:	\$ 1,926,262
Total Committed Funding:	\$ 1,926,262
Funding Gap:	\$ 0

O This project will be requesting SRF funding for fiscal year 2024.

# Estimated Project Schedule:

Est. Environmental Review Submittal Date:	04-01-2023
Estimated Bid Date:	06-01-2023
Estimated Construction Start Date:	08-01-2023
Estimated Construction Completeion Date:	08-01-2024

Funding Source	Loan or Grant ID	Fiscal Year	Amount	Status	Applicable Date
22HB001 Cleaner Water Program (FY 2023)	22CWW069	2023	\$ 1,926,262	Committed	11-19-2022
	Total Comitted I	unding:	\$ 1,926,262		

#### **Funding Source Notes:**

MWD is requesting to use \$1,926,262 of the Pike County allocation from CWP Round 2

#### The following systems are beneficiaries of this project:

#### ✓ KY0980575 Mountain Water District

Note: Check mark indicates primary system for this project.

Project Ranking by AWMPC:	Plans and specs have been sent to DOW.
Regional Ranking(s):	Plans and specs have been reviewed by DOW.
Planning Unit Ranking:	Plans and specs have been sent to PSC.
Total Points:	Plans and specs have been reviewed by PSC.
	Economic, Demographic and Geographic Impacts
Economic Impacts	
John Crontod:	

Jobs Created:	
Jobs Retained:	



WX21195063 - Mountain Water District

MWD - Capital Infrastructure Water Main Replacement

*Demographic Impacts (GIS Census Overlay)					
Servceable Demographic	Project Area	Included Systems	Included Utilities		
Population:	96	35,094	35,092		
Households:	39	17,453	17,453		
MHI:	\$32,853	\$37,514	*\$37,514		
MHI MOE	\$9,586	\$10,917	*\$10,917		
MOE as Pct:	29%	29.0%	29.0%		
**NSRL:		2	2		

Population and household counts are based on 2010 census block values from the SF1 (100%) dataset.

MHI Source is from the American Community Survey 2017-2021 5 Yr Estimates (Table B19013 \*(for the primary system operated by the above listed beneficiary utilities).

MHI MOE = Med HH Income Margin of Error.

\*\* NSRL (Non-Standard Rate Levels):

- 0 = Income above Kentucky MHI (KMHI).
- 1 = Income between 80% KMHI and KMHI.
- 2 = Income less than or equal to 80% KMHI.
- KMHI = \$55,454

#### - 80% KHMI = \$44,363

#### New Customers

New Residential Customers:	
New Commercial Customers:	
New Institutional Customers:	
New Industrial Customers:	

New or Improved Service				
Service Demographic	Survey Based	Census Overlay*		
To Unserved Households:	39	39		
To Underserved Households:	12			
To Total Households:	51	39		
** Cost Per Household:	\$37	,770		

- \* GIS Census block overlay figures are estimates of population and households potentially served by systems and projects based on a proximity analysis of relevant service lines to census block boundaries.
- \*\* Cost per household is based on surveyed household counts, not GIS overlay values.

Geographic Impacts For Project Area				
Counties				
l				
Legislative Districts				
Legislator				
John Blanton				
Jacob Justice				
Ashley Tackett Laferty				
Phillip Wheeler				
Congressional 5 Hal Rogers				

Groundwater	Ser	nsitivi	ty Zo	nes

HUC 10 watersheds			
HUC Code	Watershed Name		
0507020103	Knox Creek-Tug Fork		
0507020206	Shelby Creek		
0507020207	Russell Fork-Levisa Fork		
0507020302	Mud Creek-Levisa Fork		
0507020303	Johns Creek		

Geographic Impacts For Included System(s)				
Counties				
Letcher				
Pike				
Legislative Districts				
<b>District Name</b>	Legislator			
House 092	John Blanton			
House 094	Jacob Justice			
House 095	Ashley Tackett Laferty			
House 097	Bobby McCool			
Senate 29	Johnnie Turner			
Senate 31	Phillip Wheeler			
Congressional 5	Hal Rogers			



