Planting and Maintaining Your Rain Garden



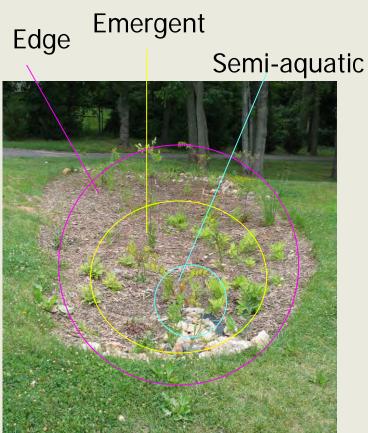
The Rain Garden Environment

Are rain gardens wet?

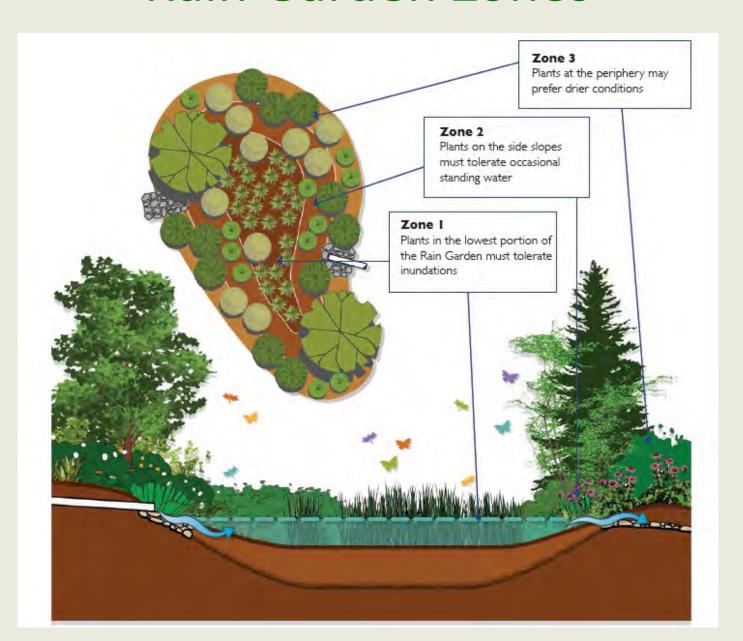


Rain Garden Zones





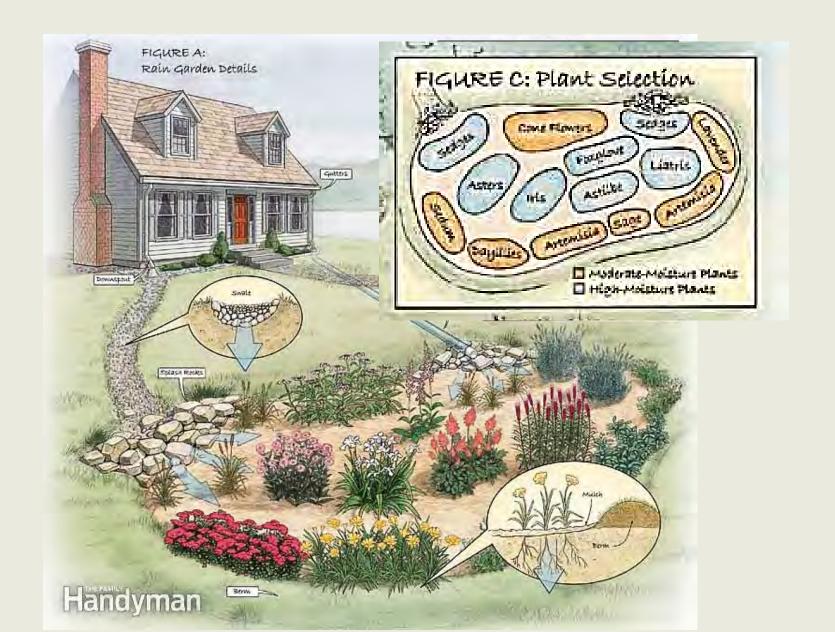
Rain Garden Zones



Where are your wet spots?



