Chesapeake Bay Trust Green Streets, Green Towns, Green Jobs Grant (G3) for nearly $40k. Awarded to Antietam-Conococheague Watershed Alliance (ACWA), Chesapeake Conservation Landscaping Council (CCLC) and HCC

- Grant funds includes training for HCC and regional maintenance crews and stormwater professionals by Chesapeake Bay Landscape Professionals. This course provides professional development on how to maintain stormwater best management practices with specialized planting. Includes plant ID and hands-on green infrastructure visits around campus.
- There are 11 microbioretention swales in Parking Lot O. All plants installed entirely by volunteers.
- Over 7000 plants installed during the 7 volunteer events with 23 different native perennial and shrub species in the entire project.
- Each swale is planted a bit differently and includes different mulching and deer protection such as sprays, fencing, and deer resistant plants.
- Educational signage will be installed in two locations
- Chesapeake Bay Landscape Professional (CBLP)- Crews training 10/30/24 9am-3pm @HCC
- Spring maintenance with some additional plants will occur around Earth Week.

Before

After

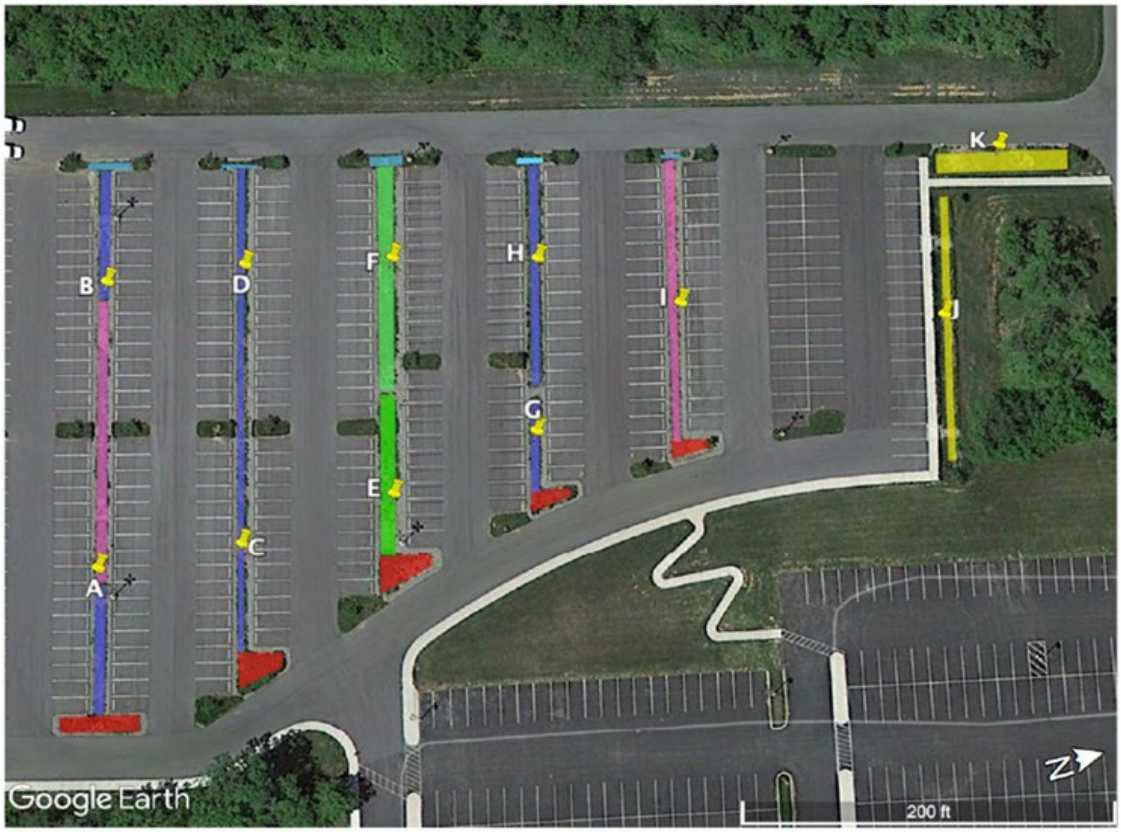


Figure 8: HCC micro-bioretention swales A-K color coded for planting scheme. See Planting Legend for details.

Swale ID	Dimensions (SF)	Planting scheme	Mulch	Deer Protection
A	1261	Block matrix mix of perennial plugs and herbaceous perennials in containers	Jute	None
B	1274	Block matrix mix of perennial plugs and herbaceous perennials in containers	Jute	Physical wire fence
C	823	Block matrix mix of perennial plugs	Pine Straw	None
D	650	Block matrix mix of perennial plugs	Pine Straw	Physical wire fence
E	1220	Block matrix mix of woody shrubs	Hardwood Mulch	None
F	1236	Block matrix mix of woody shrubs	Hardwood Mulch	Bobbex perimeter spray
G	449	Block matrix mix of perennial plugs	Hardwood Mulch	none
H	697	Block matrix mix of perennial plugs	Hardwood Mulch	Bobbex perimeter spray
I	975	Block matrix mix of herbaceous perennials in containers	Hardwood Mulch	Emphasis on deer tolerant species
J	700	Block matrix mix of salt-tolerant grasses and perennials	green mulch species	none
K	852	Block matrix mix of salt tolerant grasses and perennials	green mulch species	Bobbex perimeter spray
TOTAL	**10,137 SF**			

