

Be RainWise rebates for rain gardens & cisterns

Big Roof Case Study



Seattle
Public
Utilities



King County

The Valley School

318 30th Ave E



Valley School is situated in what used to be an old Madison Valley orchard.



Each building blends with the character of the neighborhood and provides ample playground space.

Contractor:
Rain Dog Designs



Six cisterns across
three buildings



6,294.45 ft² of
roof captured



\$20,719.20
rebated



Completed in
2017

Project Summary

Located in the Madison Valley neighborhood of Seattle, The Valley School's mission focuses on imaginative thinking, the practice of kindness and intellectual exploration in elementary age children. The Valley School's RainWise installation spans across three buildings, managing rainwater runoff from a total of nearly 6,300 square feet of roof area. The project

- creates an educational opportunity to help children learn about the water cycle and water conservation,
- provides detention and infiltration of the existing roof area,
- generates substantial water storage for summer landscape irrigation, and
- protects Lake Washington from combined sewer system overflows.

The project was completed in October 2017, with a total of \$20,719.20 covered by the RainWise rebate program.

For more information, please visit: rainwise.seattle.gov

Alternative Formats Available—Call 206-633-0224 or TTY:711

The Valley School

Project Specifications



Building 1 Two 1,320-gallon Bushman cisterns with overflow to side sewer.



Building 2 Two 1,110-gallon Bushman cisterns with overflow to side sewer.



Building 3 Two 420-gallon Bushman cisterns with overflow to side sewer.

The Valley School campus is spread out over eight city lots and comprises of classrooms, a library, meeting space, and administrative buildings. Each building is unique and required different calculations for cistern size and placement. However, each RainWise installation captures the entire roof area, with **Building 1** capturing 2,862 square feet, **Building 2** capturing 2,183 square feet, and **Building 3** capturing 1,249 square feet. This comes to nearly 6,300 square feet of roof area that keeps almost 140,000 gallons of stormwater out of Lake Washington every year.

Valley School's contractor, Rain Dog Designs completed the project from start to finish in about six months.

Environmental Education & Stakeholder Collaboration

The Valley School used their cistern installation projects to engage children in building activities and learning about the problem of polluted water in the Puget Sound region. In addition to community awareness, RainWise cistern and raingarden projects serve as educational opportunities for students of all ages in academic institutions.

The project partners include school leadership, King County staff, RainWise outreach staff and the creative design talents of the RainWise contractor, Rain Dog Designs.



Children help with cistern installation.

About RainWise

RainWise is a joint program between Seattle Public Utilities and King County Wastewater Treatment Division that provides rebates for rain gardens and cisterns to private property owners in eligible areas. Rain gardens and cisterns help control stormwater, reducing sewer overflows and the erosion of hillsides and stream banks. We'll help you determine if your property qualifies.

For more information, please visit: rainwise.seattle.gov



Case study completed by Urban Systems Design. Contact us at 206-678-2604 or email at Sonja.rainwise@gmail.com.