



AGENDA ITEM SUMMARY FORM

PROPOSED MEETING DATE: April 6, 2022
PREPARED BY: Pauline M. Gray, P.E.; Gary Beck, P.E.
DEPARTMENT: City Engineer

AGENDA ITEM DESCRIPTION:

Fall 2021 Flow and Rainfall Monitoring Project Report

BACKGROUND/SUMMARY:

The City of Manor has encountered high wastewater collection and treatment system flows during storm events and rainy periods. These high flows at the Wilbarger Creek Wastewater Treatment Plant and City lift stations jeopardize the City's ability to meet permitted flow requirements at treatment plant facilities (excursions), and present potential for system spills (bypasses). To address peak wet weather sanitary sewer system flows, discussions were held with City Staff and City Management to identify potential corrective actions.

As a result of the discussions, the City of Manor engaged GBA, Inc. to conduct a limited-scope investigation with the purpose of identifying surface water inflow and groundwater infiltration (I&I) into the city's existing wastewater system in an effort to mitigate high wastewater collection and treatment system flow conditions.

From the review of the results obtained during the I&I Study, it is recommended the City continue monitoring during the Fall season to collect additional flow data and firm up peak flow to rainfall correlations. The larger storms produced backups at several sites due to proximity to lift stations. Flow monitoring upstream at a manhole or two, if possible, could provide more data representative of the subsystem's inflow characteristics.

LEGAL REVIEW: Not Applicable
FISCAL IMPACT: Yes, Funding through Wastewater Department
PRESENTATION: Yes
ATTACHMENTS: Yes

- Fall 2021 Flow and Rainfall Monitoring Project

STAFF RECOMMENDATION:

PLANNING & ZONING COMMISSION: **Recommend Approval** **Disapproval** **None**