

Collings Lakes Elementary School



Subwatershed: Collings Lakes

Site Area: 886,257 sq. ft.

Address: 620 Cains Mill Road
Williamstown, NJ 0894

Block and Lot: Block 502, Lot 5



A rain garden can be installed west of the main entrance of the school to capture, treat, and infiltrate rooftop runoff. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.





Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
12	102,806	5.0	51.9	472.0	0.080	2.82

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.125	21	9,180	0.34	1,200	\$6,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



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-  bioretention system
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS

