

# BMP Project Fact Sheet

## Village Elementary School Rain Gardens

### Project Overview:

The Village Elementary School is located at 67 McCampbell Road in Holmdel, NJ. The courtyard is located in the center of the school and was not being actively used. An asphalt area was removed from the courtyard, and four rain gardens were installed to better manage roof runoff by improving water quality treatment and reducing runoff volume.

### Design Considerations:

The drainage area to the rain gardens was over a half-acre, consisting of roofs, sidewalks and grassed areas. The four rain gardens were designed and constructed with underdrains to ensure that water was able to drain from the surface pond quickly. A one-foot deep stone recharge zone was designed underneath the underdrain to allow for infiltration into the existing soils and to provide groundwater recharge.

### Water Quality and Quantity Benefits:

The rain gardens are designed to provide substantial reductions in both peak flows and runoff volume leaving the courtyard. The combination of volume reduction and water quality improvement reduces pollutant loads entering the Ramanessin Brook downstream.

### Focus on Education:

The rain gardens have been used as an educational tool with students at the school and in the community to raise awareness of stormwater management issues and to encourage the use of rain gardens on private property.

### Maintenance:

The maintenance of the rain gardens has consisted of routine landscape maintenance care and removal of weeds.

### Costs:

The total cost of the project was \$120,000, including asphalt removal, landscaping, demolition, and grading. The construction of the rain gardens was ~20% of the cost.

Project partners include Holmdel Township Schools, Holmdel Twp. Env. Commission, Monmouth County, NJDEP, Rutgers Cooperative Extension, and Kleinfelder.



### **Did you know...**

*The Village Elementary School Rain Gardens Project was funded through the Ramanessin Brook 319(h) Watershed Restoration Plan*

### **Contact Information –**

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