

SLFRF ARPA Projects

Administrative Order / Regional Flow Management Strategy Projects

Background:

- The City is responsible to fund all EPA Administrative Order costs which directed the parties (contributors to KIWWTP) to address the sanitary system issues problems. Completion of the projects outlined in the Regional Flow Management Strategy (RFMS) will *relieve the City from the AO*.
- City projects include five inflow and infiltration (I&I) reduction projects and sanitary system flow characterization.
 - Cycle 1 completed in June 2020.
 - projected to remove approximately 600,000 to 1.6 million gallons daily depending on ground water levels and sewer pipe flows. Cost for the project was around \$600,000
 - Cycle 2 currently ongoing.
 - NTP was 4/16/2021 and the project began May 4, 2021.
 - Cycles 3, 4, & 5 are currently scheduled to occur in the next few years.
 - Sewer System Characterization Study started in 2021
 - Meters for modeling system flows are currently installed throughout the sanitary collection system. This model will identify system issues and will be used to develop capital improvement and/or I&I reduction projects necessary to meet the future sewage capacity needs of the region through 2050.

Benefits:

- The \$2M in funding will save the rate payers:
 - ~ \$2.6M over the life of a 15-year loan.
 - Annual savings are ~\$176,000
- The Office of Compliance anticipated needing ~\$2M more to finish our AO requirements. The Recovery Act funding will relieve the City from financing.
- The decrease I&I flow to the WWTP will:
 - Provide additional plant capacity and City allocation.
 - These I&I removal projects are at a fraction of the cost of expanding the WWTP.
 - Help avoid triggering the Special Protection Waters (SPW) requirements of the Delaware River Basin Commission (DRBC) to the greatest extent possible. These are costs over and above regular expansion costs.
 - If expansion is needed at the WWTP the contributors needing allocation would be responsible to pay their share. Keeping City flows below allocation will significantly reduce costs to City ratepayers.
 - Additional capacity encourages development and job growth, providing a larger tax base.

Regulatory

- Eliminate regulatory actions (NOV and Consent Orders) by Reducing likelihood of headwork bypasses and sanitary sewer overflows. Also reduces legal expenses relating to permit issues.