#### **DW Specific Impacts**

- This project relates to a public health emergency.
- O This project will assist a non-compliant system to achieve compliance.
- O This project will assist a compliant system to meet future requirements.
- O This project will provide assistance not compliance related.
- O This project is necessary to achieve full or partial compliance with a court order, agreed order, or a judicial or administrative consent decree.
- 🔘 Primary system has not received any SDWA Notices of Violation within the previous state fiscal year-July through June, i.e. July 2014 June 2015).
- Primary system has had an action level exceedance (lead concentrations exceed an action level of 15 ppb in more than 10% of customer taps sampled) within the last compliance period.

Primary system has received a lead trigger level exceedance (lead concentrations exceed a trigger level of 10 ppb in more than 10% of customer taps sampled) within the last compliance period.

#### Project Readiness - Lead Inventory and Lead Service Line Replacement:

#### Lead Service Line Inventory:

A description of goals to be achieved and products to be created (e.g., electronic or GIS database; customer communication tools) when creating a lead service line inventory procedure, including a proposed timeline for achieving each goal.

#### Lead Service Line Replacement:

A strategy for informing customers before a LSLR and a template for an agreement with the private property owner to replace the LSL.

- A process for documenting all property owners declining replacement of privately owned portion of LSL.
- A procedure for customers to flush service lines and premise plumbing of particulate lead.
- A proposed plan for conducting LSL replacement utilizing all requested funding.
- A funding strategy for conducting LSLRs utilizing all requested funding.

	Project Components - Mapped Point Features							
DOW Permit ID	Count	FeatureType	Purpose	Status	Existing Capacity	Proposed Capacity	Units	
KY0980575	5	HYDRANT	FLUSH HYDRANT	NEW			EA	
KY0980575	9	VALVE	6" GATE VALVE	NEW			EA	

#### **Project Components - Mapped Line Features**

DOW Permit ID	Line Type	Purpose	Activity	Size (in.)	Material	Length (LF)
KY0980575	WATER LINE: FINISHED	DISTRIBUTION	EXTENSION	6.00	DUCTILE IRON	19,947
KY0980575	WATER LINE: FINISHED	DISTRIBUTION	EXTENSION	6.00	PVC	1,802
					Total Length	21,749

#### Administrative Components:

🗸 Planning

🔵 Design

Management

#### **Regionalization Components and Eliminated Systems/Plants:**

#### Public Water Systems Eliminated:

This project includes the elimination of public water system(s) through merger or acquisition.

Construction

#### Water Treatment Plants Eliminated:

O This project includes the elimination of water treatment plant(s).

#### Supplementation of Raw Water Supply:

O This project includes supplementing the existing raw water supply.



#### Supplementation of Potable Water Supply:

O This project includes supplementing the existing potable water supply.

#### Supplementation of Emergency Water Supply:

O This project includes supplementing the existing emergency water supply.

#### Water Source Protection

- This project will preventatively address PFAS or other emerging contaminants of the source water.
- O This project will address current PFAS or other emerging contaminants of the source water.
- This project rehabilitates a water source dam or reservior.
- O This project includes land acquisition for water source protection.

#### Water Treatment Components

O This project includes water treatment components.

#### Water Distribution and Storage Components:

This project includes water distribution and/or storage components.

#### Water Line Extensions:

This project includes water line extension(s).

Length of extensions (LF): 21,749

Number of new connections:

O This projects extends service to unserved rural areas.

#### **Redundancy Components:**

O This project includes emergency power generators for distribution and/or storage activities.

O This project includes redundant distribution and/or storage processes.

#### Finished Water Quality:

O This project includes infrastructure to address inadequate water turnover and disinfection byproducts (DBPs).

#### Service Line Inventory:

O This project includes implementation of a service line inventory.

#### Water Line Replacement:

- This project replaces problem water lines (breaks, leaks, or restrictive flows due to age), water lines consisting of lead
  - and/or asbestos-cement (AC), and/or inadequately sized water lines.
- In-line or in-situ repair medhods will be used in lieu of water line replacement.

