

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

guidelines.

proposed project and its funding plan.

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

MEMORANDUM

MEMORANDUM								
To: From: Date: Subject:		Marie Prezioso, Chair						
		Katheryn Emery, P.E., Program Manager Sewer Technical Review Committee						
		October 16, 2025						
		City of Salem IJDC Application - 2025S-2694 Wastewater Collection System Upgrade - Phase III						
1. This committee has reviewed the preliminary application and engineering report submit for the above referenced project in accordance with Chapter 31, Article 15A. It has been determined that the proposed project is:								
	a. <u>√</u>	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 rec	ommendation is that:						
	a. <u>√</u>	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						

The Funding Committee should recommend that the Council approve the

- The Funding Committee does not need to review the funding assumptions on this project. This project will need to be tabled to give time for the PSC to complete the review.
- d. This project should be referred to the Consolidation Committee.

3. Other remarks:

This project will separate the sewer and storm collection system in area #2(Main street). An estimated 79% of the water treated at the plant is the result of I&I. The City currently has three sanitary sewer overflows and under Consent Order No.8235 issued by the WVDEP on March 25, 2015. This project will address the I&I and Order.

The total cost for this project is \$3,500,000 and the City intends to pursue a \$1,000,000 WVIJDC Grant, a \$2,000,000 CWSRF Principal Forgiveness Loan, and a \$500,000 CWSRF Green Infrastructure.

However, the project appears to be eligible for only \$1,500,000 in CWSRF Principal Forgiveness and does not appear to be eligible for Green Project Reserve funds for Stormwater.

Preliminary Project Ratings:

Public Health Benefits: 10 Compliance with Standards: 20



STATE OF WEST VIRGINIA

DEPARTMENT OF HEALTH

BUREAU FOR PUBLIC HEALTH

OFFICE OF ENVIRONMENTAL HEALTH SERVICES

Arvin Singh, EdD, MBA, MS, FACHE Secretary of Health

Jason R. Frame OEHS Director

MEMORAND UM

TO:

Meredith J. Vance, Director

Environmental Engineering Division

FROM:

Patrick Murphy, P.E. AM

Environmental Engineering Division

DATE:

October 6, 2025

SUBJECT:

City of Salem

IJDC Application- 2025W2694 (Prior 2021S-2024)

Plant Upgrade / Line Upgrade

Harrison County

Recommendation: We have reviewed this preliminary application and recommend that it be forwarded to the Funding Committee for review.

Project Scope: This project proposes to construct and install approximately 3075 linear feet (LF) of 10-inch and smaller diameter gravity sewer main line, 16 manholes, 660 LF of 30-inch and smaller diameter stormwater line, 11 stormwater catch basins, 2 stormwater outfalls, surface restoration, and related appurtenances.

The total project cost is \$3,500,000.00

Need for the Project: This project is needed to address inflow and infiltration issues with the existing sewage mains.

Concerns: There are no details in the PER addressing the Plant Upgrade; otherwise none.

Permits: Permits and/or consultation from the following may be expected to be required:

- WV Bureau of Public Health Permit
- WVDEP NPDES Permit.
- US Army Corps of Engineers





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

oMEMORANDUM

TO: Katheryn Emery, P.E., Program Manager, DWWM

FROM: Justin Moffitt, P.E., DWWM

DATE: October 10, 2025

SUBJECT: City of Salem

IJDC Application - 2025S-2694

Wastewater Collection System Upgrade - Phase III

RECOMMENDATION

The IJDC Application and Preliminary Engineering Report (PER) prepared by E.L. Robinson Engineering for the above referenced project has been reviewed and is technically feasible.

PROJECT DESCRIPTION

The City of Salem (City) owns and operates a collect system and 0.40 million gallons per day (MGD)wastewater treatment plant(WWTP) operating under National Pollutant Discharge Elimination System (NPDES) Permit No. WV0020257 in Harrison County, West Virginia. The City serves approximately 675 customers with sewer service in this Class B sewer utility. The system has three sanitary sewer overflows that are located at the WWTP, SSO-001 (near City Hall), and SSO-002 (near the WWTP).

This project proposes to separate the storm and sanitary system by installing approximately 3,075 linear feet (LF) of 10-inch and smaller diameter gravity sewer main line, 16 manholes, 660 LF of 30-inch and smaller diameter stormwater line, 11 stormwater catch basins, 2 stormwater outfalls, surface restoration and related appurtenances.

