

Catch The Rain



Area of heavy thistle infestation

(top) existing naturalized area with Canada thistle infestation; (bottom left and right) two areas where erosive water flow has caused erosion gullies.

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(top and bottom) Areas around ponds could be naturalized instead of mowed up to the edge.

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RECOMMENDATIONS SUMMARY

	Feasible Tools	
	Natural Area Enhancements/Conservation Landscaping	Stream/Swale Restoration
Location:	Multiple existing areas on course that could be enhanced and expanded	Multiple areas where the stream has been piped to artificial ponds.
Size:	NA	
Stormwater Managed	NA	
Approximate Cost ¹ :	\$6000/acre (estimate from work done by UD – this does not include labor if contracted out)	\$200/linear foot (on average)
Landowner Preference:	Onsite Staff a/o outside Contractor	Consultant/Contractor
Comments ² :	<p>The current natural areas are just less frequently mowed. Several invasive species have moved in like Canada thistle. These should be treated and then reseeded with a native seed mix. Susan Barton at University of Delaware would be a good consultant. Weeds Inc – is an outside contractor that specializes in invasive management and meadow seeding.</p> <p>In the meantime the thistle should be mowed (usually mid-late May) before flowering to prevent additional seeding. If you wait to mow until the flowers are present and leave them in the area they can still go to seed. You may need to mow more than once. Lontrel is herbicide specifically targeted to thistle.</p> <p>Reference: Paul Sted at Kennett Golf Course, 484-886-0064 – they did work like this on their course</p>	<p>At one point the streams may have been completely underground. Right now the stream flow is more of an erosion gully and less of a natural stream. It would be good to get an expert to take a look at these areas as they would be good candidates for stream restoration and floodplain reconnection. This would slow down the erosive force of water, provide a nicer aesthetic and provide beneficial habitat. This would be an expensive undertaking and should be done in consultation with a stream restoration expert. Grant funding could be used to supplement project costs.</p> <p>Potential funding partners include: DNREC, City of Newark, Veolia, White Clay Wild and Scenic, New Castle County, University of Delaware.</p> <p>Grant sources: ARPA, BIL, DNREC Source Water Grants, NFWF DRCF – more on this in attachments.</p>

1. These costs are approximate amounts designed to give you an idea of your potential costs should you do it yourself (DIY), professional design build costs would be considerably higher. Costs for depaving, permeable pavers and rain gardens are determined based on an estimate provided by the contractor and/or nursery used if DIY. All plants must be native to the continental US (see included list)
2. Please refer to “Order and Payment Information” sheet for more details and contact information.