Total length of in-place or in-line repair (LF):

This project replaces lead service lines.

#### Water Loss in the past 12 Months:

The system has experienced the following water loss over the past 12 months:

Water Loss Volume (MG): 135.190

Water Loss Percent (%): 12.000

#### Water Storage and Pressure Components:

- O This project includes the construction of new water tank(s).
- This project includes the replacement of existing water tank(s).
- O This project includes the rehabilitation of existing water tank(s).
- O This project includes the construction of new pump station(s).
- O This project includes the rehabilitation of existing pump station(s).

# Security:

O This project includes security components for water distribution infrastructure.



WX21195063 - Mountain Water District

MWD - Capital Infrastructure Water Main Replacement

#### Sustainable Infrastructure - Green Infrastructure:

Green stormwater infrastructure includes a wide array of practices at multiple scales that manage wet weather and that maintains and restores natural hydrology by infiltrating, evapotranspiring and harvesting and using stormwater. On a regional scale, green infrastructure is the preservation and restoration of natural landscape features, such as forests, floodplains, and wetlands, coupled with policies such as infill and redevelopment that reduce overall imperviousness in a watershed. On the local scale, green infrastructure consists of site and neighborhood-specific practices, such as:

	Component	Cost
Bioretention		\$0
□ Trees		\$0
Green Roofs		\$0
Permeable Pavement		\$0
Cisterns		\$0
	Total Green Infrastructure Cost:	\$0
There are no Green Infrastructure com	ponents specified for this project.	

#### Sustainable Infrastructure - Water Efficiency:

The use of improved technologies and practices to deliver equal or better services with less water. Water efficiency encompasses conservation and reuse efforts, as well as water loss reduction and prevention, to protect water resources for the future. Examples include:

Component	Cost
Installing or retrofitting water efficient devices such as plumbing fixtures and appliances (toilets, showerheads, urinals).	\$0
Installing any type of water meter in previously unmetered areas (can include backflow prevention if in conjunction with meter replacement).	\$0
Replacing existing broken/malfunctioning water meters with AMR or smart meters, meters with leak detection, backflow prevention.	\$0
Retrofitting/adding AMR capabilities or leak equipment to existing meters.	\$0
Conducting water utility audits, leak detection studies, and water use efficiency baseline studies, which are reasonably expected to result in a capital project or in a reduction in demand to alleviate the need for additional capital investment.	\$0
Developing conservation plans/programs reasonable expected to result in a water conserving capital project or in a reduction in demand to alleviate the need for capital investment.	\$0
Recycling and water reuse projects that replace potable sources with non-potable sources (Gray water, condensate, and wastewater effluent reuse systems, extra treatment or distribution costs associated with water reuse).	\$0
Retrofit or replacement of existing landscape irrigation systems to more efficient landscape irrigation systems.	\$0
Water meter replacement with traditional water meters.*	\$0
Distribution pipe replacement or rehabilitation to reduce water loss and prevent water main breaks.*	\$0
Storage tank replacement/rehabilitation to reduce water loss.*	\$0
New water efficient landscape irrigation system, where there currently is not one.*	\$0
Total Water Efficiency Cost:	\$0
* Indicates a business case may be required for this item.	
There are no Water Efficiency components specified for this project.	



MWD - Capital Infrastructure Water Main Replacement

#### Sustainable Infrastructure - Energy Efficiency:

Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water projects, use energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:

Component	Cost
Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.	\$0
Utility-owned or publicly-owned renewable energy projects.	\$0
Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.	\$0
Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*	\$0
Pump refurbishment to optimize pump efficiency.*	\$0
Projects that result from an energy efficient related assessment.*	\$0
Projects that cost effectively eliminate pumps or pumping stations.*	\$0
Projects that achieve the remaining increments of energy efficiency in a system that is already very efficient.*	\$0
Upgrade of lighting to energy efficient sources.*	\$0
Automated and remote control systems (SCADA) that achieve substantial energy savings.*	\$0
Total Energy Efficiency Cost:	\$0

\* Indicates a business case may be required for this item.

