



west virginia department of environmental protection

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

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

FROM: Thomas Cazad, P.E., Engineer, DWWM

DATE: December 13, 2021

SUBJECT: City of Hinton – CSO Abatement Project (Phase 1)
Preliminary Application: 2015S-1585
Funding Scenario and Scope Change Request

RECOMMENDATION

The request for changes to the proposed funding scenario and the project scope, prepared by E.L. Robinson, has been reviewed and is technically feasible.

PROJECT DESCRIPTION

The revised proposed project scope includes improvements to the City's existing combined collection system, including installation of approximately 8,000 LF of sanitary sewer lines, 4,100 LF of storm sewer lines, 49 manholes, and 44 catch basins. In addition, the existing Bellepoint pump station will be relocated and replaced, along with 250 LF of 6-inch force main. Three (3) grinder stations and 500 LF of associated force mains will also be constructed.

After the recently completed I/I Study, portions of the existing collection system located in and adjacent to the New River and the Greenbrier River were identified as significant sources of inflow and infiltration (I/I) ahead of CSO Outlets 006 and 007. The revised scope includes relocating these existing gravity lines and installing new storm sewers in the area. The project also includes the installation of three (3) grinder stations and approximately 750 LF of force mains, which will be necessary to continue serving existing customers whose service lines are currently either tied into the gravity lines situated in the rivers or directly connected into the old Bellepoint pump station. Previously, the Bellepoint pump station was only slated to receive new pumps.

As of the February 7, 2020, funding change, the project proposed to utilize an ARC grant of \$1,550,000, a SCBG of \$1,500,000, and a CWSRF loan of \$500,000 at 0% interest for 40 years for a total project cost of \$3,550,000. The revised funding package includes an ARC grant of \$1,550,000, a SCBG of \$1,500,000, a CWSRF Principal Forgiveness Loan of \$1,000,000, a CWSRF loan of \$270,000 at 1% interest for 30 years, and an IJDC District 3 Grant of \$500,000 for a total project cost of \$4,820,000. The request notes that the City has already received funding commitments from ARC and SCBG. The funding scenario includes a private bank loan of \$306,928.03, which is proposed to be incorporated into the project's long-term financing. The current monthly rate for 3,400 gallons is \$45.39 (1.76% MHI) and is not anticipated to increase with the proposed project.

NEED FOR PROJECT

The City has been implementing their Long-Term Control Plan since it was submitted to WVDEP in September of 2011. The proposed improvements seek to reduce CSO events at CSO Outlets 006 and 007, separate portions of the combined system in the Greenbrier Avenue, Riverside Drive, and Bellepoint areas of the City and reduce I/I from the system.

DEFICIENCIES/COMMENTS

- An engineering variance for the total fee may be necessary.

Engineering Fees:

Estimated construction cost =	\$ 3,740,000.00
Consultant's design fee =	\$ 250,000.00
Consultant's total fee =	\$ 730,000.00
Design fee percentage =	6.7%
Design fee per ASCE curve =	8.2%
Total fee percentage =	19.5%
Total fee per ASCE curve =	19.2%

Preliminary Project Ratings:

Public Health Benefits	15
Compliance with Standards	20