SEATTLE GREEN INFRASTRUCTURE INNOVATION

CASE STUDY SERIES

Bertschi School Living Science Building

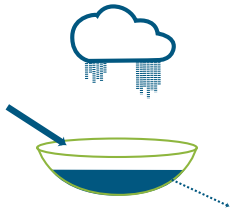
2011

2227 Tenth Avenue East, Seattle, WA 98102

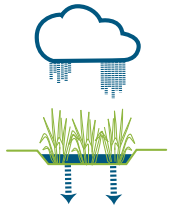
PERFORMANCE SNAPSHOT

- This project features two cisterns: a 2,200-gallon indoor cistern and a 2,500-irrigation cistern in the garden.
- An indoor green wall treats all greywater created on site.

GREEN INFRASTRUCTURE TECHNOLOGY TYPE



Cistern + Reuse



Raingardens

Pervious Pavement

INNOVATION HIGHLIGHTS

Design Innovation

The building follows a 'Net Zero Water' design imperative that requires it to treat all stormwater and greywater on site, in addition to capturing rainfall for classroom needs.

Public Education

Educational signs are integrated throughout the site to increase awareness about how the sustainable systems function. Children interactively learn about their environmental impact through water testing and cistern

Funding Partnership

Professionals from the Seattle region donated both their time and expertise to join the cross-disciplinary team that led the design and implementation of this project.

Indoor green wall used for Greywater treatment and education

Students monitoring the indoor potable water cistern as part of class curriculum

Indoor 'runnel' river directing water from the rooftop to the underground cistern

Underground cistern for irrigation covered in foliage and footpath (see

PROJECT DETAILS

IMPERVIOUS SURFACE MANAGED	3888 sq. ft.
DRIVER	Provide an interactive approach to teaching sustainability
OWNER	Bertschi School
FUNDER	Bertschi School
CONSTRUCTION COST	$935,000
PROJECT TEAM	GeoEngineers, 2020 Engineering, GGLO, Quantum Consulting Engineers, KMD Architects, Rushing, O'Brien and Company, Back to Nature Design LLC, Morrison Hershfield
MAINTAINED BY	Bertschi School

MORE INFORMATION

https://www.bertschi.org/who-we-are/our-campus/science-wing/