There are no Energy Efficiency components specified for this project.

#### Sustainable Infrastructure - Environmentally Innovative:

Environmentally innovative projects include those that demonstrate new and/or innovative approaches to delivering services or managing water resources in a more sustainable way. Examples include:

Component	Cost
Total integrated water resources management planning, or other planning framework where project life cycle costs are minimized, which enables communities to adopt more efficient and cost-effective infrastructure solutions.	\$0
Plans to improve water quantity and quality associated with water system technical, financial, and managerial capacity.	\$0
Source water protection planning (delineation, monitoring, modeling).	\$0
Planning activities to prepare for adaptation to the long-term effects of climate change and/or extreme weather.	\$0
Utility sustainability plan consistent with EPA's sustainability policy.	\$0
Greenhouse gas inventory or mitigation plan and submission of a GHG inventory to a registry as long as it is being done for an SRF eligible facility.	\$0
Construction of US Building Council LEED certified buildings, or renovation of an existing building.	\$0
Projects that significantly reduce or eliminate the use of chemicals in water treatment.*	\$0
Treatment technologies or approaches that significantly reduce the volume of residuals, minimize the generation of residuals, or lower the amount of chemicals in the residuals.*	\$0
Trenchless or low impact construction technology.*	\$0
Using recycled materials or re-using materials on-site.*	\$0
Educational activities and demonstration projects for water or energy efficiency (such as rain gardens).*	\$0
Projects that achieve the goals/objectives of utility asset management plans.*	\$0
Total Environmentally Innovative Cost:	\$0

\* Indicates a business case may be required for this item.

There are no Environmentally Innovative components specified for this project.



WX21195063 - Mountain Water District

MWD - Capital Infrastructure Water Main Replacement

#### Sustainable Infrastructure - Asset Management:

If a category is selected, the applicant must provide proof to substantiate claims. The documents must be submitted to Anshu Singh (Anshu.Singh@ky.gov) for CW projects

Component

Last Rate Adjustment Date: 12-11-2022 Download Fee Schedule

Rate Adjustment Age: 13 months

System's monthly water bill, based on 4,000 gallons, as a percentage of MHI: 1.32%

The system(s) has an Asset Management Plan (AMP).

The system(s) involved in this project have specifically allocated funds for the rehabilitation and replacement of aging and deteriorating infrastructure.

Project Status: Approved

Date Approved: 10-06-2022

Date Revised:

# **EXHIBIT 2**



Legal Applicant:	Mountain Water District		
Project Title:	Water Loss Prevention Program Phase	I – Contract #1	
Project Number:	<b>WX21195027</b> View Map	Submitted By:	BSADD
Funding Status:	Not Funded	Primary County:	Pike
Project Status:	Approved	Planning Unit:	Pike
Project Schedule:	0-2 Years	Multi-County:	No
E-Clearinghouse SAI:		ECH Status:	
Applicant Entity Type:	Water District (KRS 74)	ADD WMC Contact:	Matt Scofield
Date Approved (AWMPC):	12-04-2015		

#### **Project Description:**

Project consists of addressing multiple items for compliance related matters. The District is under order from the Public Service Commission to curtail and decrease the volume of water loss, as well an Agreed Order from the Division of Water requiring the reduction of Trihalomethanes within the distribution system.

Phase 1 - Contract #1 project will include the installation of new master meters throughout the District's distribution system to quantify and facilitate identification of water loss zones. This project will also include telemetry to enable the District to remotely monitor master meter flow rates to increase response time to potential leak areas.

In addition, Phase I-Contract #1 will also include the research of possible solutions or methods (tank aeration / sprinkler system, in-line skid, treatment methods or infrastructure at water treatment plant) to reduce the TTHMs within the District's distribution system.

Beginning replacement of aging infrastructure to assist in combating the water loss is also included in this phase, with remaining funds, and will continue into Phase II of the project.

