

# Improving Wildlife and Aquatic Habitat in Glenolden Community Park

## Growing Green Grant # C990003007

### Glenolden Borough

#### PROJECT DESCRIPTION

The project restored 490 Linear feet of the Muckinpates Streambank, treated 26.5 acres of stormwater runoff in a 542 linear foot bioswale, established a native riparian buffer, increased wildlife habitat with native plants throughout the project area, and created new and improved pedestrian access, including ADA access to the lower portion of Glenolden Community Park. The project experienced moderate delays due to the Covid pandemic and required the sourcing of additional funding due to cost increases. Project engineering was completed in 2022, permit where issues in October of 2022, and the project was put out for public bid on August 29, 2022 and September 5, 2022 with bid opening on September 13, 2022. There was only 1 bid, Gessler Inc. Project work began in mid April of 2023. Project components were completed by June 30, 2023.

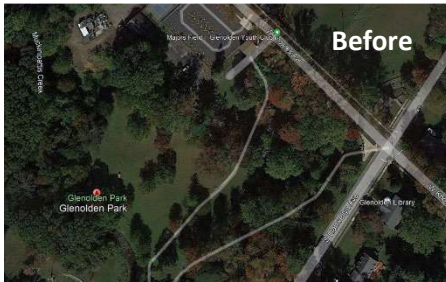
#### PROJECT GOALS

The goals of this project were to reduce nonpoint source pollution and volume of water entering the Muckinpates Creek to create improved water quality for fishing, recreation, and aquatic life. The project also aimed to improve wildlife habitat in the densely urban Borough within Eastern Delaware County. The conversion of the project area from domination by turf grasses to a mix of native trees, shrubs, and herbaceous plants creates a functioning ecological landscape that improves recreational opportunities within the park.

#### PROJECT RESULTS

The project goal was to reduce sediment reduction to the Muckinpates Creek through the use of green stormwater infrastructure. The project has successfully stabilized 490 feet of streambank and planted the stream in a riparian buffer. The 542 LF bioswale treats 26.5 acres of stormwater runoff. In total, these will result in a reduction of sediment of 11,795 lb/yr.

#### PICTURES



#### PROJECT COSTS

Project Item	Costs
Landscaping	\$153,425.95
H. Gilroy Damon Engineers	\$26,127.98
Plant Material	\$54,634.32
Landscape Architect	\$6,000.00
Excavating, Grading, Walking Path, Structures	\$521,240.00
<b>Total</b>	<b>\$761,428.25</b>

Awarded Grants	Amount
NFWF	\$175,000.00
DCED Act 13	\$50,000.00
Growing Greener	\$224,750.00
DCNR	\$222,640.00
Delco Greenways	\$242,140.00
<b>Total Funds</b>	<b>\$914,530.00</b>

*\*The Delco Greenways Grant has a longer deadline. Not all funds have been expended. The remaining funds will be used for additional improvements, greenstormwater, and habitat within the park the compliment and support this project.*

#### LESSONS LEARNED

Overall the project was a great success and has accomplished what we set out to do as far as water quality and habitat improvements. Residents are very supportive of the project and visitors to this portion of the park have increased with those stopping to enjoy the many native plants and wildlife they bring. Project costs were an issue due to increased inflation of materials and labor, however, the Borough and project partner EDCSC were successfully able to obtain additional grant funds to see the project through to completion. The timing of construction was also impacted by Covid which pushed the build back to the spring causing some concern with new plants in the hot dry months, but we had a solid plan in place for watering if needed. The EDCSC has ensured that a landscape contractor was present after the planting to weed as needed to reduce competition for the new plants. This contractor with the EDCSC further worked with public works crew members to establish new mowing patterns and educate staff on the project. Having a solid engineering firm in place to help with oversight and be on site regularly proved essential to successful project completion.

#### PARTNERS

The Eastern Delaware County Stormwater Collaborative was a key partner of this project coordinating all aspects of project management.

#### CONTACT INFORMATION

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