(Draft of signage)

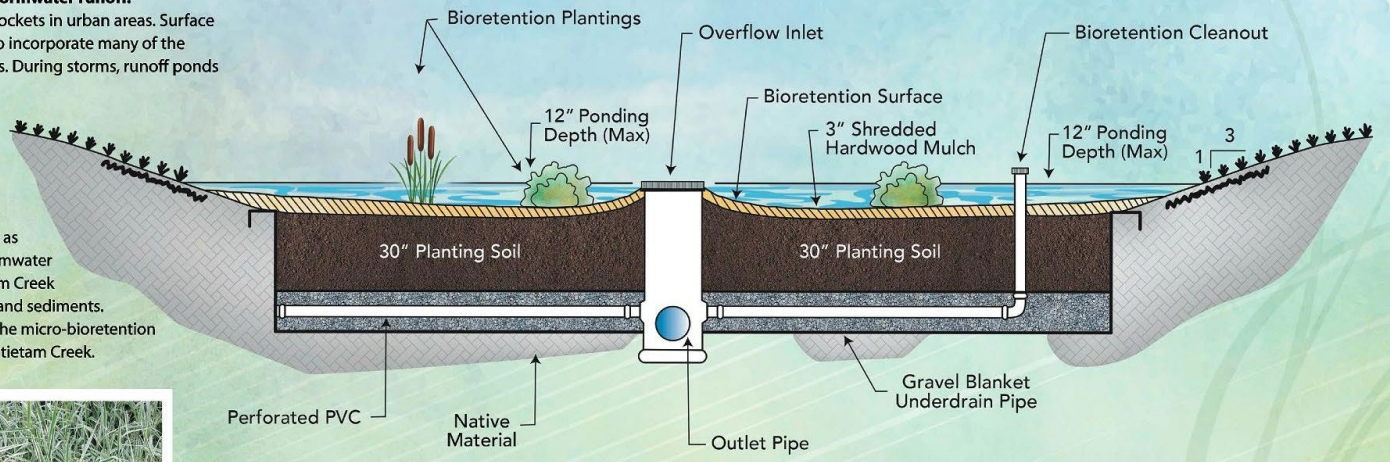
A GREEN Solution

Helping to Reduce the Impact of Stormwater Pollution on the Environment

How Do These Microbioretention Structures Work?

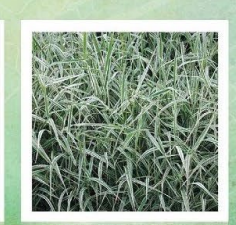
Bioretention areas are landscaped features designed to treat stormwater runoff. They are commonly located in parking lot islands or within small pockets in urban areas. Surface runoff is directed into shallow, landscaped depressions designed to incorporate many of the pollutant removal mechanisms that operate in forested ecosystems. During storms, runoff ponds above the mulch and soil in the system.

Micro-bioretention swales capture and treat runoff by passing it through a mixture of sand, soil, and organic matter. In HCC's Lot O, the filtered stormwater is partially filtered into the soil and directed to the stormwater conveyance system. The collected stormwater in these swales are designed to drain within 24-48 hours after a rain event. The plants in the swale enhance the nutrient (such as nitrogen and phosphorus) and pollutant uptake. Ultimately, the stormwater runoff from HCC parking lot O is discharged to a tributary of Antietam Creek which is impaired by fecal bacteria, low dissolved oxygen, nutrients and sediments. The reduction of sediment, nutrients, and other runoff pollution by the micro-bioretention swales will contribute to the overall protection of water quality in Antietam Creek.




Thread Leaf Coreopsis


Blue Flag Iris


Cape Breeze Switchgrass

Native Plants

The native plants in this bioretention structure are adapted to local conditions, need little maintenance and water, and need no fertilizer or pesticides. Native plants create an important habitat for butterflies, bees, birds and other wildlife.

Bioretention Area

at Hagerstown Community College

Project funded by: Chesapeake Bay Trust; United States Environmental Protection Agency; Chesapeake Bay Program (Science. Restoration. Partnership.)

These MicroBioRetention Structures were funded in part by the Bipartisan Infrastructure Law

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Hagerstown Community College

Antietam-Conococheague Watershed Alliance

CBLP CHESAPEAKE BAY Landscape Professional

Sustainable Stormwater BMP Management

A one-day workshop from The Chesapeake Bay Landscape Professional program

Wednesday, October 30th 2024

9:00 am - 3:00 pm

Hagerstown Community College, Hagerstown, MD

Cost ~~$200~~ **$25**

Lunch Included

Designed for maintenance crew and crew leaders who have not completed CBLP level 1 Training

Focus on engagement, interaction and hands on learning

Topics include managing invasive plants, BMP maintenance tasks, best plants for BMPs

Participants will receive the CBLP-CREWS certificate

Funding support from The United States Environmental Protection Agency Region 3, Chesapeake Bay Program, and the Chesapeake Bay Trust through a collaboration with ACWA and HCC

Chesapeake Bay Trust

HAGERSTOWN COMMUNITY COLLEGE

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https://certified.cblpro.org/product/private-cblp-crews/