

Real-Time Control - Rock Run Relief Sewer Storage

Infrastructure Project

Tacony-Frankford Watershed



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Status: Concept Design

Partners:

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The Rock Run Relief Sewer provides flood relief to combined sewer areas upstream of regulator T8 in the Northeast Drainage District. Currently, CSO discharges into Tacony Creek at the Rock Run Relief Sewer outfall. This sewer has a potential storage volume of approximately 2.3 million gallons and in order to use this storage, an inflatable dam is needed in the box sewer. This inflatable dam will reduce CSO discharges to the creek by utilizing the relief sewer for in-system storage. This control technology provides an additional margin of protection against dry weather overflows while still maintaining flood protection for upstream communities. The inflatable dam retains the stored flow in the relief sewer and a new connector sewer drains the stored flow to an existing nearby interceptor.



Benefits:

- The Tacony Creek will realize a consistent average annual reduction of approximately 600 million gallons in CSO discharges with the completion of both the Rock Run Relief and T14 Real-time Control Projects.
- This represents a reduction of roughly 12% in the average annual volume of CSO and a significant reduction in the associated pollutants (bacteria and organic matter from untreated wastes, litter and other solid materials in both wastewater and stormwater runoff, etc.)



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