The proposed total cost for this project is \$3,500,000 and the City intends to pursue a \$1,000,000 WVIJDC Grant, a \$2,000,000 CWSRF Principal Forgiveness Loan, and a \$500,000 CWSRF Green Infrastructure. The current monthly rate for 3,400 gallons is \$68.58 (2.05 % MHI).

NEED FOR PROJECT

The City of Salem has been plagued with Inflow and Infiltration (I&I) issues for years and this project focuses on major sources of I&I. With the City's aging infrastructure comes disconnected pipe joints, cracked pipe sections, broken pipe sections, manhole wall cracks, and various other issues that have been identified. The project area, known as Area #2, contain the bulk of the infractions that are causing the WWTP to routinely exceed its discharge limits. With the installation of dedicated stormwater infrastructure, the elimination of cross-connections, and new sewer infrastructure, this project is the result of Consent Order No.8235 issued by the WVDEP on March 25, 2015. An estimated 79% of the flow that reaches the plant is a result of I&I.

DEFICIENCIES/COMMENTS

- The project appears to be eligible for \$1,500,000 in CWSRF Principal Forgiveness. Additionally, based on the available information, the project scope does not appear to be eligible for the CWSRF Green Project Reserve funds for Stormwater work.
- Using the Combined Application, the Design, and Total Engineering Fees appear to be within the ASCE Curves.
- The PER will need to be developed into a CWSRF Facility Plan if CWSRF is used.

Preliminary Project Ratings:

Public Health Benefits: 10 Compliance with Standards: 20

Public Service Commission of West Virginia

201 Brooks Street, P.O. Box 812 Charleston, West Virginia 25323



Phone: (304) 340-0300 Fax: (304) 340-0325

Ms. Kathy Emery, P. E.
Office of Water Resources
Department of Environmental Protection
601 57th St.
Charleston, West Virginia 25304

Re: Public Service Commission Staff Review Comments

Application No. 2025S-2694

Salem, City of – Sewer System Improvements

Infrastructure Preliminary Application

Dear Ms. Emery:

As requested, the Technical Staff of the Public Service Commission of West Virginia has completed its review of the above-referenced Infrastructure application. In light of Technical Staff's comments enclosed herewith, we are recommending the application be:

X Forwarded to the Funding Committee
Forwarded to the Consolidation Committee
Returned to the Applicant
Please advise if you have any questions.

Sincerely,

Brandon Crace Engineering Division

Brandon Crace

Enclosures

PUBLIC SERVICE COMMISSION STAFF TECHNICAL REVIEW

DATE: October 6, 2025

PROJECT SPONSOR: CITY OF SALEM (SEWER)

PROJECT SUMMARY: The City of Salem is proposing to replace a dilapidated

section of its existing sewer line along East Main Street, relocate a portion which is in a stream, and create

dedicated storm lines.

PROPOSED FUNDING: IJDC Grant \$1,000,000

CWSRF Principal Forgiveness Loan \$2,000,000 CWSRF Green Funding Forgiveness Loan \$500,000 Total \$3,500,000

CURRENT/

PROPOSED RATES: \$68.58 3,400 gallons

\$79.12 4,000 gallons

Application No. 2025S-2694

RECOMMENDATION: X Forward to the Funding Committee

Forward to the Consolidation Committee

Return to the Applicant

FINANCIAL: Stephen Edens

- 1. Current rates (\$68.58 for 3,400 gallons) are above the rate attributable to 1.25% (\$41.79), 1.5% (\$50.14), 1.75% (\$58.50) and 2.0% (\$66.86) of the Median Household Income.
- 2. Using Scenario 1, the preferred funding package consisting of an IJDC Grant of \$1,000,000, a \$2,000,000 CWSRF Principal Forgiveness Loan, and a CWSRF Green Funding Forgiveness Loan of \$500,000, current/proposed rates (\$68.58 for 3,400 gallons) will provide a cash flow surplus of \$22,476 and debt service coverage of 134.83%.
- 3. Using the Scenario 2 alternate loan package of \$3,500,000 (in uncommitted funds) at 5% for 40 years (paid back over 38 years), proposed rates (\$87.17

for 3,400 gallons) will provide a cash flow surplus of \$6,582 and debt service coverage of 122.55%.

