

85% CSO Capture in Pennypack Watershed

Infrastructure Project

Pennypack Watershed



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Status: Monitoring

Partners:

Philadelphia Water Department

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Addressing CSO discharges to Pennypack Creek is a high priority for the PWD CSO Program. During this project, it was determined that an increase in capacity of approximately 20 cfs was required for the Pennypack interceptor to achieve 85% capture. The project entailed construction of new dry weather outlet conduits at three Pennypack CSO regulators. In addition, the diversion dam height at four regulator locations was raised to allow for more storage and modification of twelve regulators was completed in order to provide the required capacity in the interceptor. This project enabled capture of 85% of the combined sewer flow in all five Pennypack CSO basin areas while maintaining existing overall system-wide CSO capture on an average annual basis.



Benefits:

- The average annual volume of CSO is reduced by 91 million gallons, from 130 to 39 million gallons
- A reduction of roughly 70% in the average annual volume of CSO and the associated pollutants (bacteria and organic matter from untreated wastes, litter and other solid materials in both wastewater and stormwater runoff, etc.) discharged into Pennypack Creek



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