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west virginia department of environmental protection

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Division of Water and Waste Management  
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Harold Ward, Cabinet Secretary  
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**MEMORANDUM**

**TO:** Kathy Emery, P.E., Acting Director, DWWM

**FROM:** Daniel S. Bailey, E.I., CFM, DWWM

**DATE:** December 9, 2021

**SUBJECT:** Town of Hillsboro  
Preliminary Application: 2021C-132  
Critical Immediate Need/Failure  
Sanitary Sewer Lift Station Replacement

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**RECOMMENDATION**

The IJDC critical needs application, and Preliminary Engineering Report (PER), dated November 2020, prepared by The Thrasher Group for the above referenced project has been reviewed and is technically feasible.

**PROJECT DESCRIPTION**

The Town of Hillsboro (Town) owns and operates a sanitary sewer collection system, and wastewater treatment plant (WWTP) in Pocahontas County, WV, serving a total of 105 residential customers and 13 commercial customers. The Town manages approximately 20,000 LF of gravity sewer lines, a duplex lift station, and 12,800 LF of force main as well as a 2,053,000 gallon lagoon wastewater treatment plant with a capacity of 0.034 million gallons per day (MGD) discharging to the Greenbrier River. The proposed project consists of replacing the existing lift station with a new wet well and pumps. This includes replacement of the backup generator as well as construction of a new maintenance building at the lift station site.

The proposed total cost for this project is \$550,000 and the Town intends to pursue \$550,000 in IJDC Critical Need & Failing Systems Sub Account Grant. There is no proposed change in monthly rates.

## **NEED FOR PROJECT**

The application indicates that the current duplex lift station is in poor condition and past its useful design life. The station also experienced a total failure of the remaining pump. The existing pumps are beyond the age of feasible or economical repair. This station is the end collection point prior to pumping to the lagoon, serving the entire town as well as the elementary school. Failure of this station results in sewage backup for customers and/or uncontrolled discharges into streams.

## **DEFICIENCIES/COMMENTS**

- Potential floodplain and environmental impacts should be identified/addressed prior to a design moving forward.
- Timeline for permitting is quite short and should be confirmed with required regulatory/permitting agencies.

### **Engineering Fees:**

Estimated construction cost =	\$ 550,000
Consultant's design fee =	\$ 55,000
Consultant's total fee =	\$ 55,000
Design fee percentage =	10%
Design fee per ASCE curve =	13.8%
Total fee percentage =	10%
Total fee per ASCE curve =	24.2%

### **Preliminary Project Ratings:**

Public Health Benefits: 10  
Compliance with Standards: 5