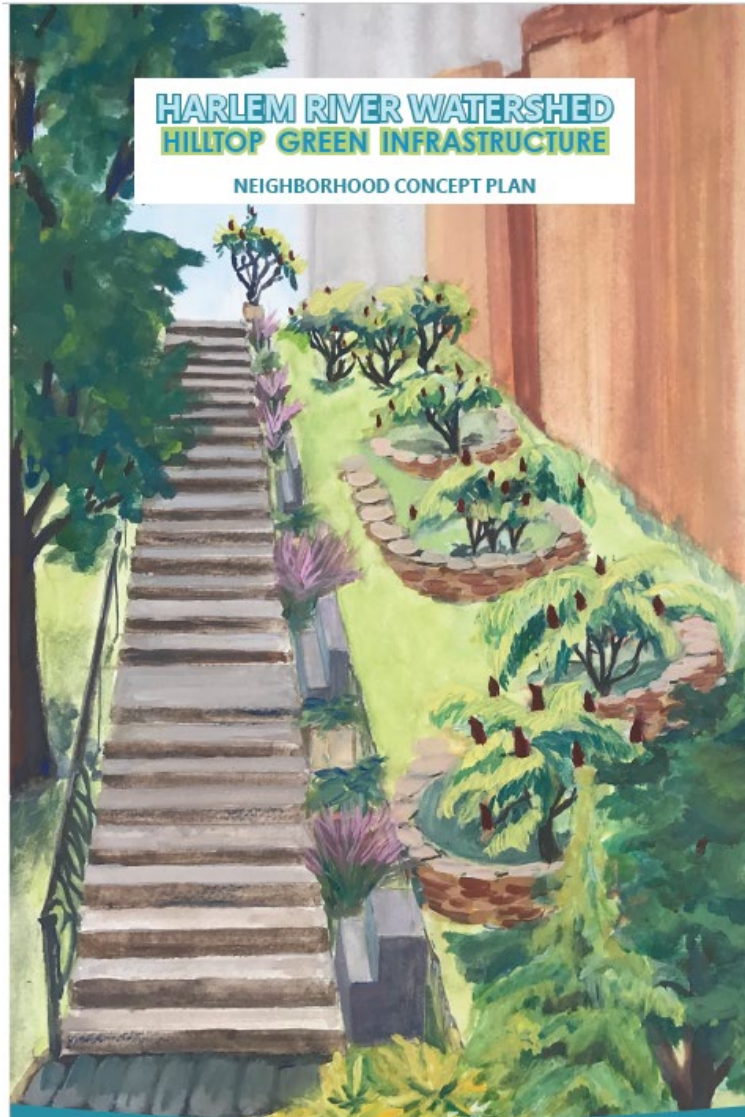


# HARLEM RIVER WATERSHED HILLTOP GREEN INFRASTRUCTURE

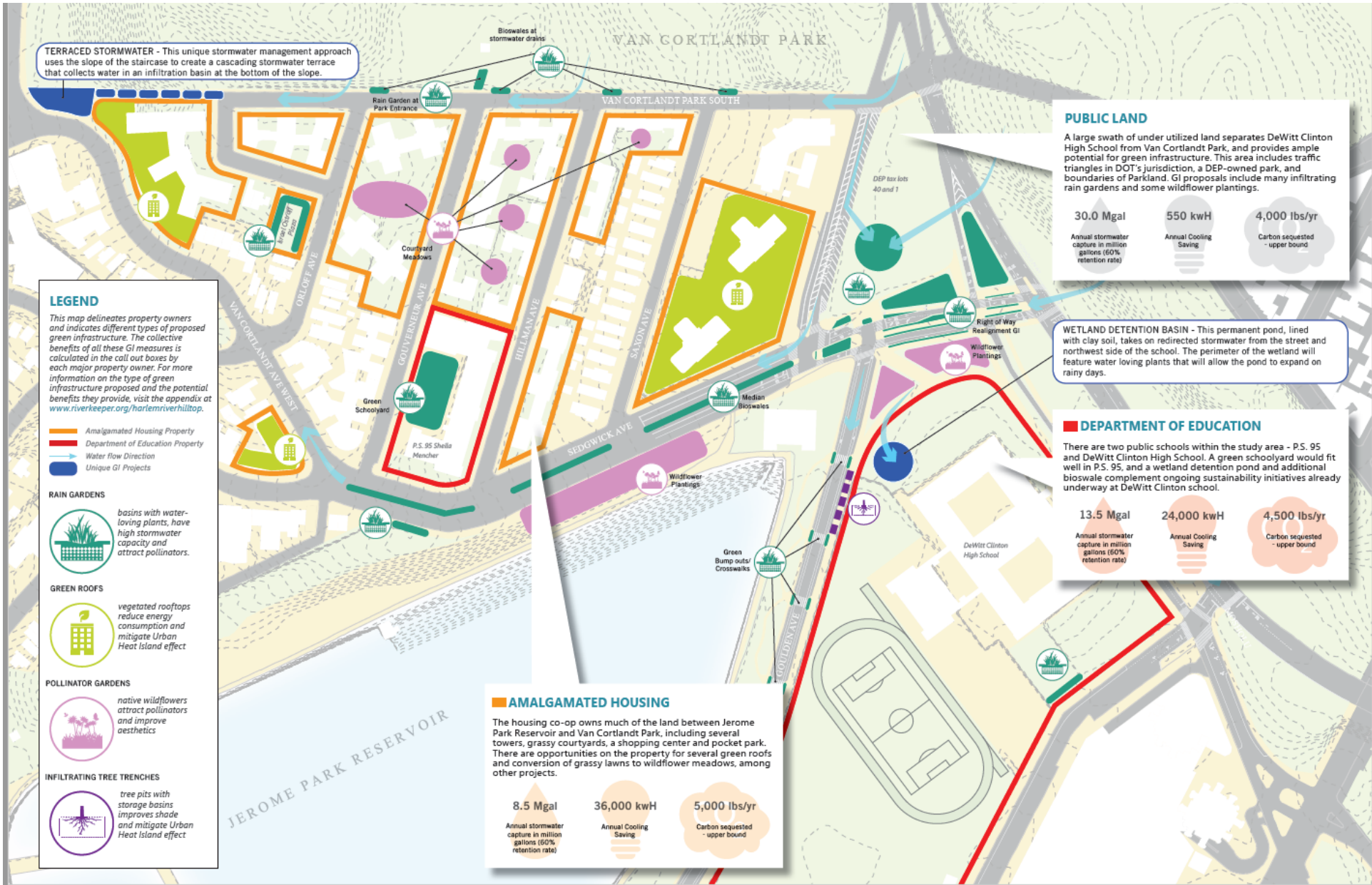
NEIGHBORHOOD CONCEPT PLAN



JUNE 2018



in collaboration with  
**PERKINS+WILL**



**TERRACED STORMWATER** - This unique stormwater management approach uses the slope of the staircase to create a cascading stormwater terrace that collects water in an infiltration basin at the bottom of the slope.

**PUBLIC LAND**

A large swath of under utilized land separates DeWitt Clinton High School from Van Cortlandt Park, and provides ample potential for green infrastructure. This area includes traffic triangles in DOT's jurisdiction, a DEP-owned park, and boundaries of Parkland. GI proposals include many infiltrating rain gardens and some wildflower plantings.

30.0 Mgal	550 kWh	4,000 lbs/yr
Annual stormwater capture in million gallons (60% retention rate)	Annual Cooling Saving	Carbon sequestered - upper bound

**WETLAND DETENTION BASIN** - This permanent pond, lined with clay soil, takes on redirected stormwater from the street and northwest side of the school. The perimeter of the wetland will feature water loving plants that will allow the pond to expand on rainy days.

**DEPARTMENT OF EDUCATION**

There are two public schools within the study area - P.S. 95 and DeWitt Clinton High School. A green schoolyard would fit well in P.S. 95, and a wetland detention pond and additional bioswale complement ongoing sustainability initiatives already underway at DeWitt Clinton school.

13.5 Mgal	24,000 kWh	4,500 lbs/yr
