



west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street, SE
Charleston, WV 25304
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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: April 22, 2025

Subject: Mason County PSD
IJDC Application - 2022W-2654
North Water System Hydraulic Study

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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.

Promoting a healthy environment.

- 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:

After discussions with the Consulting Engineer, this project should be tabled to the next funding committee meeting to further evaluate funding eligibility and sources.



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MEMORANDUM

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

FROM: Tyler Barrett, DWWM

DATE: April 10, 2025

SUBJECT: Mason County PSD
IJDC Application - 2022W-2264
North Water System Hydraulic Study

RECOMMENDATION

The IJDC Application and Preliminary Engineering Report prepared by The Thrasher Group, Inc. for the above referenced project has been reviewed and is recommended to be tabled to the next funding committee meeting.

PROJECT DESCRIPTION

The Mason County Public Service District (District) is a Class A water utility serving 6,021 residential customers throughout Mason County and portions of Cabell, Jackson, and Putnam Counties, West Virginia (PWSID WV3302712). The District also supplies water to the West Virginia American Water Company (resale customer), the Gallipolis Ferry Water Association, Inc. (resale customer), 31 public authorities, and 142 commercial locations.

The District owns and operates seven (7) water distribution systems: Lakin, Ashton, Letart, Crab Creek, Foglesong, Camp Conley, and J2Y35. Some of these systems are interconnected with one another, allowing water to be exchanged between them. Between these seven (7) systems, the District owns and operates 23 storage tanks with a combined capacity of 3,926,000 gallons, approximately 521 miles of water mains of various sizes, 22 booster stations, and four (4) WTPs: Crab Creek, Lakin, Ashton, and Letart.

This project will extend service to fifty (50) new customers. It is proposed to install approximately 5,900 LF of 4" PVC water line to expand the Foglesong Road Water System, connect it to the main system, and be served by Lakin WTP. It also proposes to replace the

existing 260 GPM pumps at the West Columbia Booster Pump Station with new 400 GPM pumps. Lastly, it is proposed to rehabilitate the existing Lakin water storage tank and add a new telemetry unit, as well as construct a new 177,000-gallon storage tank with necessary piping and valves.

The proposed total cost for this project is \$3,355,000 and the District intends to pursue a \$3,305,000 DWTRF loan and a \$50,000 Mason County Commission Grant. The proposed monthly rate for 3,400 gallons for the District's Lakin service areas would be \$47.77 (1.65%).

NEED FOR PROJECT

The Foglesong Road section of the Mason County PSD system currently is not connected to the main water system, thus requiring the Mason County PSD to purchase water from the Town of Mason. This incurs extra monthly costs for the PSD and prevents potential customers from utilizing the system. In addition, development is expected to come to Mason County as a result of major projects like the Nucor Steel Mill and Fidelis Hydrogen Plant. The existing Mason County PSD distribution system is inadequate to serve the upcoming development. Three areas of immediate concern are addressed in this proposed project.

The West Columbia booster station needs to be upgraded to handle the upcoming demand of the proposed and current development of the area.

The Lakin distribution system needs increased water storage capacity. A second water storage tank (177,000 gallon) is proposed to handle current and future demand. Rehabilitation of the existing Lakin storage tank is also proposed.

DEFICIENCIES/COMMENTS

- PSD does not qualify for a 20 year loan term per IUP. Qualifies for 21-30 year term.
- The project should be broken out further for funding eligibility.
- Using the Combined Application, the Design and Total Engineering Fees appear to be within the ASCE Curves.

Preliminary Project Ratings:

Public Health Benefits: 5
Compliance with Standards: 5



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MEMORANDUM

MEMO TO: Meredith J. Vance
Office of Environmental Health Services
Bureau for Public Health

FROM: Brian D. Bailey *BB*
Technical Analyst
General Permits & Support Team

DATE: March 19, 2025

SUBJECT: Infrastructure Preliminary Application for the Mason County PSD (2022W-2264):
North Water System Hydraulic Study in Mason County, WV.

We have reviewed the above referenced project application information. The Mason County PSD, discharges its backwash to its site for 3 WTP's, which are covered under WV/NPDES Site Registration Nos. WVG640019, WVG640130 and WVG640135 which expire 7/18/28. The Lakin WTP discharge to Mason County PSD WWTP, WV/NPDES Permit No. WV0086886, and expires April 16, 2028. No NPDES permit modifications are required.

If the Mason County PSD is considering repairing and painting an existing water treatment plant or storage tanks, then the scope of this project requires precautions to prevent contamination of the waters of the state. Prior to beginning any removal of old paint, the Mason County PSD should contact Mr. Brad Wright or a member of his staff at (304)-926-0499, extension 49746 for guidance in determining whether the paint to be removed is considered a hazardous waste. If so, proper containment and disposal procedures must be followed for the paint and any material associated with the sandblasting. If it is determined that the paint is not hazardous, the Mason County PSD should contact John Lockhart or a member of his staff at (304)-926-0499, extension 43889 for proper disposal options.

Construction activities with a disturbed area of one (1) acre or greater are now required to register for the NPDES Storm Water Construction General Permit No. WV0115924 that became effective on April 6, 2024. Projects registered under the previous General Permit No. WV0115100 were automatically provided coverage under WV/NPDES General Permit No. WV0115924. For more information, they may contact Larry Board at (304)-926-0499, extension 43883.

In light of the above, we have no objection to this project as long as the appropriate provisions are taken to assure compliance with Chapter 22, Article 11, of the Code of West Virginia and any associated regulations. The responsible party may contact Mylinda Maddox (304) 926-0499 ext. 43825, should additional information be required.

BDB:mam

cc: Kathryn Emery