Plants for Inlets & Flow Paths



Plants for Inlets & Flow Paths



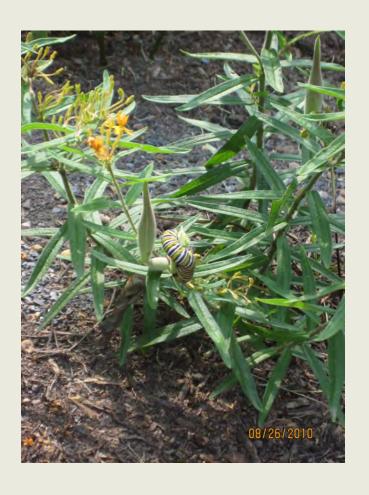
Pollutants in the Rain Garden



- Nutrients (Nitrogen and Phosphorus)
- Heavy Metals (Copper)
- Salt, Deicers, Sand
- Car fluids (Gasoline, Antifreeze, Oil, etc.)
- Pesticides & Herbicides

Use Native Plants

- Adapted to local conditions, including soils & precipitation
- Don't require inputs of chemical fertilizers & pesticides
- Save time and money
- Provide the habitat wildlife, including pollinators, need
- Beautiful!



http://www.nps.gov/plants/pubs/chesapeake/toc.htm http://www.plantnovanatives.org/

Avoid Invasive Plants

An **invasive non-native plant** is "a species introduced by human activity... which aggressively competes with, and displaces, locally adapted native plant communities.

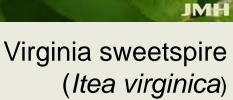
- Displace native species
- Reduce wildlife habitat
- Alter ecosystem processes
- Maintenance nightmare!



https://www.invasive.org/alien/pubs/midatlantic/midatlantic.pdf http://www.dcr.virginia.gov/natural_heritage/invspinfo.shtml











http://www.mobot.org/gardeninghelp/plantfinder/serviceplantfinder.shtml

Black Chokeberry (*Aronia melanocarpa*) Red Chokeberry (*Aronia arbutifolia*)





Arrowwood viburnum (*Viburnum dentatum*) Possumhaw viburnum (*Viburnum nudum*)





Black-eyed susan (Rudbeckia fulgida var. fulgida)

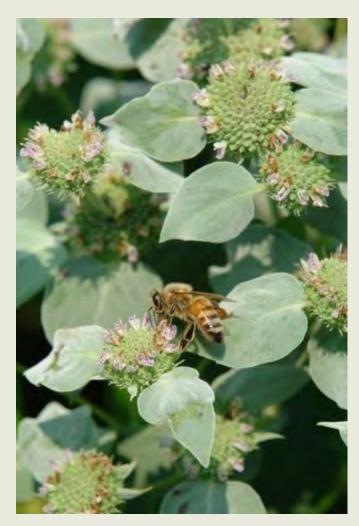


Joe Pye weeds (*Eutrochium* spp.) Formerly *Eupatorium* spp.





Narrow-leaved mountain mint (*Pycnanthemum tenuifolium*)



Short-toothed mountain mint (*Pycnanthemum muticum*)

Switchgrass (Panicum virgatum)





More Winning Plants - Shade

- Smooth hydrangea (Hydrangea arborescens)
- Elderberry (Sambucus canadensis)
- Foamflower (*Tiarella cordifolia*)
- Turtlehead
- Ferns Cinnamon fern (Osmunda cinnamomea), Wood ferns (Dryopteris spp), Sensitive fern (Onoclea sensibilis)









More Winning Plants - Sun

- Cardinal flower (Lobelia cardinalis)
- New York ironweed (Vernonia noveboracensis)
- Milkweeds Asclepias incarnata (swamp) and Asclepias tuberosa (butterfly weed)
- Beebalm (Monarda fistulosa and Monarda didyma)
- New England aster (Symphotrichum novae-angliae)
- Summer phlox (Phlox paniculata) and creeping phlox (Phlox stolonifera)









More Winning Plants – Inlets

- Upland sea oats (Chasmanthium latifolium)
- Switch grass (Panicum virgatum)
- Little bluestem (Schizachyrium scoparium)
- Soft rush (Juncus effusus)
- Pennsylvania sedge (Carex pensylvanica), Tussock sedge (Carex stricta) and other sedges (Carex spp.)
- Blue flag (Iris versicolor)









Pots, Plugs or Seeds?





