



Drinking Water Project Profile

Legal Applicant:	Magoffin County Water District		
Project Title:	Magoffin County Water District - Lead Service Line Inventory		
Project Number:	WX21153041	View Map	Submitted By: BSADD
Funding Status:	Not Funded		Primary County: Magoffin
Project Status:	Approved		Planning Unit: Magoffin
Project Schedule:	0-2 Years		Multi-County: No
E-Clearinghouse SAI:	KY202312041753		ECH Status: Approved
Applicant Entity Type:	Water District (KRS 74)		ADD WMC Contact: Matt Scofield
Date Approved (AWMPC):	12-15-2022		

Project Description:

This project is for the Utility to conduct a Lead Service Line Inventory as required under 40 CFR 141.84. This project consists of a system wide Lead Service Line (LSL) Inventory. This shall include a comprehensive inventory of each service connection within the system to determine the service line material on both sides of the meter.

Magoffin County Water District is located in Magoffin County, Kentucky which has a median household income (MHI) of \$31,333 which is 57% of the state of Kentucky's MHI of \$55,454.

Customer outreach and engagement will be thorough to maximize cost effectiveness and public education about the project. First, mailing a survey to each service address for customers to fill out describing their service line information; second, send a team to knock on doors and complete inspections on any exposed service lines for any remaining "unknown" lines; third, send a team to complete inspections using electrical resistance measurement for any remaining "unknown" lines; fourth, send a team to hydro excavate on either side of the meter to inspect the service lines for any remaining "unknown" lines.

Scope of Work: The timeline for the customer engagements and inspections is six to twelve months from the time of award or with a deadline no later than July 31, 2024.

The inventory process will utilize ARCGIS to assist with inventory development, record-keeping, and submission of required documentation to regulatory agencies. A combination of ArcGIS and Excel spreadsheets will be used to submit the LSL Inventory to DOW. The inventory process will include record review, creation of digital/electronic service line inventory procedures, creation of GIS methods for documenting service line materials, incorporation of vacuum or hydro excavation procedures, and the employment of sub-contractors to conduct field work related to the service line inventory when necessary, and Creating or instituting emerging technologies and methods and using Statistical Analysis when necessary. The inventory process will also utilize esri dashboards created by Kentucky Rural Water Association for SL inventories.

Scope of Work: The timeline for inventory data analysis, processing and preparation for submittal of the inventory is three to six months from the end of data collection or with a deadline no later than September 30, 2024.

The project will allow the Utility to contract an engineer or consulting firm to conduct the inventory for them as the utility does not have the available manpower to do so themselves. District personnel and contract labor will be utilized to complete the inventory via the following methods: previous materials evaluation, installation date after lead ban use, installation records, distribution inspection records, historical repair record, field verification during routine work, field verification by visual inspection at meter box, and field verification by excavation.

The project will also provide the purchase of a GPS unit and a tablet to allow the system to document lead service lines if any are found in the system. Upon completion of the LSL Inventory, the Utility will identify projects as necessary to replace any identified lead and/or copper components in the system.

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:

The new Lead and Copper Rule Revisions which became effective December 16, 2021, require systems to conduct an inventory of the service lines in their distribution system to determine if lead is present. These inventories must be completed by October 16, 2024. Magoffin Water District is a small system located in Magoffin County, KY with a poverty level of 30.9%. The County has been listed as economically distressed by various federal agencies. The system does not have the staff or resources to conduct this inventory without assistance.

Project Alternatives:

Alternate A:

Do not perform lead service line inventory by October 16, 2024 and become out of compliance with the effective rule.

Alternate B:

Increase total project cost to hire staff to dedicate to this inventory and then lay them off once completed.



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Legal Applicant:

Entity Type: **Water District (KRS 74)**

PSC Group ID: **24600**

Entity Name: **Magoffin County Water District**

Web URL:

Office EMail: **mcounty_water@yahoo.com**

Office Phone: **606-349-6812**

Toll Free:

Fax: **606-349-6814**

Mail Address Line 1: **PO Box 490**

Phys Address Line 1: **870 Parkway Dr**

Mail Address Line 2:

Phys Address Line 2:

Mail City, State Zip: **Salyersville, KY 41465**

Phys City, State Zip: **Salyersville, KY 41465**

Contact: **Dwayne Arnett**

Financial Contact:

Auth Official: **Grover Roark**

Contact Title: **Manager**

Financial Contact Title:

Auth Official Title: **Chairperson**

Contact EMail: **darnett.mcwd@gmail.com**

Financial Contact EMail:

