

Commonwealth of Kentucky
 Energy and Environment Cabinet
Division of Water

**Construction Application
 For Drinking Water Distribution**

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

I. Construction Project Information

Project Name: Phase 11-2 - Water Line Extensions & Replacements and 300,000 Gallon WST
 Project County: Adair Estimated Project Cost: \$ 2,000,000
 Project Latitude/Longitude (DMS): Varying across Adair County 37°04'40"N / 85°18'49"W
 11 Digit Hydrologic Unit Code (HUC): 05110001070: Russell Branch, 05130103180: Crocus Creek, 05110001020: Green River, near Green River Lake

Is this a federally funded project: **NO**

- DWSRF
- SPAP
- Other: _____

If yes, has an Environmental Information Document been reviewed and approved? _____

If the project has been submitted to the State Clearinghouse for review, provide the SAI number: _____

Identify all other funding sources: Kentucky Infrastructure Authority

Does the project contain any of the following:

- Booster Pump Stations
- Water Storage Tanks
- Waterlines

Waterline Material	Waterline Size	Linear Feet
PVC SDR-21	8 - Inch	21,200
PVC SDR-17	4 - Inch	14,000
Ductile Iron	4 - Inch	10,200
PVC SDR-17	3 - Inch	1,900

Provide a brief description of the work to be performed for waterlines less than 10,000 linear feet. All other distribution projects should be accompanied by a DETAILED project description. The project will expand and/or extend water service in two areas of the county. The project consists of approximately 21,200 LF of 8-Inch PVC water line, approximately 14,000 LF of 4-Inch PVC water line, approximately 10,200 LF of 4-inch Ductile Iron water line, and approximately 1,900 LF of 3-inch PVC water line.

Identify how the sanitary wastewater produced as a result of this project will be handled:

- Sanitary Sewer WWTP: _____
- Septic Tank
- Other: _____

II. Utility Information

Utility Name: Columbia/Adair Utilities District PWSID: 0010702 AI#33767
 Street Address: P.O. Box 567, 109 Grant Lane County: Adair
 City, State, Zip: Columbia, KY 42728
 Phone: (270) 384-2181 Fax: (270) 384-3437 Email: lenny.stone@caud.net

If another utility will serve any portion of the proposed project, provide the name and PWSID No.

Utility Name: _____ PWSID No. _____

If the utility serving the project purchases water from another utility, provide the name and PWSID No. and purchase contract amount.

- Utility Name: _____ PWSID No. _____ Purchase Contract Amount: _____
- Utility Name: _____ PWSID No. _____ Purchase Contract Amount: _____
- Utility Name: _____ PWSID No. _____ Purchase Contract Amount: _____

Is the system currently under any type of waterline or sewer sanctions? _____

If yes, submit an exception request and attach supporting documentation to justify its approval.

III. Design Considerations

A. Plans and Specifications

Provide at least 3 sets of detailed plans and specifications (no larger than 24" X 36") which must comply with 401 KAR 8:100 and "Recommended Standards for Water Works" (Ten States' Standards). All plans must contain a P.E. seal, signature and date of signature with at least one set having an original seal and signature.

B. Design Engineer David Bowles, P.E.

Name: _____ & Deron S. Byrne, P.E Firm: Monarch Engineering Inc.
 Street Address: 556 Carlton Drive
 City, State, Zip: Lawrenceburg, KY 40342
 Phone #: (502) 839-1310 Fax #: (502) 839-1373 Email: dbowles@monarchengineering.net
dbyrne@monarchengineering.net

C. Design Capacities

Identify the number of new connections and the projected average daily demand: 14 new customers @ 250 GPD = 3500 GPD