Annual stormwater capture in million gallons (60% retention rate)	Annual Cooling Saving	Carbon sequestered - upper bound

**AMALGAMATED HOUSING**

The housing co-op owns much of the land between Jerome Park Reservoir and Van Cortlandt Park, including several towers, grassy courtyards, a shopping center and pocket park. There are opportunities on the property for several green roofs and conversion of grassy lawns to wildflower meadows, among other projects.

8.5 Mgal	36,000 kWh	5,000 lbs/yr
Annual stormwater capture in million gallons (60% retention rate)	Annual Cooling Saving	Carbon sequestered - upper bound

**LEGEND**

This map delineates property owners and indicates different types of proposed green infrastructure. The collective benefits of all these GI measures is calculated in the call out boxes for each major property owner. For more information on the type of green infrastructure proposed and the potential benefits they provide, visit the appendix at [www.riverkeeper.org/harlemriverhilltop](http://www.riverkeeper.org/harlemriverhilltop).

- Amalgamated Housing Property
- Department of Education Property
- Water flow Direction
- Unique GI Projects

**RAIN GARDENS**

basins with water-loving plants, have high stormwater capacity and attract pollinators.

**GREEN ROOFS**

vegetated rooftops reduce energy consumption and mitigate Urban Heat Island effect

**POLLINATOR GARDENS**

native wildflowers attract pollinators and improve aesthetics

**INFILTRATING TREE TRENCHES**

tree pits with storage basins improves shade and mitigate Urban Heat Island effect