#### Need for Project:

Briefly describe how this project promotes public health or achieves and/or maintains compliance with the Clean Water Act or Safe Drinking Water Act: This project will help determine water loss

**Project Alternatives:** Alternate A: Don't install Master meters Alternate B:

#### Legal Applicant:

Entity Type:	Water District (KRS 74)	)	PSC Group ID: 25605		
Entity Name:	Mountain Water Distric	t			
Web URL:	www.mountainwaterdis	strictky.com			
Office EMail:	tolson@mtwater.org				
Office Phone:	606-631-4000	Toll Free:	Fax: 606-	631-3087	
Mail Address Line 1:	PO Box 3157		Phys Address Line 1:		
Mail Address Line 2:			Phys Address Line 2:		
Mail City, State Zip:	Pikeville, KY 41502		Phys City, State Zip:		
Contact: Ta	ammy Olson	Financial Contact:		Auth Official:	Randy Tackett
Contact Title: A	cting General Manager	Financial Contact Title:		Auth Official Title:	Chair Person
Contact EMail: to	olson@mtwater.org	Financial Contact EMail:		Auth Official EMail:	randytackett55@gmail.com
Contact Phone: 60	06-631-4000	Financial Contact Phone:		Auth Official Phone:	606-432-4019
Data Causa K	and a law before a family former. A soft				Data Last Madified, 05 00 0000

Data Source: Kentucky Infrastructure Authority

Date Last Modified: 05.23.2023



WX21195027 - Mountain Water District Water Loss Prevention Program Phase I - Contract #1

#### Project Administrator (PA) Information

Name:	Paul D Kincheloe	Name:	Tammy Olson
Title:	Water Management Coordinator	Title:	Executive Assistant
Organization:	Big Sandy Area Development District	Organization:	Mountain Water District
Address Line 1:	110 Resource Court	Address Line 1:	6332 Zebulon Hwy
Address Line 2:		Address Line 2:	PO Box 3157
City:	Prestonsburg State: KY Zip: 41653	City:	Pikeville State: KY Zip: 41502
Phone:	606-886-2374 Fax: 606-886-3382	Phone:	606-631-9162 Ext. 303 Fax: 606-631-3087

#### **Project Engineer (PE) Information:**

This project requires a licensed Professional Engineer.

A Professional Engineer has been procured for this project.

#### **Estimated Budget**

Project Cost Categories:				
Cost Category	Cost			
Administrative Expenses:	\$ 8,000			
Legal Expenses:	\$ 2,000			
Land, Appraisals, Easements:	\$ 30,000			
Relocation Expenses & Repayments:				
Planning:				
Engineering Fees - Design:	\$ 76,357			
Engineering Fees - Construction:	\$ 21,816			
Engineering Fees - Inspection:	\$ 68,163			
Engineering Fees - Other:	\$ 10,908			
Construction:	\$ 1,281,500			
Equipment:				
Miscellaneous:	\$ 1,256			
Contingencies:				
Total Project Cost:	\$ 1,500,000			

Construction Cost Categories:				
Cost Category	Cost			
Treatment:				
Transmission & Distribution:	\$ 1,281,500			
Lead Remediation:				
Source:				
Storage:				
Purchase of Systems:				
Restructuring:				
Land Acquisition:				
Non-Categorized:				
Total ConstructionCost:	\$ 1,281,500			
Total Sustainable Infrastructure Costs:				

Applicant Contact (AC) Information

Note: Total Sustainability Infrastructure Costs are included within construction and other costs reported in this section. This breakout is provided for SRF review purposes.

#### **Project Funding Sources:**

**Total Project Cost:** \$1,500,000 **Total Committed Funding:** \$0 Funding Gap: \$1,500,000

○ This project will be requesting SRF funding for fiscal year 2024.