4. NOTES TO COMMENTS:

- A. Staff's detailed adjustments are listed on Attachment A for Scenario 1 (Preferred Funding Package) and Attachment B for Scenario 2 (Loan Package).
- B. The Going Level and Proforma adjustments included in the Applicant's Cash Flow Analyses for Scenarios 1 and 2 were used in Staff's Cash Flow Analyses, except as noted on Attachments A and B.
- C. Staff prepared the attached Cash Flow Analysis utilizing information from the Annual Report for the Fiscal Year Ended June 30, 2024, and the applicant's Cash Flow Exhibit submitted with the application.
- D. Staff notes the Applicant is requesting a waiver of Rule 42 Exhibit requirement.
- E. Senate Bill 234, effective June 12, 2015, required water and sewer utilities that are political subdivisions of the state to maintain a cash working capital reserve in an amount of no less than one-eighth (1/8) of actual annual operation and maintenance expenses. It should be noted that the cash flows provided by the project sponsor include funding for the 1/8 cash working capital reserve. Staff accepted that amount in its analyses. However, this amount may be reviewed by the Commission in future filings in accordance with Public Service Commission General Order 183.11.
- F. Senate Bill 234 (2015) required, pursuant to WV Code 24-2-4b (b), that municipally operated utilities shall consider a reasonable plant-in-service depreciation expense for rates and charges. The project sponsor should take this into consideration when preparing its Rule 42. Municipals that do not provide for a reasonable depreciation expense risk delays in Certificate of Convenience and Necessity filings if rates are determined to not be sufficient.
- G. The City of Salem should carefully evaluate its revenue requirements before passing a rate ordinance in order to ensure that rates are sufficient to provide a reasonable surplus and meet coverage requirements.

Calculations to support the revenue projections should also be provided.

ENGINEERING: Jim Spurlock

- Pursuant to House Bill 2742 passed in the 2025 Legislative Session this project will not require a Certificate of Convenience and Necessity from the PSC.
- 2. Scope: The City of Salem proposes to install approximately 3,075 feet of 10-inch and smaller gravity sewer line, and 660 feet of 30-inch and smaller stormwater line, and related appurtenances. The project will replace a dilapidated section of sewer line along East Main Street, relocate a portion which is in a stream, and create dedicated storm lines.

Customer Density: N/A

Cost per Customer: \$5,185

Taken from the total project cost estimate of \$3,500,000 spread over 675 existing customers.

- 3. Project Feasibility: The project is technically feasible. The cost per customer is reasonable. The project will address a major source of I/I, and help address D.E.P. violations.
- 4. Project Alternatives: The nature of the project does not lend itself to alternatives besides "do nothing".
- 5. Consolidation: No consolidation opportunities are presented by the project.
- 6. Inconsistencies: None were noted.
- Operation and Maintenance (O & M) Expenses: O & M costs are not projected to change as a result of the project. It stands to reason that an unquantified reduction in treatment costs will be realized with reduction of I&I.
- 8. Engineering Agreement: The application includes information to determine apparent compliance with <u>West Virginia Code</u> §5G-1-1, <u>et seq.</u> Total technical services (engineering) costs for the project are \$517,000 which is equal to 18.71% of the construction cost of \$2,763,000 (including contingency).