Plugs are best for...

- Gardeners who don't mind a wait
- Sharing with a group or large gardens
- Typically planted 12" on center

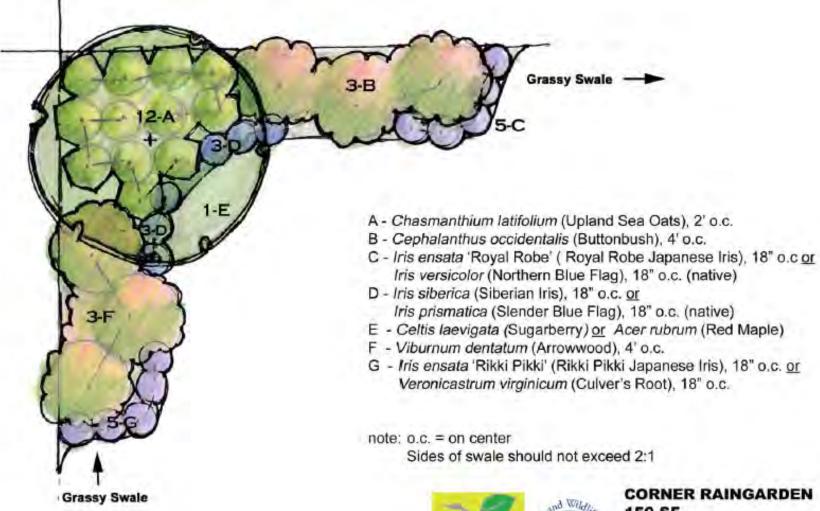
Containers are best for...

- Immediate gratification
- Spacing depends on mature size
- For herbaceous plants, 15-36" on center

A Few Design Tips

- "A well-designed rain garden doesn't look like a rain garden."
- Rule of 3 each plant should have at least 3 features you enjoy
- Plant in clumps of 3 7 to create bold color, cohesion and pattern.
- Use your edges.
- Plant densely, but plan for mature size and form.
- Remember the 4 seasons.
- Variety & contrast create interest.

http://lowimpactdevelopment.org/rain-garden-templates-for-maryland/ http://aawsa.org/conservation-design-tool





150 SF

Full Sun All zones, Piedmont

Scale: 1/4"=1







Maintaining Your Rain Garden



Maintaining Your Rain Garden

- Water the plants until established
- Observe during and after rain check for standing water
- Monitor inflow/outflow/berm & repair as needed
- Weed the garden
- Monitor/replace plants
- Add mulch

Short Term Maintenance

- You DO need to water the plants if it doesn't rain, especially for the first year.
- Observe the garden during and after storms.
- Check to make sure the garden is draining within 48 hours.
- Look for signs of erosion at the inflow, outflow, or berm and correct as needed (add stone or re-grade).