#### **Estimated Project Schedule:**

Est. Environmental Review Submittal Date:

Estimated Bid Date:	06-15-2022
Estimated Construction Start Date:	07-15-2022
Estimated Construction Completeion Date:	01-11-2023

Funding Source	Loan or Grant ID	Fiscal Year	Amount	Status	Applicable Date
KIA SRF Fund F Loan (DW)	F17-052	2017	\$ 1,500,000	Expired	06-21-2016
KIA SRF Fund F Loan (DW)	F19-016	2019	\$ 1,500,000	Withdrawn	01-14-2019
Total Comitted Funding:					

#### Funding Source Notes:

#### The following systems are beneficiaries of this project:

#### ✓ KY0980575 Mountain Water District

Note: Check mark indicates primary system for this project.

#### Project Ranking by AWMPC:

Regional Ranking(s):



WX21195027 - Mountain Water District

Water Loss Prevention Program Phase I - Contract #1

Planning Unit Ranking:

Total Points:

- Plans and specs have been sent to DOW.
- Plans and specs have been reviewed by DOW.
  - O Plans and specs have been sent to PSC.
  - O Plans and specs have been reviewed by PSC.

Economic, Demographic and Geographic Impacts

# Economic Impacts

Jobs Created:	
Jobs Retained:	
40	

#### \*Demographic Impacts (GIS Census Overlay)

Servceable Demographic	Project Area	Included Systems	Included Utilities
Population:		35,094	35,092
Households:		17,453	17,453
MHI:		\$37,514	*\$37,514
MHI MOE		\$10,917	*\$10,917
MOE as Pct:		29.0%	29.0%
**NSRL:		2	2

Population and household counts are based on 2010 census block values from the SF1 (100%) dataset.

MHI Source is from the American Community Survey 2017-2021 5 Yr Estimates (Table B19013 \*(for the primary system operated by the above listed beneficiary utilities).

MHI MOE = Med HH Income Margin of Error.

\*\* NSRL (Non-Standard Rate Levels):

- 0 = Income above Kentucky MHI (KMHI).
- 1 = Income between 80% KMHI and KMHI.
- 2 = Income less than or equal to 80% KMHI.
- KMHI = \$55,454
- 80% KHMI = \$44,363

# New CustomersNew Residential Customers:New Commercial Customers:New Institutional Customers:New Industrial Customers:

New or Improved Service					
Service Demographic	Survey Based	Census Overlay*			
To Unserved Households:					
To Underserved Households:	16,066				
To Total Households:	16,066				
** Cost Per Household:	\$9	93			

\* GIS Census block overlay figures are estimates of population and households potentially served by systems and projects based on a proximity analysis of relevant service lines to census block boundaries.

\*\* Cost per household is based on surveyed household counts, not GIS overlay values.

Geographic Impacts For Project Area					
Counties					
Pike					
Legis	Legislative Districts				
District Name	Legislator				
House 092	John Blanton				
House 094	Jacob Justice				
House 097	Bobby McCool				
Senate 31	Phillip Wheeler				
Congressional 5	Hal Rogers				

Groundwater Sensitivity Zones

# HUC 10 Watersheds

HUC Code	Watershed Name
0507020103	Knox Creek-Tug Fork
0507020105	Wolf Creek-Tug Fork
0507020202	Fishtrap Lake-Levisa Fork
0507020206	Shelby Creek
0507020207	Russell Fork-Levisa Fork

#### Counties Letcher Pike **Legislative Districts District Name** Legislator House 092 John Blanton House 094 Jacob Justice House 095 Ashley Tackett Laferty House 097 Bobby McCool Senate 29 Johnnie Turner Senate 31 **Phillip Wheeler** Hal Rogers Congressional 5

Geographic Impacts For Included System(s)



#### **DW Specific Impacts**

- This project relates to a public health emergency.
- O This project will assist a non-compliant system to achieve compliance.
- O This project will assist a compliant system to meet future requirements.
- O This project will provide assistance not compliance related.
- O This project is necessary to achieve full or partial compliance with a court order, agreed order, or a judicial or administrative consent decree.
- 🔘 Primary system has not received any SDWA Notices of Violation within the previous state fiscal year-July through June, i.e. July 2014 June 2015).
- Primary system has had an action level exceedance (lead concentrations exceed an action level of 15 ppb in more than 10% of customer taps sampled) within the last compliance period.
- Primary system has received a lead trigger level exceedance (lead concentrations exceed a trigger level of 10 ppb in more than 10% of customer taps sampled) within the last compliance period.

