

Project Description - Abington Junior High School generates a large amount of stormwater runoff during periods of rain and storms. This project is located in the headwaters of a highly developed watershed, where it has the capacity to improve water quality at the source, while providing a model that can be replicated at other public and private lands throughout the urban watersheds of Philadelphia.

Project Timeframe – December 11, 2018 through December 31, 2022

Project Goals - The goals of the rain garden implementation were to reduce the current velocity of the contributing drainage area, replenishing groundwater and increasing base flow.

Pictures –



Project Results - High velocity runoff flows down the steeply sloped roadway to the school and directly discharged to the East Baeder Creek. Installation of the riparian buffer served to filter and reduce erosion from sheet flow system. The outcome of the project includes reducing the high velocity runoff by installing two rain gardens, which will also function to remove Phosphorus and Total Suspended Solids. The completed green stormwater infrastructure project at Abington Junior High School replicates a natural system and utilizes trees, shrubs, and herbaceous plants to clean and reduce stormwater runoff. The project will conserve natural resources important to land and water assets. The project replicates natural features, protecting East Baeder Creek and improving habitat through use of native plants which promote pollination and nesting, and attract wildlife. All disturbed areas were seeded with a native riparian seed mixture consisting of deep-rooted grasses and flowering perennials.

Project Costs - \$64,815 Growing Greener plus an additional \$95,970.28 in match funds.