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

N/A

Identify the number of connections in the service area: N/A

Other Information to be Submitted with the Project

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

IV. Environmental Benefits

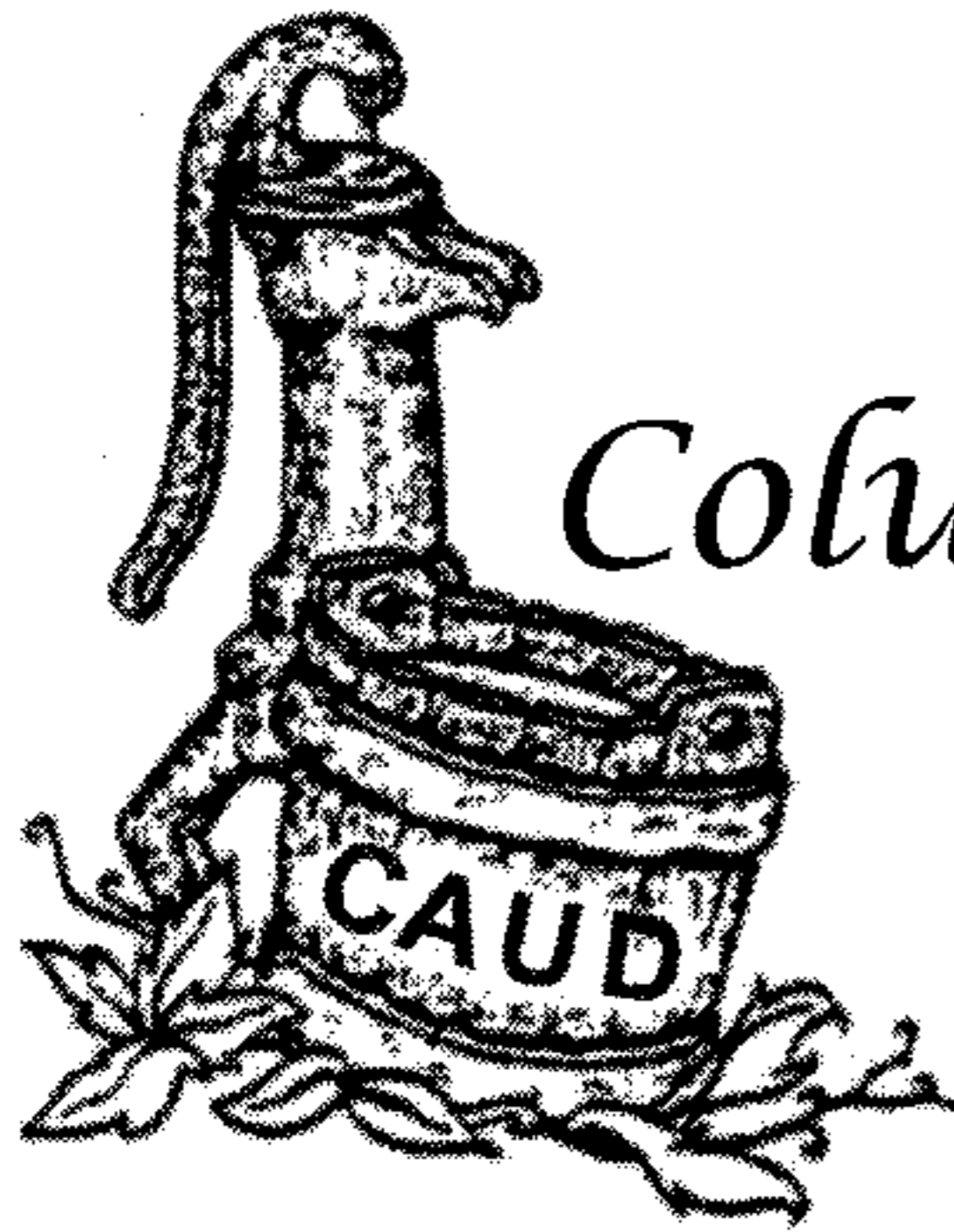
Identify the environmental benefit(s) of the project by checking all that apply.

