



# Green Infrastructure & Stormwater Management CASE STUDY

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## Fountaingrove Meadows

**Location:** 3589 Round Barn Blvd, Santa Rosa, CA

**Client:** Billa Enterprises

**Design Firm(s):** Carlile Macy

**Landscape architect/Project contact:** Bill Rinehart, ASLA

**Email:** [BRinehart@CarlileMacy.com](mailto:BRinehart@CarlileMacy.com)

**ASLA Chapter:** Northern California

## Project Specifications

**Project Description:** Condominiums utilizing various landscape based BMP's to treat stormwater prior to discharge off-site

**Project Type:**

Multifamily residential

Part of a new development

**Design features:** Biretention facility, rain garden, bioswale, curb cuts, structural soil based biofiltration, low-flow diversion structures, and biofiltration soil mix.

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

State statute, local ordinance

**Impervious area managed:** 1 acre to 5 acres

**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.

**Did the client request that other factors be considered, such as energy savings, usable green space, or property value enhancements?** Aesthetics, maintenance, public awareness

## Cost & Jobs Analysis

**Estimated Cost of Stormwater Project:** \$50,000-\$100,000 (Public funding: None)

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

**Cost impact of conserving green/open space to the overall costs of the site design/development project:** No affect, preserved open space within setbacks, not buildable.

**Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)?** Did not influence costs.

**Number of jobs created:** 2 (temporary construction contractors)

**Job hours devoted to project:**

Planning and Design: 160

Construction: 160

Annual Maintenance: 40

Other: permitting - 40

## **Performance Measures**

**Stormwater reduction performance analysis:**

First 1" of rainfall detained, treatment capacity + 75% of 2-year rainfall event (estimated).

**Community & economic benefits that have resulted from the project:** First of its type in the community. Serves as pilot project, beta test and raises public awareness.