Observe during and after storms







Check inflow area for erosion





Longer Term Maintenance

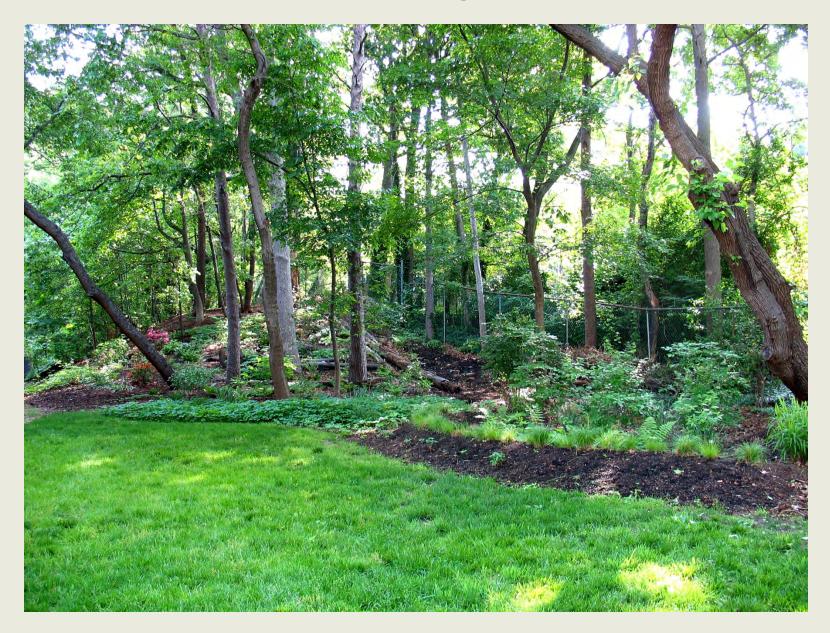
- Mulching
- Berm
- Weeding
- Monitoring the plants

Refresh the wood mulch in the garden's top layer in the spring and fall, to enrich the soil and control weeds.





