

## RIPARIAN RESTORATION PROJECT

# PAULINSKILL RIVER- BLAIRSTOWN TOWNSHIP

### Riparian Forest Buffers

Communities of trees, shrubs and other plants growing along streams and lakes.

### Buffer Benefits

Protect and enhance the water quality of streams and their aquatic environments by filtering non-point source pollutants such as sediment and nutrients from storm water runoff. Buffers also reduce streambank erosion and provide improved wildlife and fisheries habitat.

### Additional Buffer Information:

[www.northjerseyrcd.org](http://www.northjerseyrcd.org)  
or  
[www.rce.rutgers.edu/njriparianforestbuffers](http://www.rce.rutgers.edu/njriparianforestbuffers)



North Jersey  
Resource  
Conservation  
and  
Development  
54 Old Highway 22  
Suite 201  
Clinton, NJ 08809-1389

Phone: 908-735-0733

Objectives of the Riparian Forest Buffer Projects were to demonstrate:

1. Effective site design utilizing naturally-occurring plant communities
2. Design flexibility that can incorporate such things as aesthetics, recreation & environmental benefit to a waterway in a park setting
3. The use of native plants

Waterway Buffered: Paulinskill River

Location: Footbridge Park, Blairstown Township, Warren County

Description: Traditional park setting with a single row of aging trees and a manicured lawn. Utilized for both active and passive recreation the park has a pavilion for picnicking and is a popular fishing spot. Several trees has been lost due to the severe streambank erosion on the site. The Paulinskill River in this section is designated as trout maintenance water. The completed buffer consists of 66 native trees representing 9 different species & 241 native shrubs representing 13 different species.

Size: 960 feet long, 64 feet wide (on average), 1.4 acres

Planting Date: May 2004

Total Cost: \$14,951.00



Site prior to planting August 2003

## RIPARIAN RESTORATION PROJECT

# PAULINSKILL RIVER- BLAIRSTOWN TOWNSHIP

### Dominant Trees & Shrubs Planted

#### Trees:

- Sugar Maple
- Shadbush
- River Birch
- Ironwood
- Sycamore
- Swamp White Oak
- Pin Oak
- Sweetbay
- Magnolia

#### Shrubs:

- Speckled Alder
- Summersweet
- Red Osier Dogwood
- Silky Dogwood
- Southern Arrowwood
- Winterberry
- Elderberry
- Highbush Blueberry
- Spicebush
- Inkberry
- Swamp Azalea

### Additional Buffer Information:

[www.northjerseyrcd.org](http://www.northjerseyrcd.org)  
or  
[www.rce.rutgers.edu/  
njriparianforestbuffers](http://www.rce.rutgers.edu/njriparianforestbuffers)

**Project Partners & Volunteers:** The riparian forest buffer demonstration is part of a larger regional project, it was coordinated and implemented by North Jersey RC&D. The design was created by Amy S. Greene Environmental Consultants, Inc. Volunteers from North Warren Hills High School Future Farmers of America Club, NJ Youth Corps, and township residents were invaluable participants in the planting and establishment of this planting site.

**Project Funding:** Originated from U.S. Environmental Protection Agency Nonpoint Source Pollution 319h grant program administered by the NJ Department of Environmental Protection through a grant awarded to the North Jersey RC&D.

### Design Components

1. **Buffer Installation:** deer resistant species, willow livestakes installed for streambank stabilization
2. **Recreation:** Designate entrances/openings for fisherman to gain access to river through buffer
3. **Inundation-Tolerance:** species tolerant to periods of flooding water planted in low-lying areas (floodplain areas)
4. **Establish mulch walking path through buffer area, with entrance areas designated by split-rail fence and planting beds**



After planting May 2004