

**COMMISSION FILE NO:** 25-159-12 **DATE INTRODUCED:** December 1, 2025

**INTRODUCED BY:** Executive Director (Signature on File in the Office of the Commission)

**REFERRED BY COMMISSION CHAIRPERSON TO:** Operations Committee

**RELATING TO:** Approval of Funding Agreement M10005WA05 Under Project M10005, 2025 City of Wauwatosa Private Property Infiltration and Inflow Reduction Project

**SUMMARY:**

The Commission is requested to authorize the Executive Director to execute on behalf of the District Funding Agreement M10005WA05 in the amount of \$666,500 for work outlined in Work Plan M10005WA05 as submitted by the City of Wauwatosa (City) under Project M10005, Private Property Infiltration and Inflow (PPII) Reduction Program. Including Funding Agreement M10005WA05, the City has obligated 100% of the funding available to the City through 2025 in the PPII Program.

The City proposed to investigate 788 properties via closed circuit televising (CCTV) while ditch/storm sewer dye water flooding is completed. The primary project area is bounded by Center Street, N. 60<sup>th</sup> Street, N. 80<sup>th</sup> Street, and N. 63<sup>rd</sup> Court. The secondary project area is bounded by W. Grantosa Drive, N. 92<sup>nd</sup> Street, Capitol Drive, and N. 100<sup>th</sup> Street. This project is intended to validate lateral grouting as a viable inflow and infiltration reduction strategy.

The City will also conduct an analysis of 10-plus years of historical portable metering data collected throughout the municipality.

**ATTACHMENTS:** **BACKGROUND** ☒ **KEY ISSUES** ☐ **RESOLUTION** ☒  
**FISCAL NOTE** ☒ **S/W/MBE** ☐ **OTHER** ☐ \_\_\_\_\_

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**COMMITTEE ACTION:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**COMMISSION ACTION:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

## **BACKGROUND**

### **Approval of Funding Agreement M10005WA05 Under Project M10005, 2025 City of Wauwatosa Private Property Infiltration and Inflow Reduction Project**

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This project will investigate the effectiveness of two types of lateral rehabilitation completed in the City over the past 15 years of the PPII Program within metershed MS0411 and WA3008: partial lateral grouting of five-foot, 10-foot, and 15-foot lengths and partial lateral replacement in reducing infiltration into private property sanitary sewer laterals. The analysis will compare the observed/estimated infiltration rates of post-rehabilitation to pre-rehabilitation dye testing data.

The scope of work includes dye water testing and CCTV inspection of the mainlines and laterals. The dye water flooding test will be completed by plugging downstream storm sewer pipes and filling upstream manholes and catch basins with dyed water. This surcharged condition will be maintained by adding additional water to maintain a consistent head, mimicking a storm event. The dye water will exfiltrate out of the storm sewer system, saturate the ground, and potentially infiltrate into the sanitary sewer system. Using CCTV inspection, the infiltration of the dyed water into the sanitary sewer system will be observed and documented. During the test, the rate of infiltration into the sanitary sewer system will be estimated at each entry point. The final summary report will detail all locations of infiltration within, providing an overall estimate of flow from both public and private property. This data will be compared to pre-grouting results to evaluate the effectiveness of lateral grouting and partial lateral replacement. The testing on the relaid Wisconsin Avenue laterals will evaluate the reduction of infiltration compared to preconstruction levels from a previous study.

An additional analysis of 21 historic meters' data collected using MMSD portable and permanent meters across the municipality will be completed, assessing the effectiveness of the PPII work completed in the City.

This request is funded through accumulated annual allocations to the PPII Project M10005 (\$512,500) and a competitive funding application (\$154,000) and does not represent an increase in the total project cost. The total project cost is \$807,700; \$666,500 is funded by PPII, and the rest is funded by the City. The City will be self-funding municipal staff time, which is approximately 10% of the City's total project cost. Including Work Plan M10005WA05, the City has obligated 100% of the funding available to the City through 2025 in the PPII Program.

## **RESOLUTION**

Approval of Funding Agreement M10005WA05 Under Project M10005, 2025 City of  
Wauwatosa Private Property Infiltration and Inflow Reduction Project

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**RESOLVED**, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized and directed to execute on behalf of the District Funding Agreement M10005WA05 in the amount of \$666,500 for work outlined in Work Plan M10005WA05 as submitted by the City of Wauwatosa under Project M10005, Private Property Infiltration and Inflow Reduction Program.