



# Green Infrastructure & Stormwater Management CASE STUDY

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## Bush's Pasture Park Stormwater Improvements

**Location:** Salem, OR

**Client:** City of Salem, Oregon

**Design Firm(s):** Nevue Ngan Associates; Sisul Engineering

**Landscape architect/Project contact:** Kevin Robert Perry, ASLA

**Email:** [kevin@nevuengan.com](mailto:kevin@nevuengan.com)

**ASLA Chapter:** Oregon



Image: Kevin Robert Perry, ASLA

### Project Specifications

**Project Description:** The landscape architect assisted the City of Salem and neighbors to develop several alternatives for a reconfigured street and parking lot in conjunction with daylighting a portion of Clark Creek in Bush's Pasture Park. The redesigned area provides surface stormwater treatment and infiltration, provides a formal separation between the parking lot and nearby residences, and minimizes the impact to a native oak grove. The site design integrates several parking lot swales, a neighborhood green street, and two infiltration rain gardens. Visually the stormwater facilities link to the daylighted creek. As part of the project,

the landscape architect also created a fundraising packet for use by the City and neighbors. The project is currently scheduled to be built in the summer of 2011.

**Project Type:**

Open space - park

A retrofit of an existing property

**Design features:** Rain garden, bioswale, and curb cuts.

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

Developer/client preference

**Impervious area managed:** 5,000 sq/ft to 1 acre

**Amount of existing green space/open space conserved or preserved for managing stormwater on site:** 5,000 sq/ft to 1 acre.

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

## Cost & Jobs Analysis

**Estimated Cost of Stormwater Project:** \$100,000-\$500,000 (Public funding: State, local )

**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)?** Slightly reduced costs (1-9% 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:**

It is expected that this project will manage, at minimum, the 2-year storm event.

**Community & economic benefits that have resulted from the project:** Currently, the parking lot of the park is gravel and under-developed. The new parking lot and stormwater improvements will greatly enhance the entry points to the park, provide a safer pedestrian

environment, and will increase the aesthetics of the streetscape to adjacent residential properties.

### **Additional Information**

**Links to images:** Drawings can be available by contacting Kevin Robert Perry at 503-239-0600 or email at [kevin@nevuengan.com](mailto:kevin@nevuengan.com)