

SEATTLE GREEN INFRASTRUCTURE INNOVATION

CASE STUDY SERIES

Thornton Creek Confluence Project

Between 35th and 36th Ave NE and NE 110th and NE 105th Street, Seattle, WA 98125

2014



PERFORMANCE SNAPSHOT

- Urban restorative flood mitigation and restoration of 6-acre floodplain with reconstruction of over 1,000 ft. of stream channel and installation of a 30-ft. wide culvert under an arterial roadway.
- Improved wildlife habitat with native riparian plantings including over 600 new trees and 3,800 new shrubs

GREEN INFRASTRUCTURE TECHNOLOGY TYPES



Floodplain Reconnection

INNOVATION HIGHLIGHTS



Located on the most productive salmonid habitat in the City, this first-of-its-kind project in the United States improved the Thornton Creek Confluence to restore water quality, improve fish and wildlife habitat, and reduce local flooding by reconnecting Thornton Creek to its historic floodplain.

Over 160 logs installed in the channel are intended to create spawning and rearing habitat for endangered Chinook and Coho Salmon, resident cutthroat trout and peamouth.

The design of the channel allows for incoming sediment and debris to transport through the system, restoring natural function to this highly urbanized creek.



Public Space





PROJECT DETAILS

TOTAL STORAGE CAPACITY:	110,000 cubic feet
DRIVER	Flood Management and Habitat Restoration
OWNER	Seattle Public Utilities
FUNDER	Seattle Public Utilities
GREEN INFRASTRUCTURE COST	\$7.6 million
PROJECT TEAM	Natural Systems Design, Osborn Consulting Inc., Cardo Entrix, MIG SvR, Shearer Design
MAINTAINED BY	Owner

MORE INFORMATION

<http://naturaldes.com/portfolio/thornton-creek-confluence-restoration-seattle-washington/>