



Green Infrastructure & Stormwater Management CASE STUDY

Owens Corning Stormwater Retrofit

Location: Portland, OR

Client: Owens Corning Corporation; City of Portland, Environmental Services

Design Firm(s): Nevue Ngan Associates

Landscape architect/Project contact: Kevin Robert Perry, ASLA

Email: kevin@nevuengan.com

ASLA Chapter: Oregon



Project Specifications

Project Description: Completed in 2008, the Owens Corning Stormwater Retrofit project is the most extensive stormwater retrofit of a private industrial site in Portland. The site consists of a multiple stormwater planters, a stormwater swale, a rain garden and roof downspout

disconnections to manage runoff from the site's building rooftop and parking lot area. The project has received widespread attention and it is the hope that this project will serve as a demonstration project for other industrial sites to follow. In addition to the private, on-site stormwater improvements, a series of stormwater curb extensions were also installed within the R.O.W. as a separate City of Portland project.



Project Type:

Industrial

A retrofit of an existing property

Design features: Rain garden, bioswale, and downspout removal.

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: less than 5,000 sq/ft

The regulatory environment and regulator was supportive of the project.

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: \$50,000-\$100,000 (Public funding: Federal, regional, local)

Was a green vs. grey cost analysis performed? No

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:

There has yet to be any monitoring of this site, but visual observation shows that nearly 100% of the captured stormwater runoff is managed on-site.

Community & economic benefits that have resulted from the project: This project enhanced the overall property value and provided a better working environment for the employees at the Owens Corning site.

