



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
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MEMORANDUM

To: Marie Prezioso, Chair
Funding Committee
Infrastructure and Jobs Development Council

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

Date: November 16, 2022

Subject: Parsons
Preliminary Application: 2021S-2006
Collection System Upgrade

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 wastewater 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 funding should be tabled until technical comments have been resolved.
- d. ___ This project should be referred to the Consolidation Committee.

3. Other remarks:

The project proposes to replace portions of the sanitary sewer system in four sections of City that are heavily contributing to the I/I that currently accounts for over 60 percent of the flow into the system.

The proposed total cost for this project is \$4,640,000 and the City intends to pursue a \$500,000 IJDC Grant, a \$1,500,000 CWSRF Debt Forgiveness Loan, a \$990,000 CWSRF Loan (3.0%, 20 yrs.), a \$1,600,000 Congressional Earmark Grant, and a \$50,000 City contribution

Attachments: Technical Comments

Engineering Fees:

Estimated construction cost =	\$ 3,100,000.00
Consultant's design fee =	\$ 225,000.00
Consultant's total fee =	\$ 597,000.00
Design fee percentage =	7.3 %
Design fee per ASCE curve =	9.0 %
Total fee percentage =	19.3 %
Total fee per ASCE curve =	19.6 %

Preliminary Project Ratings:

1. Public Health Benefits	5
3. Compliance with Standards	5
5. O & M Capabilities	3
6. Readiness to Proceed	0
8. Cost Effectiveness	0
10. Compliance with PSC Orders	0



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MEMORANDUM

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

FROM: Jesse Rupe, P.E., DWWM

DATE: November 9, 2022

SUBJECT: City of Parsons
Change of Scope and Change of Funding: IJDC No. 2021S-2006
Sanitary Sewer Improvements Project

RECOMMENDATION

The Change of Scope and Change of Funding request prepared by Region VII Planning and Development Council for the above referenced project has been reviewed and is technically feasible.

PROJECT DESCRIPTION

The City of Parsons owns and operates a combined sewer collection system and a 0.4 Million Gallon per Day (MGD) aerated lagoon wastewater treatment plant (WWTP). The City's combined collection system also contains five combined sewer overflows (CSO). The City provides service to approximately 717 customers, as well as Hamrick PSD.

The proposed project involves removing and replacing existing lines in ten sections of the City's collection system, which were identified as heavily contributing to inflow and infiltration (I/I) in the City's collection system. These sections of the collection system are: Memorial Drive, River Street, Billings Avenue, Jameson Avenue, Spruce Street, First Street, Third Street, Fourth Street, Currance Street, and a line that is adjacent to Shavers Fork. This work will consist of the installation of approximately 8,500 linear feet (LF) of gravity sewer line, 3,600 LF of service lateral, 35 new manholes, and all other necessary appurtenances. This project will also include the purchase of a vacuum truck to assist in daily maintenance of the collection system.

The proposed total cost for this project is \$4,640,000 and the City intends to pursue a \$500,000 IJDC Grant, a \$1,500,000 CWSRF Debt Forgiveness Loan, a \$990,000 CWSRF Loan (2.0%, 30 yrs.), a \$1,600,000 Congressional Earmark Grant, and a \$50,000 City contribution. The proposed monthly rate for 3,400 gallons is \$47.02 (1.34 % MHI).

NEED FOR PROJECT

The City is currently experiencing excessive I/I. The influence of I/I into the sanitary sewer system is hindering the effectiveness of the WWTP and causing equipment to degrade faster. Ten areas have been identified as contributing large amounts of I/I. The areas were identified less than a year ago and while not part of the current Long Term Control Plan (LTCP), the City will incorporate the project in an updated LTCP yet to be submitted. All of these areas except for one which is a collapsed 6” PVC pipe, are terracotta and vitrified clay pipes. The proposed sanitary sewer improvements project replaces the aforementioned areas of concern to reduce the amount of I/I that is being received. By proceeding forward with the proposed project, a reduction in I/I would reduce run time on pumps, reduce treatment costs at the WWTP, and overall provide the system and equipment with a longer anticipated life.

DEFICIENCIES/COMMENTS

- The change in scope includes completion of additional work that has been made possible by the Congressional Earmark that the City has received.
- The proposed CWSRF loan terms need to be reviewed. The request is utilizing loan terms of 2% and 30 years. The terms that the City qualifies for are 3% and 20 years.
- The PER will need to be developed into a facilities plan that meets CWSRF requirements if CWSRF is used.

Engineering Fees:

Estimated construction cost =	\$ 3,100,000.00
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Consultant’s total fee =	\$ 597,000.00
Design fee percentage =	7.3 %
Design fee per ASCE curve =	9.0 %
Total fee percentage =	19.3 %
Total fee per ASCE curve =	19.6 %

Preliminary Project Ratings:

Public Health Benefits:	5
Compliance with Standards:	5