



# Green Infrastructure & Stormwater Management CASE STUDY

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## EPA Technical Assistance and Design Guidebooks

**Location:** Sussex County, Delaware, Sanitary District No. 1 of Northern Kentucky

**Client:** U.S. Environmental Protection Agency

**Design Firm(s):** Nevue Ngan Associates; Van Meter Williams Pollack

**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 design team assisted the United States Environmental Protection Agency's Smart Growth Division in the development of stormwater design guidebooks for Sussex County, Delaware and the Sanitary District No. 1 of Northern Kentucky. The design guidebooks incorporate the concepts of Smart Growth and Low Impact Development at the

regional, community, and site-specific scales. For both Delaware and Kentucky, the design team participated in community design workshops in order to help inspire and educate policy makers, developers, designers, and the general public on the benefits of using green streets and other sustainable stormwater design strategies. The guidebooks contain user-friendly design graphics and language including a series of “before and after” perspective sketches of potential green street, parking lot, and building demonstration projects located throughout the local area. The success of these guidebooks has prompted the U.S. EPA to use the illustrations from the guidebooks to create a green street fact sheet for a national audience.

**Project Type:**

Other (please specify)

Part of a redevelopment project

**Design features:** Bioretention facility, rain garden, bioswale, green roof, cistern, rain barrels, downspout removal, porous pavers, curb cuts, and all other green street elements as well.

**This project was designed to meet the following specific requirements or mandates:** Not applicable

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

**Cost & Jobs Analysis**

**Estimated Cost of Stormwater Project:** \$10,000-\$50,000 (Public funding: Not available)

**Related Information:** Not applicable

**Number of jobs created:** Not available

**Job hours devoted to project:**

Planning and Design: Not available

Construction: Not available

Annual Maintenance: Not available

**Additional Information**

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