

# Beacon Hill Stormwater Basin Retrofit Project

## Grant Document Number: C990002472

### Lower Allen Township

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#### Project Description

The basin retrofit at the Heights of Beacon Hill Subdivision addresses the stormwater issues for a drainage area of 21.5 acres, including 7 acres of impervious coverage. The retrofit converted a dry detention basin into a bioretention basin. Lower Allen Township is required to meet a 10% reduction in sediments over the next 5-year PAG-13 Permit Cycle. This retrofit also addresses non-point source pollution impairments of the Yellow Breeches Creek and the Susquehanna River.

#### Project Goals

The goals of this project included:

Reduction in Total Phosphorus, Total Nitrogen, and sediment; runoff control from small and frequent storms; managing non-point source pollution; vegetation act as a natural filter; maintenance requirements will be reduced with less mowing.

#### Project Results

The retrofit of the Heights of Beacon Hill Basin will reduce a total of 17,015.86 lbs/yr of sediment from reaching the Yellow Breeches, the Susquehanna River, and the Chesapeake Bay.

#### Pictures

Beacon Hill Basin before: January 2021



Beacon Hill Basin After: December 2022



#### Project Costs

Total project costs were \$164,964

#### Lessons Learned

The importance of cooperative efforts and clear communication with residents to complete a task beneficial to the entire community.

#### Partners

Heights of Beacon Hill HOA and Lower Allen Township

#### Contact Information

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