

SEATTLE GREEN INFRASTRUCTURE INNOVATION

CASE STUDY SERIES

Ballard Natural Drainage Systems Project II

2015

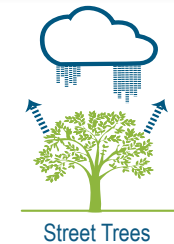


17th and 26th. Ave. NW between NW 83rd St. and NW 77th St.
19th Ave. NW between NW 77th St. and NW 75th St.
NW 75th between Jones Ave. NW and 17th Ave. NW

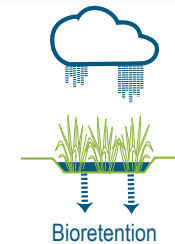
PERFORMANCE SNAPSHOT

- Prevents an average of 1 million gallons of combined sewage and stormwater from entering Seattle's waterways annually.
- Structural soil cells under the sidewalk provide additional surface area for infiltration.

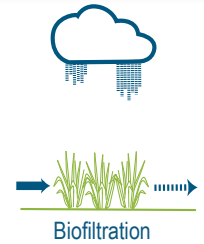
GREEN INFRASTRUCTURE TECHNOLOGY TYPES



Street Trees



Bioretention



Biofiltration

INNOVATION HIGHLIGHTS



Design Innovation

The use of one vertical wall adjacent to the sidewalk and structural soil cells under the sidewalk reduces the overall project footprint. New aesthetic details like Corten steel mesh in the vertical wall and artful inlet covers add visual interest to the public streetscape.



Community Engagement

The design team, Seattle Department of Transportation's Safe Routes to School program, and community representatives worked closely together to calm traffic and improve crossing safety near Loyal Heights Elementary via the use of curb bulbs.



PROJECT DETAILS

IMPERVIOUS SURFACE MANAGED	239,580 sq. ft.
DRIVER	Reduce the combined sewer overflow (CSO) storage volume required for the Ballard CSO Basin
OWNER	Seattle Public Utilities
FUNDER	Seattle Public Utilities
GREEN INFRASTRUCTURE COST	\$5,676,000
PROJECT TEAM	HDR Engineering, Inc., Jansen, Inc.
MAINTAINED BY	Seattle Public Utilities

MORE INFORMATION

<http://www.seattle.gov/util/EnvironmentConservation/Projects/BallardNaturalDrainage/index.htm>



Seattle



King County