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

V. Fees

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

Project Category: Municipality Total Amount: \$ 0.00



Columbia/Adair Utilities District

109 Grant Lane - P.O. Box 567

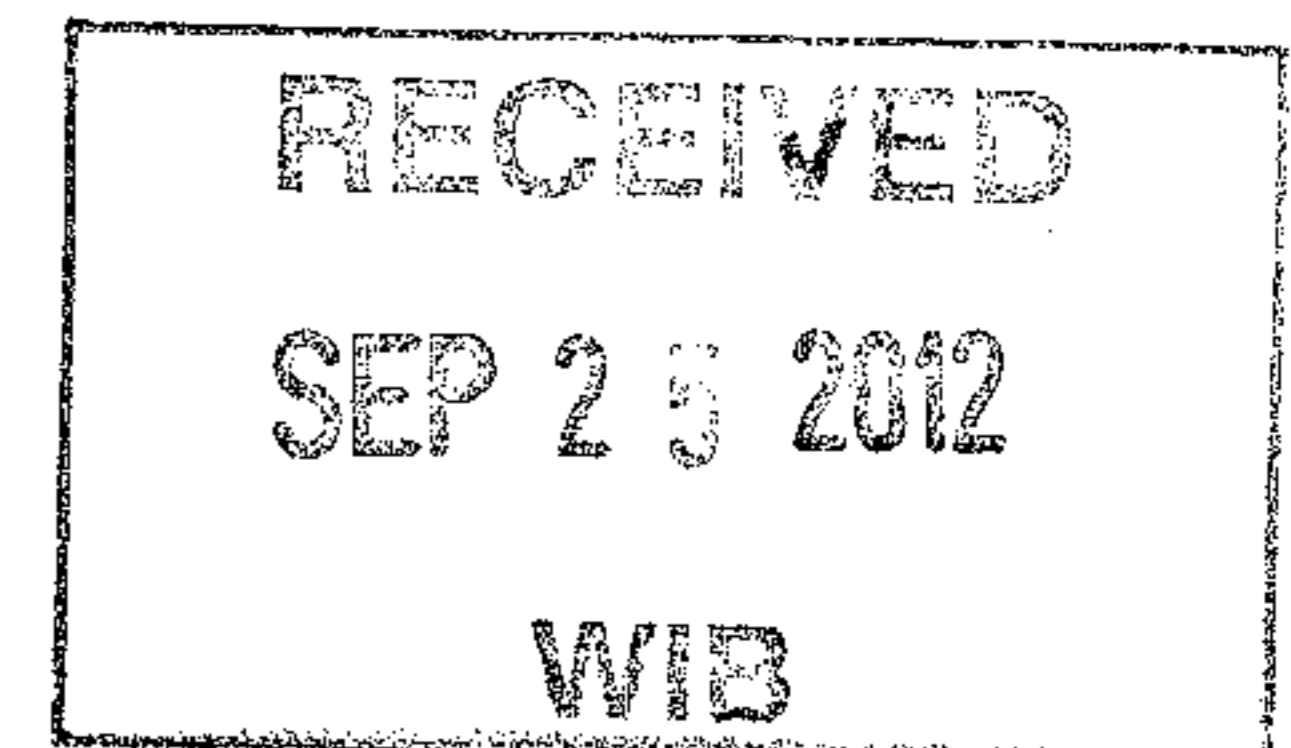
Columbia, KY 42728

Phone (270) 384-2181 - Fax (270) 384-3437

E-Mail utility@caud.net

Website www.caud.net

0010702-12-001



September 21, 2012

Ms. Sandy Gruzesky
Kentucky Division of Water
200 Fair Oaks Lane
Frankfort, Kentucky 40601

33767APE20120001

Re: Phase 11-2 Water Line Extensions & Water Storage Tank Replacement
Columbia/Adair Utilities District
Adair County, Kentucky

Dear Ms. Gruzesky:

Please find enclosed three (3) sets of plans and technical specifications (two hard copies and one copy on CD) for the above referenced project. The proposed project consists of the installation of approximately 10,500 linear feet of 8-inch PVC water line, 13,000 linear feet of 6-inch PVC water line, 24,300 linear feet of 4-inch Ductile Iron and PVC water line, 1,900 linear feet of 3-inch PVC water line, a booster pump station, and a new 300,000 gallon elevated water storage tank to replace an existing 65,000 gallon ground water storage tank.

The project will work to improve the District's service and storage capabilities in the southeastern portion of Adair County. The planned improvements will greatly advance the overall system capacity and pressure throughout this region. Approximately 14 new customers and 25 existing reconnected customers are expected as a result of this project. We the District have reviewed the plans and specifications and concur with the design of the water system improvements. We willingly accept responsibility for the maintenance of the planned water system improvements. The design and construction cost estimate for this project is approximately \$2,000,000. Should you need additional information, please do not hesitate to contact Deron S. Byrne, P.E or David Bowles, P.E. with Monarch Engineering Inc. at (502) 839-1310 or myself.

Sincerely,

Lennon Stone

Lennon Stone
General Manager

LS/dsb