CITY OF SALEM - SEWER CASH FLOW ANALYSIS YEAR ENDED: June 30, 2024 APPLICATION NO. 2025S-2694

PREFERED FUNDING PACKAGE SCENARIO 1

October 14, 2025		Before Project 1		P Per	Fash Flow Proforma Application Staff Adjustments 2 3 \$		Per Staff Analysis 4 \$			
			\$		\$		Ф			Φ
AVAILABLE CASH										
Operating Revenues			742,255		742,255		-			742,255
Other Operating Revenue			18,260		18,260		-			18,260
SB 234 Annual Working Cash Colle	ections		53,194		53,194		-			53,194
Interest Income & Other Misc.			24,694		24,694		-			24,694
Total Cash Available			838,403		838,403	-				838,403
OPERATING DEDUCTIONS										
Operating Expenses			438,511		438,511		_			438,511
Taxes			16,818					16,818		
Total Cash Requirements Before										
Debt Service			455,329		455,329		-			455,329
Cash Available for Debt Service	(A)		383,074	-	383,074		-			383,074
DEBT SERVICE REQUIREMENTS										
Principal & Interest	(B)		284,125		284,125		-			284,125
Other Debt	` ,		4,266		4,266		_			4,266
Reserve Account @ 10%							-			· <u>-</u>
Renewal & Replacement Fund (2.5	%)		32,402		32,402	(13,389)	(1)		19,013
Total Debt Service Requirement			320,793	-	320,793		13,389)			307,404
SB 234 Cash Working Capital			53,194		53,194		_			53,194
Remaining Cash			9,087		9,087		13,389			22,476
Percent Coverage ((A) / (B)		134.83%		134.83%					134.83%
Average rate for 3,400 gallons		\$	68.58	\$	68.58	\$	_		\$	68.58
Average rate for 4,000 gallons		\$	79.12	\$	79.12	\$	-		\$	79.12

CITY OF SALEM - SEWER CASH FLOW ANALYSIS YEAR ENDED: June 30, 2024 APPLICATION NO. 2025S-2694 Attachment A
PREFERED FUNDING PACKAGE
SCENARIO 1

\$

Staff Adjustments

Increase <Decrease>

Adjustment Description

(1) Renewal & Replacement Fund (2.5%)

Per Staff Analysis 19,013 (13,389) Per Application with Project 32,402

Staff used 2.5% of the projection of "Operating & Other Revenues" as the basis of the renewal & replacement fund.

LOAN PACKAGE SCENARIO 2

CITY OF SALEM - SEWER CASH FLOW ANALYSIS YEAR ENDED: June 30, 2024 APPLICATION NO. 2025S-2694

October 14, 2025	Going Per Ap	Max Rate Going Level Per Application Before Project 1 2 \$ \$		rma ication	Staff Adjustments 3 \$			Per Staff Analysis 4 \$		
AVAILABLE CASH Operating Revenues Other Operating Revenue SB 234 Annual Working Cash Collections Interest Income & Other Misc.		742,255 18,260 53,194 24,694	9	956,200 22,110 54,814 24,694		- - -			956,200 22,110 54,814 24,694	
Total Cash Available		838,403	1,0	057,818		-		1	,057,818	
OPERATING DEDUCTIONS Operating Expenses Taxes		438,511 16,818	4	438,511 16,818		- -			438,511 16,818	
Total Cash Requirements Before Debt Service		455,329		455,329		-			455,329	
Cash Available for Debt Service (A)		383,074		602,489		-			602,489	
DEBT SERVICE REQUIREMENTS Principal & Interest (B) Other Debt Reserve Account @ 10%		284,125 4,266	4	490,046 4,266 20,592		1,574 - 157	(1)		491,620 4,266 20,749	
Renewal & Replacement Fund (2.5%)	-	32,402		32,402		(7,944)	(3)		24,458	
Total Debt Service Requirement		320,793	;	547,306		(6,213)			541,093	
SB 234 Cash Working Capital		53,194		54,814		-			54,814	
Remaining Cash		9,087		369		6,213			6,582	
Percent Coverage (A) / (B)		134.83%		122.95%					122.55%	
Average rate for 3,400 gallons Average rate for 4,000 gallons	\$ \$	68.58 79.12	\$ \$	87.17 100.57	\$ \$	- -		\$ \$	87.17 100.57	

CITY OF SALEM - SEWER CASH FLOW ANALYSIS YEAR ENDED: June 30, 2024 APPLICATION NO. 2025S-2694 Attachment B LOAN PACKAGE SCENARIO 2

Staff Adjustments

=	Adjustment Description		\$	Increase <decrease></decrease>
(1)	Principal & Interest	Per Staff Analysis Per Application with Project	491,620 490,046	1,574
	The difference in P&I is related to Staff's calculation of a loan of \$3,	500,000 for 40 years (paid back over 38	years) at 5%).
(2)	Reserve Account @ 10%	Per Staff Analysis Per Application with Project	20,749 20,592	157
	Staff assumed a 10% reserve on the new debt.			
(3)	Renewal & Replacement Fund (2.5%)	Per Staff Analysis Per Application with Project	24,458 32,402	(7,944)

Staff used 2.5% of the projection of "Operating & Other Revenues" as the basis of the renewal & replacement fund.