#### Project Readiness - Lead Inventory and Lead Service Line Replacement:

#### Lead Service Line Inventory:

A description of goals to be achieved and products to be created (e.g., electronic or GIS database; customer communication tools) when creating a lead service line inventory procedure, including a proposed timeline for achieving each goal.

#### Lead Service Line Replacement:

- A strategy for informing customers before a LSLR and a template for an agreement with the private property owner to replace the LSL.
- A process for documenting all property owners declining replacement of privately owned portion of LSL.
- A procedure for customers to flush service lines and premise plumbing of particulate lead.
- A proposed plan for conducting LSL replacement utilizing all requested funding.
- A funding strategy for conducting LSLRs utilizing all requested funding.

Project Components - Mapped Point Features							
DOW Permit ID	Count	FeatureType	Purpose	Status	Existing Capacity	Proposed Capacity	Units
KY0980575	26	SCADA	ENERGY EFF - SCADA	NEW			EA

#### Administrative Components:

🗸 Planning

🔘 Design

Management

#### **Regionalization Components and Eliminated Systems/Plants:**

#### Public Water Systems Eliminated:

This project includes the elimination of public water system(s) through merger or acquisition.

Construction

#### Water Treatment Plants Eliminated:

O This project includes the elimination of water treatment plant(s).

#### Supplementation of Raw Water Supply:

O This project includes supplementing the existing raw water supply.

#### Supplementation of Potable Water Supply:

O This project includes supplementing the existing potable water supply.

#### Supplementation of Emergency Water Supply:

This project includes supplementing the existing emergency water supply.

#### Water Source Protection

O This project will preventatively address PFAS or other emerging contaminants of the source water.



WX21195027 - Mountain Water District Water Loss Prevention Program Phase I – Contract #1

 $\bigcirc$  This project will address current PFAS or other emerging contaminants of the source water.

 $\bigcirc$  This project rehabilitates a water source dam or reservior.

○ This project includes land acquisition for water source protection.

#### Water Treatment Components

O This project includes water treatment components.

#### Water Distribution and Storage Components:

O This project includes water distribution and/or storage components.

#### Sustainable Infrastructure - Green Infrastructure:

Green stormwater infrastructure includes a wide array of practices at multiple scales that manage wet weather and that maintains and restores natural hydrology by infiltrating, evapotranspiring and harvesting and using stormwater. On a regional scale, green infrastructure is the preservation and restoration of natural landscape features, such as forests, floodplains, and wetlands, coupled with policies such as infill and redevelopment that reduce overall imperviousness in a watershed. On the local scale, green infrastructure consists of site and neighborhood-specific practices, such as:

	Component	Cost
Bioretention		
Trees		
Green Roofs		
Permeable Pavement		
Cisterns		
	Total Green Infrastruc	ture Cost: \$0

There are no Green Infrastructure components specified for this project.



#### Water Loss Prevention Program Phase I - Contract #1

#### Sustainable Infrastructure - Water Efficiency:

The use of improved technologies and practices to deliver equal or better services with less water. Water efficiency encompasses conservation and reuse efforts, as well as water loss reduction and prevention, to protect water resources for the future. Examples include:

	Component	Cost
	Installing or retrofitting water efficient devices such as plumbing fixtures and appliances (toilets, showerheads, urinals).	
	Installing any type of water meter in previously unmetered areas (can include backflow prevention if in conjunction with meter replacement).	
	Replacing existing broken/malfunctioning water meters with AMR or smart meters, meters with leak detection, backflow prevention.	
	Retrofitting/adding AMR capabilities or leak equipment to existing meters.	
×	Conducting water utility audits, leak detection studies, and water use efficiency baseline studies, which are reasonably expected to result in a capital project or in a reduction in demand to alleviate the need for additional capital investment.	\$218,500
	Developing conservation plans/programs reasonable expected to result in a water conserving capital project or in a reduction in demand to alleviate the need for capital investment.	
	Recycling and water reuse projects that replace potable sources with non-potable sources (Gray water, condensate, and wastewater effluent reuse systems, extra treatment or distribution costs associated with water reuse).	
	Retrofit or replacement of existing landscape irrigation systems to more efficient landscape irrigation systems.	
	Water meter replacement with traditional water meters.*	
	Distribution pipe replacement or rehabilitation to reduce water loss and prevent water main breaks.*	
	Storage tank replacement/rehabilitation to reduce water loss.*	
	New water efficient landscape irrigation system, where there currently is not one.*	
	Total Water Efficiency Cost:	\$218,500
	* Indicates a business case may be required for this item.	
	This project will help determine water loss	
Su	stainable Infrastructure - Energy Efficiency:	
	Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water projects, energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:	use
	Component	Cost
	Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.	
	Utility-owned or publicly-owned renewable energy projects.	
	Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.	
	Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*	
	Pump refurbishment to optimize pump efficiency.*	
	Projects that result from an energy efficient related assessment.*	
	Projects that cost effectively eliminate pumps or pumping stations.*	
	Projects that achieve the remaining increments of energy efficiency in a system that is already very efficient.*	
	Upgrade of lighting to energy efficient sources.*	
	Automated and remote control systems (SCADA) that achieve substantial energy savings.*	
	Total Energy Efficiency Cost:	\$0

\* Indicates a business case may be required for this item.

There are no Energy Efficiency components specified for this project.



Water Loss Prevention Program Phase I - Contract #1

#### Sustainable Infrastructure - Environmentally Innovative:

Environmentally innovative projects include those that demonstrate new and/or innovative approaches to delivering services or managing water resources in a more sustainable way. Examples include:

Component	Cost
Total integrated water resources management planning, or other planning framework where project life cycle costs are minimized, which enables communities to adopt more efficient and cost-effective infrastructure solutions.	
Plans to improve water quantity and quality associated with water system technical, financial, and managerial capacity.	
Source water protection planning (delineation, monitoring, modeling).	
Planning activities to prepare for adaptation to the long-term effects of climate change and/or extreme weather.	
Utility sustainability plan consistent with EPA's sustainability policy.	
Greenhouse gas inventory or mitigation plan and submission of a GHG inventory to a registry as long as it is being done for an SRF eligible facility.	
Construction of US Building Council LEED certified buildings, or renovation of an existing building.	
Projects that significantly reduce or eliminate the use of chemicals in water treatment.*	
Treatment technologies or approaches that significantly reduce the volume of residuals, minimize the generation of residuals, or lower the amount of chemicals in the residuals.*	
Trenchless or low impact construction technology.*	
Using recycled materials or re-using materials on-site.*	
Educational activities and demonstration projects for water or energy efficiency (such as rain gardens).*	
Projects that achieve the goals/objectives of utility asset management plans.*	
Total Environmentally Innovative Cost:	\$0
* Indicates a business case may be required for this item.	

There are no Environmentally Innovative components specified for this project.

#### Sustainable Infrastructure - Asset Management:

If a category is selected, the applicant must provide proof to substantiate claims. The documents must be submitted to Anshu Singh (Anshu.Singh@ky.gov) for CW projects

#### Component

Last Rate Adjustment Date: 12-11-2022 Download Fee Schedule

Rate Adjustment Age: 13 months

System's monthly water bill, based on 4,000 gallons, as a percentage of MHI: 1.32%

The system(s) has an Asset Management Plan (AMP).

The system(s) involved in this project have specifically allocated funds for the rehabilitation and replacement of aging and deteriorating infrastructure.

Project Status: Approved

Date Approved: 12-04-2015

Date Revised:

Print Date:9/7/2023