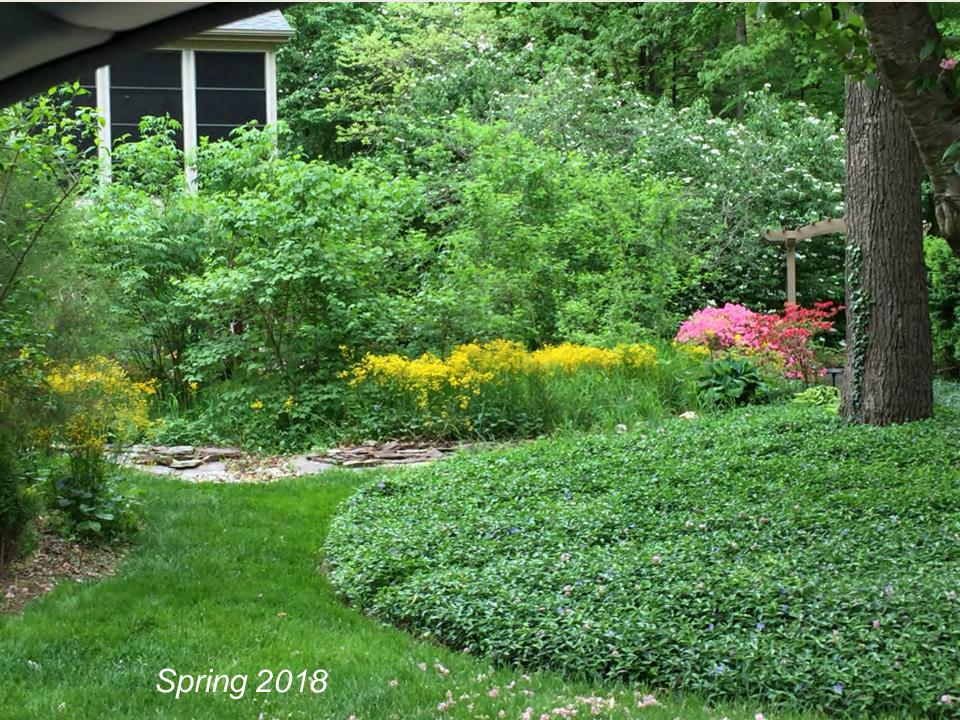
Maintaining the Berm





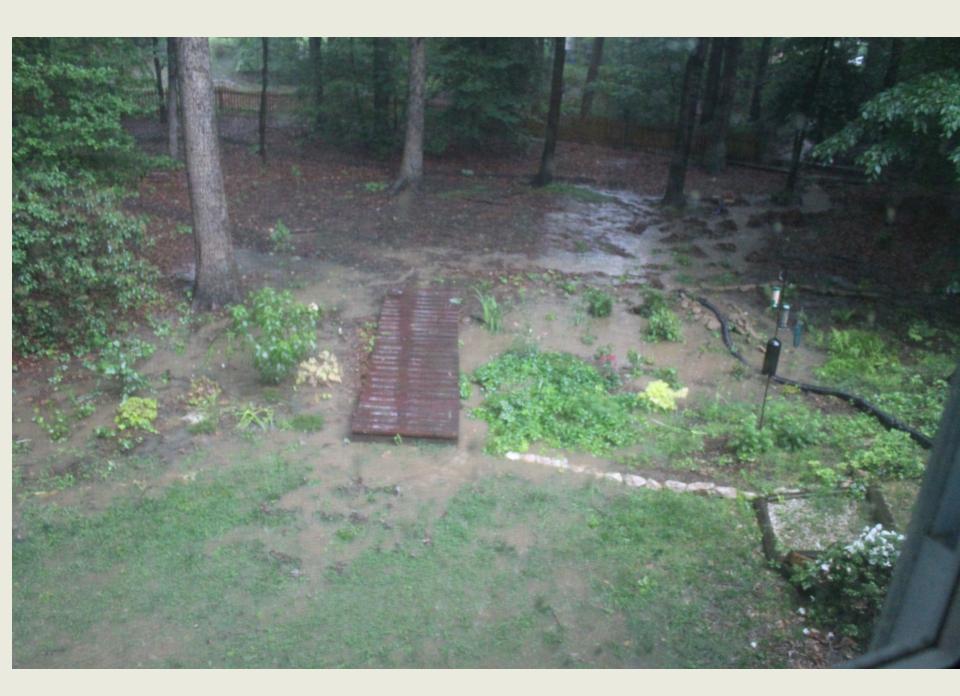






Monitoring the Plants

- Remove weeds. Planting in clumps makes it easier to identify the weeds.
- You may want to mark the locations of your plants in the fall, especially small ones, so you can easily identify them in the spring.
- Replace any plants that do not survive.
- Use sturdier plants near the inflow (higher energy).
- As plants get larger, divide them. You may find volunteers as well.