Auth Official EMail:

Contact Phone: **606-349-6812**

Financial Contact Phone:

Auth Official Phone: **606-349-6812**

Data Source: **Kentucky Infrastructure Authority**

Date Last Modified: 03.18.2024

Project Administrator (PA) Information

Name: **Matt Scofield**

Title: **Water Management Coordinator**

Organization: **Big Sandy Area Development District**

Address Line 1: **110 Resource Ct**

Address Line 2:

City: **Prestonsburg** State: **KY** Zip: **41653**

Phone: **606-886-2374** Fax:

Applicant Contact (AC) Information

Name: **Matt Scofield**

Title: **Water Management Coordinator**

Organization: **Big Sandy Area Development District**

Address Line 1: **110 Resource Ct**

Address Line 2:

City: **Prestonsburg** State: **KY** Zip: **41653**

Phone: **606-886-2374** Fax:

Project Engineer (PE) Information:

This project requires a licensed Professional Engineer.

PE Exemption Explanation:

This project can be managed by water district

Estimated Budget

Project Cost Categories:

Cost Category	Cost
Administrative Expenses:	\$ 14,000
Legal Expenses:	
Land, Appraisals, Easements:	
Relocation Expenses & Repayments:	
Planning:	
Engineering Fees - Design:	
Engineering Fees - Construction:	
Engineering Fees - Inspection:	
Engineering Fees - Other:	
Construction:	\$ 280,000
Equipment:	
Miscellaneous:	
Contingencies:	
Total Project Cost:	\$ 294,000

Construction Cost Categories:

Cost Category	Cost
Treatment:	
Transmission & Distribution:	
Lead Remediation:	280000
Source:	
Storage:	
Purchase of Systems:	
Restructuring:	
Land Acquisition:	
Non-Categorized:	
Total Construction Cost:	\$ 280,000
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.



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Project Funding Sources:

Total Project Cost: **\$ 294,000**
 Total Committed Funding: **\$ 0**
 Funding Gap: **\$ 294,000**

This project will be requesting SRF funding for fiscal year 2027.

Estimated Project Schedule:

Est. Environmental Review Submittal Date: **07-01-2023**
 Estimated Bid Date: **08-01-2023**
 Estimated Construction Start Date: **09-01-2023**
 Estimated Construction Completion Date: **10-16-2024**

Funding Source	Loan or Grant ID	Fiscal Year	Amount	Status	Applicable Date
KIA SRF Fund F Loan (DW)	F24-025	2024	\$ 294,000	Expired	06-12-2023
KIA SRF Fund F Loan (DW) - Lead Service Lines	F24-025L	2024	\$ 294,000	Expired	06-12-2023
Total Comitted Funding:					

Funding Source Notes:

The following systems are beneficiaries of this project:

KY0770525 Magoffin County Water District

Note: Check mark indicates primary system for this project.

Project Ranking by AWMPC:

Regional Ranking(s): _____ Plans and specs have been sent to DOW.
 Planning Unit Ranking: _____ Plans and specs have been reviewed by DOW.
 Total Points: _____ Plans and specs have been sent to PSC.
 _____ Plans and specs have been reviewed by PSC.

Economic, Demographic and Geographic Impacts

Economic Impacts	
Jobs Created:	
Jobs Retained:	

*Demographic Impacts (GIS Census Overlay)			
Servceable Demographic	Project Area	Included Systems	Included Utilities
Population:		9,428	9,428
Households:		4,353	4,353
MHI:		\$34,977	*\$34,977
MHI MOE		\$12,486	*\$12,486
MOE as Pct:		36.0%	36.0%
**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 2019-2023 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 = \$62,417
- 80% KHMI = \$49,934

Geographic Impacts For Project Area	
Counties	
Magoffin	
Legislative Districts	
District Name	Legislator
House 092	John Blanton
Senate 30	Brandon Smith
Congressional 5	Hal Rogers
Groundwater Sensitivity Zones	
HUC 10 Watersheds	
HUC Code	Watershed Name
0510010101	Headwaters Licking River

Geographic Impacts For Included System(s)	
Counties	
Floyd	
Johnson	
Magoffin	
Morgan	
Legislative Districts	
District Name	Legislator
House 092	John Blanton
House 095	Ashley Tackett Laferty
House 097	Bobby McCool
House 099	Richard White
Senate 29	Scott Madon
Senate 30	Brandon Smith
Senate 31	Phillip Wheeler
Congressional 5	Hal Rogers

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



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New or Improved Service		
Service Demographic	Survey Based	Census Overlay*
To Unserved Households:		
To Underserved Households:		
To Total Households:		
** Cost Per Household:		

* 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.

