



west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street, SE
Charleston, WV 25304
Phone: 304-926-0495 / Fax: 304-926-0463

Harold D. Ward, Cabinet Secretary
dep.wv.gov

MEMORANDUM

To: Marie Prezioso, Chair
Meredith J. Vance, Director, Environmental Engineering Division, BPH

From: Katheryn Emery, P.E. Engineer Chief
Sewer Technical Review Committee

Date: December 12, 2024

Subject: City of Pennsboro
IJDC Application - 2024W-2630
Bonds Creek - Highland Road Waterline Extension Project

-
1. This committee has reviewed the preliminary application and engineering report submitted for the above referenced project in accordance with Chapter 31, Article 15A. It has been determined that the proposed project is:
 - a. Consistent with the intent of the Infrastructure and Jobs Development Act and is the most cost-effective, environmentally sound alternative for solving the water needs in this area.
 - b. Not consistent with the Act and may not be the most cost effective, environmentally sound alternative for solving the wastewater needs in this area.
 - c. Same as (a) above except that certain issues need to be addressed prior to design and construction as the attached comments indicate.
 2. Our recommendation is that:
 - a. The Funding Committee needs to review the proposed sources of funding to determine the best mix of grant and/or loan funds in accordance with applicable guidelines.
 - b. The Funding Committee should recommend that the Council approve the proposed project and its funding plan.

- c. The Funding Committee does not need to review the funding assumptions on this project because of deficiencies in the engineering report. The proposed project should be tabled for the consultant to address technical comments.
- d. This project should be referred to the Consolidation Committee.

3. Other remarks:

The proposed project should be tabled until the next funding committee meeting to allow time for the PSC and DEP to discuss questions/concerns with the applicant.

This project will extend public water service to approximately 70 new residential customers that live in the Bonds Creek and Highland Road area of Ritchie County. An interconnect with the Town of Ellenboro's proposed extension will also be completed. Currently the existing homes rely on private wells that have been tested that included concentrations of lead and arsenic.

The proposed total cost for this project is \$7,150,000 and Pennsboro intends to pursue a \$7,120,000 WDA Economic Enhancement Grant Fund, and a \$30,000 Ritchie County Commission Grant.

Using the Combined Application, the Total Engineering Fee and the Design Fee appear to be within the ASCE curve.

Preliminary Project Ratings:

Public Health Benefits: 15
Compliance with Standards: 5



west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street SE
Charleston, WV 25304
Phone: 304-926-0495 / Fax: 304-926-0463

Harold D. Ward, Cabinet Secretary
dep.wv.gov

MEMORANDUM

TO: Katheryn Emery, P.E., Engineer Chief, DWWM

FROM: Jesse Rupe, P.E., DWWM

DATE: December 5, 2024

SUBJECT: City of Pennsboro
IJDC Application - 2024W-2630
Bonds Creek - Highland Road Waterline Extension Project

RECOMMENDATION

The IJDC Application and Preliminary Engineering Report prepared by The Thrasher Group, Inc. for the above referenced project has been reviewed and it is suggested to table this application till the January 2025 Funding meeting.

PROJECT DESCRIPTION

The City of Pennsboro operates a water distribution system under (PWSID # 3304306) in Ritchie County, West Virginia. Pennsboro provides drinking water to approximately 616 total customers, including one resale customer. The distribution system includes 3 water storage tanks and has a total storage capacity of 960,000 gallons. The Hughes River Water Board water treatment plant (WTP) has a 2.5 Million Gallon per Day (MGD) capacity.

This project proposes to extend public water service to approximately 70 new residential customers that live in the Bonds Creek and Highland Road area of Ritchie County. The proposed extension will provide water service and fire protection along Bonds Creek Road from its intersection with Pullman Drive (State Rt. 74) to the intersection with County Route 16/4, and interconnect with the end of the Town of Ellenboro's proposed extension. Construction would consist of the installation of new 6" and 8" water main lines, 2" service lines, a new 64,000 gallon storage tank, one new booster station, a new master meter at the interconnection to the proposed Ellenboro system, and 15 new fire hydrants.

The proposed total cost for this project is \$7,150,000 and Pennsboro intends to pursue a \$7,120,000 WDA Economic Enhancement Grant Fund, and a \$30,000 Ritchie County Commission Grant. The proposed monthly rate for 3,400 gallons is \$60.48 (1.74% MHI).

NEED FOR PROJECT

The proposed water line extension is necessary to provide residents along Highland Road and Bonds Creek Road with a reliable source of safe drinking water. All the residents that will be served by the proposed extension currently obtain potable water from private wells. The wells/cisterns serving the homes are problematic because of the unreliability of available water and lack of clean water. The majority of the wells are contaminated with heavy metals, test results from the wells show that there are large concentrations of lead and arsenic. Many residents are required to purchase and haul water to their homes in order to have an adequate supply of safe water. This project would enable the residents of these areas to have a clean and reliable source of drinking water and provide fire protections throughout the area.

DEFICIENCIES/COMMENTS

- It should be noted that Pennsboro has received petitions requesting water service from 43 of the 70 potential new customers.
- It is recommended that further sampling be conducted via BPH sampling guidelines to confirm that the contamination is located in the private wells and there isn't further contamination being introduced through the plumbing of each house.
- Using the Combined Application, the Design, and Total Engineering Fees appear to be within the ASCE Curves.

Preliminary Project Ratings:

Public Health Benefits: 15
Compliance with Standards: 5