

# RIPARIAN RESTORATION PROJECT

# PEQUEST RIVER WHITE 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  
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and  
Development

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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 natural area
3. The use of native plants

Waterway Buffered: Pequest River

Location: NJ Division of Fish and Wildlife property off Route 46, White Township, Warren County

Description: State owned Wildlife Management Area with access to the river. The property was being mowed every 2 to 3 years to help control the multi-flora rose and the autumn olive presence. This mowing would eliminate any volunteer native species present. Initial site preparation included brush hogging the field to remove the invasive community. The completed buffer consists of 136 native trees representing 7 different species & 90 native shrubs representing 4 different species.

Size: 750 feet long , 4.2 acres

Planting Date: April 2006

Total Cost: \$18,147.50



Site prior before planting January 2005

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## Dominant Trees & Shrubs Planted

### Trees:

- River Birch
- Gray Birch
- Ironwood
- Swamp White Oak
- Pin Oak
- White Ash
- Black Cherry

### Shrubs:

- Smooth Alder
- Serviceberry
- Red Osier Dogwood
- Black Chokecherry

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 a Natural Resources Conservation Service (NRCS) Earth-team volunteer with oversight by North Jersey RC&D. Volunteers from the NJ Division of Fish & Wildlife, NJ Department of Corrections, NJ Youth Corps, Belvidere High School Future Farmers of America Club and White 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
2. Re-vegetate upland area with native species to help reduce run-off from state highway
3. Leave a designated area unplanted to allow recreational users access to the river
4. Plant larger material to out compete the invasive presence



After planting August 2006

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