DW Specific Impacts

- This project relates to a public health emergency.
- This project will assist a non-compliant system to achieve compliance.
- This project will assist a compliant system to meet future requirements.
- This project will provide assistance not compliance related.
- 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
KY0770525	1	LSL	INVENTORY				EA

Administrative Components:

- Planning
 Design
 Construction
 Management

Audits on Record Associated With Applicant

Audit Year	Entity Name	Entity Relationship
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Regionalization Components and Eliminated Systems/Plants:



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Public Water Systems Eliminated:

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

Water Treatment Plants Eliminated:

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

Supplementation of Raw Water Supply:

This project includes supplementing the existing raw water supply.

Supplementation of Potable Water Supply:

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

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

Water Treatment Components

This project includes water treatment components.

Water Distribution and Storage Components:

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
<input type="checkbox"/> Bioretention	\$0
<input type="checkbox"/> Trees	\$0
<input type="checkbox"/> Green Roofs	\$0
<input type="checkbox"/> Permeable Pavement	\$0
<input type="checkbox"/> Cisterns	\$0
Total Green Infrastructure Cost:	\$0

There are no Green Infrastructure components specified for this project.



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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
<input type="checkbox"/> Installing or retrofitting water efficient devices such as plumbing fixtures and appliances (toilets, showerheads, urinals).	\$0
<input type="checkbox"/> Installing any type of water meter in previously unmetered areas (can include backflow prevention if in conjunction with meter replacement).	\$0
<input type="checkbox"/> Replacing existing broken/malfunctioning water meters with AMR or smart meters, meters with leak detection, backflow prevention.	\$0
<input type="checkbox"/> Retrofitting/adding AMR capabilities or leak equipment to existing meters.	\$0
<input type="checkbox"/> 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
<input type="checkbox"/> 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
<input type="checkbox"/> 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
<input type="checkbox"/> Retrofit or replacement of existing landscape irrigation systems to more efficient landscape irrigation systems.	\$0
<input type="checkbox"/> Water meter replacement with traditional water meters.*	\$0
<input type="checkbox"/> Distribution pipe replacement or rehabilitation to reduce water loss and prevent water main breaks.*	\$0
<input type="checkbox"/> Storage tank replacement/rehabilitation to reduce water loss.*	\$0
<input type="checkbox"/> 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.

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
<input type="checkbox"/> 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
<input type="checkbox"/> Utility-owned or publicly-owned renewable energy projects.	\$0
<input type="checkbox"/> Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.	\$0
<input type="checkbox"/> Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs)).*	\$0
<input type="checkbox"/> Pump refurbishment to optimize pump efficiency.*	\$0
<input type="checkbox"/> Projects that result from an energy efficient related assessment.*	\$0
<input type="checkbox"/> Projects that cost effectively eliminate pumps or pumping stations.*	\$0
<input type="checkbox"/> Projects that achieve the remaining increments of energy efficiency in a system that is already very efficient.*	\$0
<input type="checkbox"/> Upgrade of lighting to energy efficient sources.*	\$0
<input type="checkbox"/> 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.



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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
<input type="checkbox"/> 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
<input type="checkbox"/> Plans to improve water quantity and quality associated with water system technical, financial, and managerial capacity.	\$0
<input type="checkbox"/> Source water protection planning (delineation, monitoring, modeling).	\$0
<input type="checkbox"/> Planning activities to prepare for adaptation to the long-term effects of climate change and/or extreme weather.	\$0
<input type="checkbox"/> Utility sustainability plan consistent with EPA's sustainability policy.	\$0
<input type="checkbox"/> 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
<input type="checkbox"/> Construction of US Building Council LEED certified buildings, or renovation of an existing building.	\$0
<input type="checkbox"/> Projects that significantly reduce or eliminate the use of chemicals in water treatment.*	\$0
<input type="checkbox"/> 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
<input type="checkbox"/> Trenchless or low impact construction technology.*	\$0
<input type="checkbox"/> Using recycled materials or re-using materials on-site.*	\$0
<input type="checkbox"/> Educational activities and demonstration projects for water or energy efficiency (such as rain gardens).*	\$0
<input type="checkbox"/> 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.

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: **09-17-2019** [Download Fee Schedule](#)

Rate Adjustment Age: **76 months**

System's monthly water bill, based on 4,000 gallons, as a percentage of MHI: **1.28%**

- 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: 12-15-2022

Date Revised: