

HOPEWELL ELEMENTARY STORMWATER AND RIPARIAN ENHANCEMENT

FAST FACTS

Location: 8200 Cox Road,
West Chester Township,
Ohio 45069

Project Implementers:

Lakota Local Schools, Butler
Soil and Water Conservation
District, Mill Creek
Watershed Council of
Communities, Butler
County Storm Water District

Project Area: 5.8 acres

Project Cost: \$123,450

Completion: Fall 2015

PROJECT FEATURES

5,000 sq ft rain garden and
bioswale along parking lot

Two-acre emergent wetland
drain soccer fields

Prairie grass plantings
replace turf grass

Native vegetation plantings
replace invasive bush
honeysuckle in riparian
corridor

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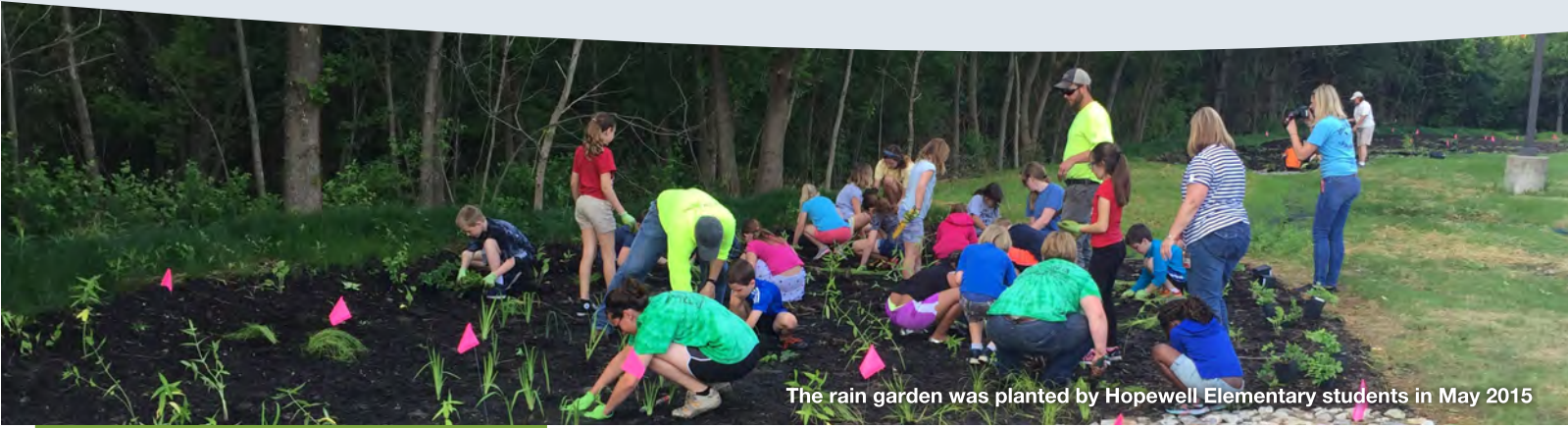


The bioswale pictured above filters stormwater runoff from the school's parking lot allowing pollutants, sediment, and nutrients to settle-out before the water enters the East Fork Mill Creek.

Near the headwaters of the East Fork Mill Creek on the campus of Hopewell Elementary, the Lakota Local School District is taking a more naturalized approach to stormwater management. High quality habitat with native plants, flowers and prairies provides a "treatment train" for water entering the stream. Educational signage and outdoor learning opportunities provide a benefit to the school and the surrounding community.

What is the Hopewell Elementary Stormwater and Riparian Enhancement Project?

Slowing the movement of stormwater off a landscape reduces high velocity stream flows and lessens erosion of the streambanks, both of which harm in-stream habitat and threaten water quality. This project redirects stormwater through one of three new landscape drainage features and provides a robust stream buffer for a section of the East Fork Mill Creek in West Chester Township. Replacing bush honeysuckle in the riparian corridor with deep-rooted native trees and shrubs improves bank stabilization and reduces sediment pollution in the stream. The velocity of stormwater runoff from the school parking lot, soccer fields and surrounding roadways is slowed as it is redirected through either a rain garden, emergent wetland, or prairie.



The rain garden was planted by Hopewell Elementary students in May 2015

PROJECT GOALS

- Improve water quality through natural filtration of stormwater
- Enhance wildlife habitat
- Educate students and the community about healthy riparian ecosystems
- Reduce mowing and maintenance costs



Before: Turf grass and honeysuckle riparian zone



After: Bioswale drainage course and rain garden



Before: Turf grass alongside soccer fields



After: Emergent wetland and prairie grasses

Project Partners



Project Funders



LOCATION



8200 Cox Road, West Chester Township, Ohio 45069

From I-75 north take the Tylersville exit and turn right onto Tylersville Road. In 0.5 miles turn right onto Cox Road. In 1.5 miles the school will be on the left.