



# Green Infrastructure & Stormwater Management CASE STUDY

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## Poultney High School Raingarden

**Location:** Poultney, VT

**Client:** Village of Poultney

**Design Firm(s):** Lamoureux & Dickinson Consulting Engineers, Inc.

**Landscape architect/Project contact:** Gail Henderson-King, ASLA

**Email:** [Gail@LDengineering.com](mailto:Gail@LDengineering.com)

**ASLA Chapter:** None

### Project Specifications

**Project Description:** The project will address issues of runoff and flooding around the Poultney High School parking area, and help stop polluted rain water from entering the Poultney River - part of which is designated as an Outstanding Resource Water by the State of Vermont.

**Project Type:**

High school parking area

A retrofit of an existing property

**Design features:** Rain garden

**This project was designed to meet the following specific requirements or mandates:** To meet funding criteria

**Impervious area managed:** less than 5,000 sq/ft

**Amount of existing green space/open space conserved or preserved for managing stormwater on site:** less than 5,000 sq/ft

**The regulatory environment and regulator was** supportive of the project.

**Did the client request that other factors be considered, such as energy savings, usable green space, or property value enhancements?** No.

## Cost & Jobs Analysis

**Estimated Cost of Stormwater Project:** \$10,000-\$50,000 (Public funding: State - funding by a grant from the Vermont Center for Clean & Clear)

**Related Information:** 52 cu. yd. Infiltration Trench = \$420 2200 sq. ft. Rain Garden = \$17,600  
10% Contingency = \$1,800 Est. Construction Costs = \$5,000 TOTAL COST = \$24,820

**Was a green vs. grey cost analysis performed?** No

**Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)?** Significantly reduced costs (10% or greater savings).

**Number of jobs created:** Not available

**Job hours devoted to project:** Not available

Planning and Design: Not available

Construction: Not available

Annual Maintenance: Not available

## Performance Measures

**Stormwater reduction performance analysis:** Not available