

# Logan Park Stream and Floodplain Restoration

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## Problem:

A highly incised stream caused flooding in Logan Park and the adjacent community during significant storm events. This created a hazard to residents as well as a shortage of athletic field space due to frequently flooded soccer fields. In addition, polluted overflow created erosion and pollution to Rife Run, a tributary to Chiques Creek.

## Solution:

A green master plan for Logan Park was developed. This included integrating the re-alignment of Rife Run into the existing park, maintaining and improving the soccer fields, and providing a proposed trail connection for the Borough. Stream and floodplain restoration, wetland creation, and the installation of other stormwater BMPs reduced flooding of the adjacent fields, improved water quality, and expanded wildlife habitat.

**Community Engagement:** The project increased wildlife habitat and usable recreational space for athletic fields. The extension of a greenway trail increased opportunities for environmental education for local schoolchildren.



Eroding streambanks of Rife Run before restoration.



Post-construction stream and floodplain restoration.

Photo credit: LandStudies

## Key Project Facts

**Project Location:** Manheim, PA

**Type of Project:** Stream/floodplain restoration

**Scale:** 2.5 acres of wetlands created; 1,500 linear feet of stream relocated and restored; 6 acres of native ecosystem restoration and improved bio-diversity

**Pollutants Removed:** 757 lbs/yr nitrogen, 293 lbs/yr phosphorus, 118 tons/yr sediment

**Cost:** \$464,223.92 (Master Plan: \$2,731.97; NFWF Rife Run Design & Permit: \$23,991.95; Rife Run Design & Permit: \$37,500; Construction: \$400,000)

**Funding Sources:** PA DEP Growing Greener Grant, National Fish and Wildlife Foundation

**Partners:** Chiques Creek Watershed Alliance, Manheim Borough, Manheim Soccer Club, LandStudies, Inc.

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## What is Polluted Runoff?

The growth of our cities has resulted in too many paved surfaces, which prevent rain water from being absorbed by the ground. Instead, the water runs off streets and buildings, collecting trash and dangerous chemicals on its way. This contaminated water overflows into our streams and rivers, creating public health hazards and toxic waters.

Stormwater projects create safe paths for polluted runoff to be captured and filtered before it reaches our waterways. They keep communities healthy and the environment clean.

**When communities and their local governments work together to solve big problems like stormwater runoff, that's a story worth telling!**