

**AGENDA ITEM SUMMARY FORM**

**PROPOSED MEETING DATE:** May 17, 2023  
**PREPARED BY:** Daria Sakharova, P.E.  
**DEPARTMENT:** City Engineer

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**AGENDA ITEM DESCRIPTION:**

Consideration, discussion, and possible action on the 2022 Fall Inflow and Infiltration Report.

**BACKGROUND/SUMMARY:**

The City of Manor has been contending with elevated wet-weather flows at its wastewater treatment facilities. To begin the process of addressing high levels of wet-weather flows, the City Council engaged GBA to initiate a flow monitoring program. An initial flow monitoring study was conducted in the Fall of 2021 which identified several sanitary sewer drainage basins with elevated rates of Inflow and Infiltration (I&I). A second (more focused) round of flow monitoring was performed in the Fall of 2022 to further delineate I&I locations within the City's system. Additionally, two basins from the 2021 project that had been identified as having excessive I&I were selected for Sanitary Sewer Evaluation Study (SSES) investigations for the Fall of 2022, which consisted of manhole inspections, smoke testing, and closed-circuit televising (CCTV) of the basins' sanitary sewers.

The attached project report provides analysis of all flow and rainfall monitoring from the Fall 2022 investigations, including manhole condition assessments, CCTV, and smoke testing results, GIS updates, and engineering recommendations for wastewater collection system administrative, maintenance, and construction items. The report's Conclusions and Recommendations section includes annual inflow-reduction investigative budget amounts and scheduling for overall I&I mitigation program preliminary engineering, design, construction, and post-construction activities. Construction project scopes will be defined based upon capital budget amounts established to accomplish desired I&I mitigation objectives.

**LEGAL REVIEW:** Not Applicable

**FISCAL IMPACT:** No

**PRESENTATION:** Yes

**ATTACHMENTS:** Yes

1. 2022 Fall Inflow and Infiltration PowerPoint Presentation Deck
2. 2022 Fall Inflow and Infiltration Report

**STAFF RECOMMENDATION:**

Staff recommends that the City Council accept the report as presented.

**PLANNING & ZONING COMMISSION:**

**Recommend Approval**

**Disapproval**

**None**

*(Type X before choice to indicate)*

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