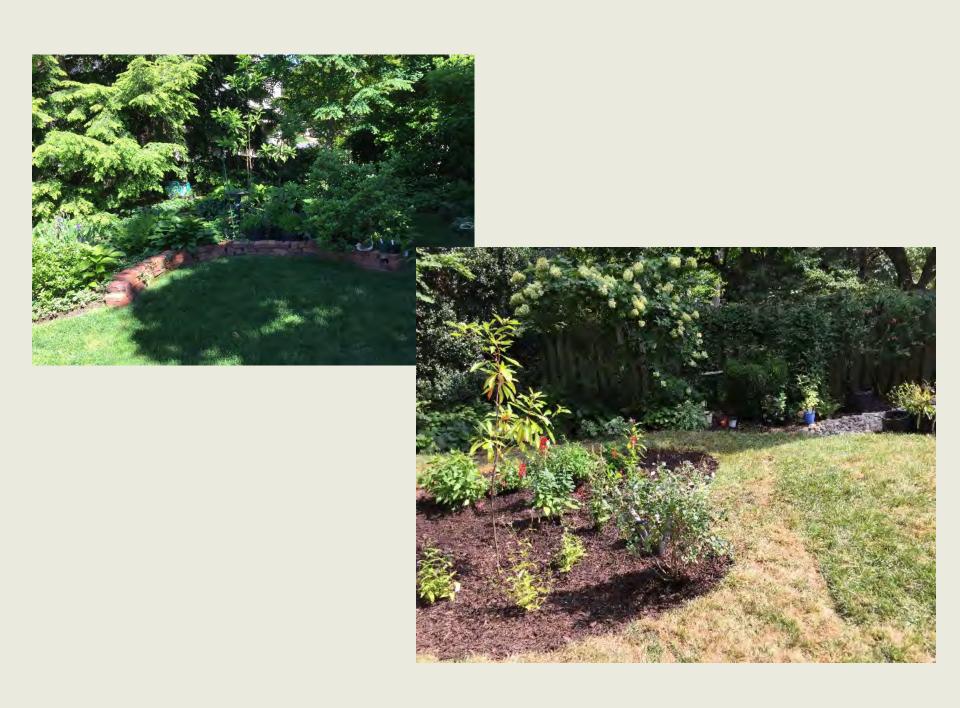
Tuckahoe Townhouses



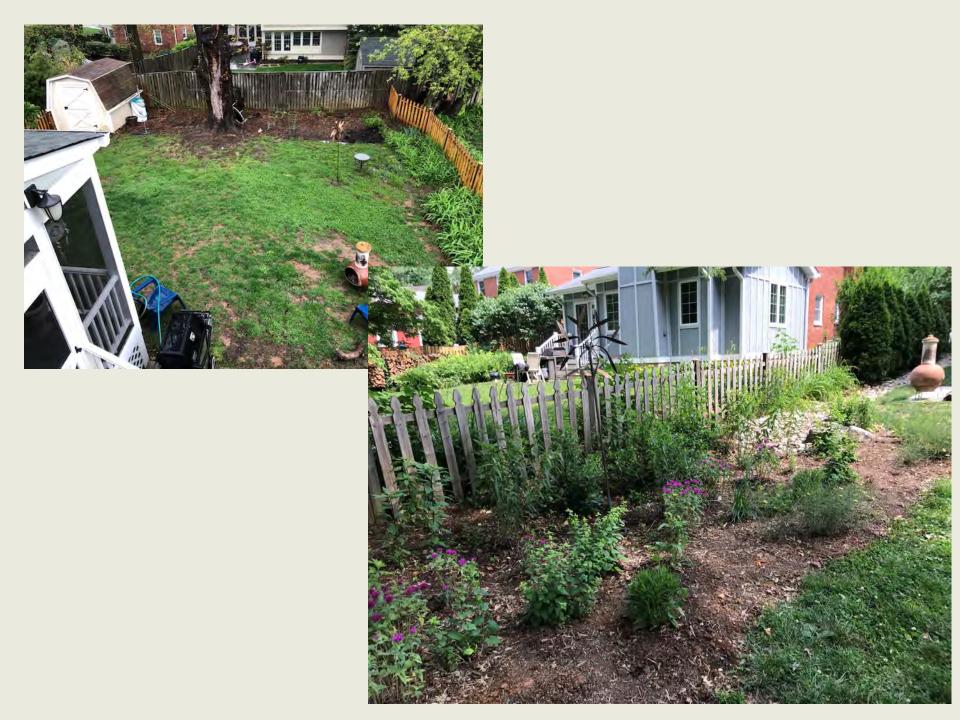


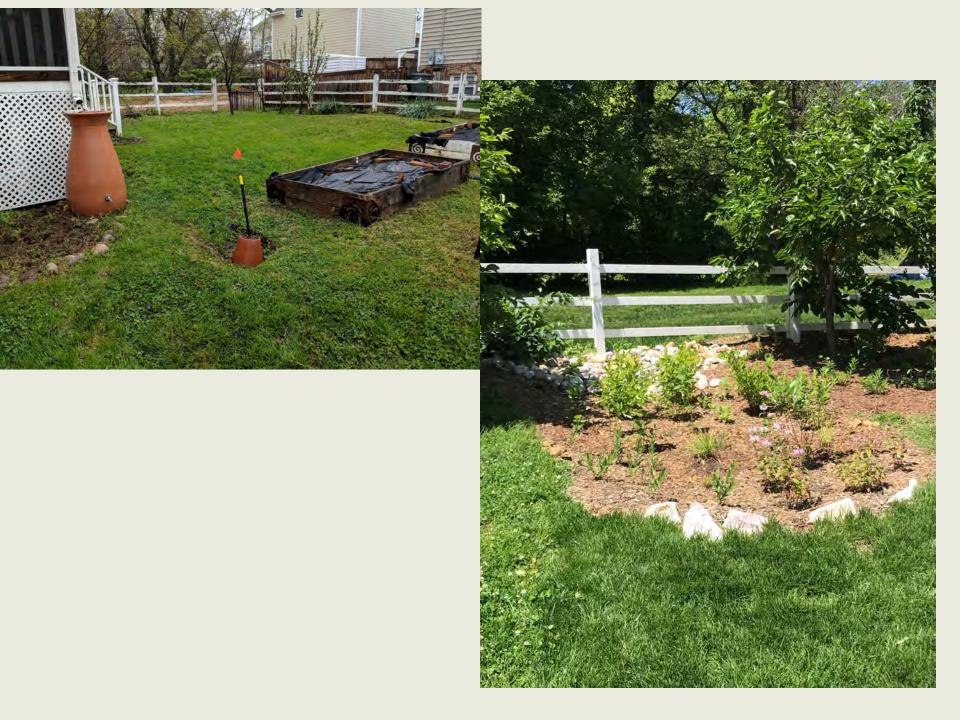


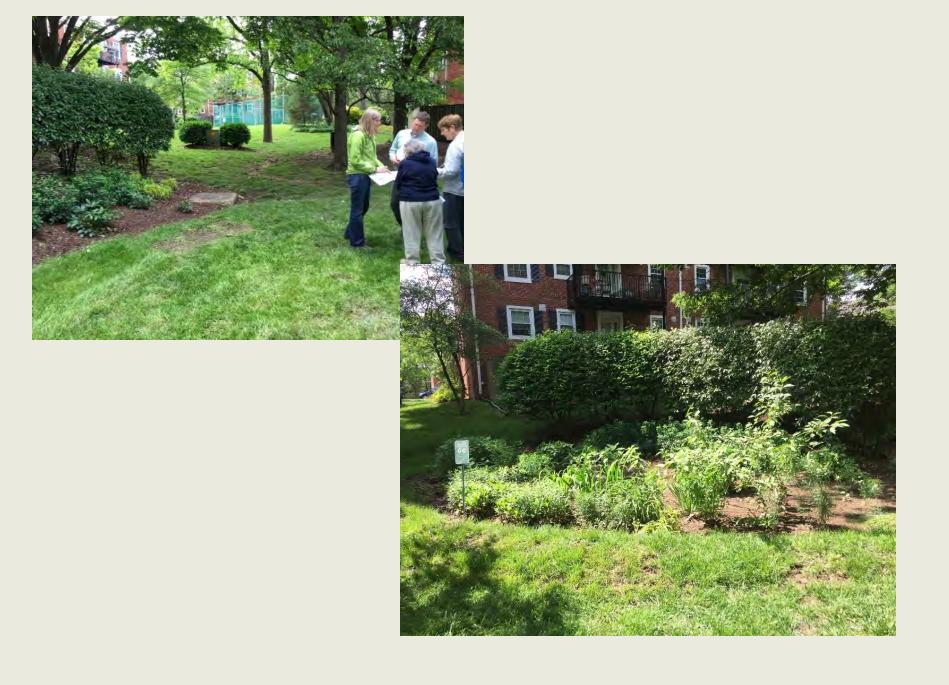














Virginia Conservation Assistance Program (VCAP)

- Cost-share grants of up to \$3500 are available for landowners in Fairfax and Alexandria for rain gardens, subject to state fund availability.
- Proposals are reviewed by the state-wide
 VCAP committee for funding consideration.
- Application period for 2022 grants will open July 2021.
- Other conservation practices are funded under the VCAP as well.

For More Information on VCAP

- https://www.fairfaxcounty.gov/soil-waterconservation/conservation-assistanceprograms
- Or email conservationdistrict@fairfaxcounty.gov



Other Learning Opportunities

Green Home and Garden Tour – 1st Sunday in June in Arlington and 2nd Sunday in Fairfax. www.ecoactionarlington.org

Rain Barrel workshops-

https://www.fairfaxcounty.gov/soil-water-conservation/rain-barrel

Questions?

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