
Horsepen Creek Project List

Watershed Management Area: Horsepen- Cedar

H-07 *Rank: 60*

H-07	HC-CR-0002	Currently designed Regional Pond
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H-13 *Rank: 14*

H-13	HC-CR-0004/05	Currently designed Regional Pond
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HC9007 *Rank: 46*

HC9007A	HC-CR-0002	clean debris out of stream
HC9007B	HC-CR-0002	At utility crossing - remove concrete trickle ditch & naturalize, add rocks to dissipate energy, repair erosion before stream
HC9007C	HC-CR-0002	New in-line constructed wetland or enhanced extended detention dry basin, provide energy dissipation at outfall & improve receiving stream, restore riparian buffer, educate public on yard waste
HC9007D	HC-CR-0002	Add rocks to outfall below Ladybank Lane for energy dissipation, remove nuisance species and allow to naturalize
HC9007E	HC-CR-0002	New constructed wetland or enhanced extended detention dry basin
HC9007F	HC-CR-0002	rain garden along edge of grass easement

Horsepen Creek Project List

HC9013

Rank: 45

HC9013A	HC-CR-0005	Install rain garden/bioretention with drain in low-lying area
HC9013B	HC-CR-0004	New constructed wetland/rain garden, extend riparian buffer
HC9013C	HC-CR-0004	New constructed wetlands, remove concrete channel
HC9013D	HC-CR-0005	Add rock to channels (central) for energy dissipation
HC9013E	HC-CR-0005	Remove concrete channels & naturalize, restore riparian buffer, create wetland between two channels N of Turberville Ln.
HC9013F	HC-CR-0004	SWM retrofit - retrofit existing dry pond 0116DP to enhanced extended detention dry basin including adding an outlet structure and possibly a berm above inlet
HC9013G	HC-CR-0005	SWM retrofit - retrofit existing non-stormwater pond to provide additional quantity and/or quality control, including outlet structure with low-flow outlet, aeration, plant emergent vegetation, possible draw-down
HC9013H	HC-CR-0005	Install constructed wetland in and upstream of confluence, restore riparian buffer throughout, add rocks to channel for energy dissipation
HC9013I	HC-CR-0005	New const wetland, remove invasives, intercept flow from pipe at edge of woodland
HC9013J	HC-CR-0005	Retrofit 0880DP for ED, naturalize
HC9013K	HC-CR-0005	SWM retrofit - retrofit existing non-stormwater pond to provide additional quantity and/or quality control, including outlet structure with low-flow outlet, aeration, plant emergent vegetation, possible draw-down
HC9013L	HC-CR-0005	New constructed wetland at pipe outfall, add rocks to channel and vegetation to banks
HC9013M	HC-CR-0005	Install/expand wetland, dredge sediment & add rock to channels, vegetate banks, investigate WQ issue at bridge & US
HC9013N	HC-CR-0005	New small constructed wetland within woodlands
HC9013O	HC-CR-0004	New constructed wetlands, may need to install shallow berm along walking path
HC9013P	HC-CR-0005	Add rock to channels (central) for energy dissipation
HC9013Q	HC-CR-0005	Remove concrete channels & naturalize, restore riparian buffer
HC9013R	HC-CR-0005	Install constructed wetland in and upstream of confluence, restore riparian buffer throughout

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HC9133

Rank: 33

HC9133A	HC-CR-0001	Retrofit to extended detention dry basin including removal of paved ditch; Disconnect US drainage and re-route through vegetated swale to new/expanded dry pond
HC9133B	HC-CR-0001	Improve drainage channel DS of pond to dissipate more energy with check dams & micropools
HC9133C	HC-CR-0001	Replace paved ditch with vegetated swale/bioretenion, include rocks to dissipate energy, may be able to incorporate additional area
HC9133D	HC-CR-0001	Replace paved ditch with vegetated swale/bioretenion, include rocks to dissipate energy, may be able to incorporate additional area

HC9135

Rank: 12

HC9135	HC-CR-0001	Enlarge existing dry pond 0443DP and retrofit to enhanced extended detention dry basin, remove concrete trickle ditches & clean sediment out of inlets. Improve outfall below dry pond 0443DP to dissipate more energy
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HC9138

Rank: 38

HC9138A	HC-CR-0001	New constructed wetland, potential re-route walking path and build walking bridge over wetland, restore channel below wetland outfall, add rocks for energy dissipation
HC9138B	HC-CR-0001	New constructed wetland just below existing walking trail, restore channel below wetland outfalls, add rocks for energy dissipation
HC9138C	HC-CR-0001	New constructed wetland just below existing walking trail, restore channel below wetland outfall, add rocks for energy dissipation

HC9143

Rank: 27

HC9143A	HC-CR-0003	Retrofit dry pond 1072DP to enhanced extended detention dry basin, including removal of trickle ditches
HC9143B	HC-CR-0003	Retrofit dry pond 1001DP to enhanced extended detention dry basin, including removal of trickle ditch & raising outlet structure
HC9143C	HC-CR-0003	Retrofit dry pond 1116DP to enhanced extended detention dry basin, including removal of trickle ditch and repairing outfall/adding rocks for energy dissipation

HC9146

Rank: 18

HC9146A	HC-CR-0003	Retrofit existing dry pond 1059DP to extended detention dry basin, including removing conc. trickle ditch and eliminating short circuit.
HC9146B	HC-CR-0003	Break up paved ditch & install veg. swale w energy dissipation
HC9146C	HC-CR-0003	Retrofit dry pond 0406DP for extended det.

HC9302

Rank: 30

HC9302	HC-CR-0001	Disconnect stormwater pipe and re-route to natural swale, add rock check dams to dissipate energy
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HC9901

Rank: N/A

HC9901A	HC-CR-0003	Restore and improve riparian buffer
HC9901B	HC-CR-0003	Restore buffer & educate homeowners about yard waste
HC9901C	HC-CR-0005	Non-Structural - Targeted rain barrel program for homes on Cross Creek Ln & Cross Creek Ct
HC9901D	HC-CR-0005	Remove invasives from pond and replant quality wetland and riparian vegetation

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Watershed Management Area: Horsepen- Frying Pan

HC9106

Rank: 16

HC9106	HC-FP-0001	Retrofit existing dry pond 1288DP to provide additional storage/water quality - current outlet structure is 5' culvert, not currently functioning dry pond
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HC9109

Rank: 44

HC9109	HC-FP-0002	Retrofit existing dry pond DP0406 to enhanced extended detention basin including removal of concrete trickle ditch
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HC9111

Rank: 14

HC9111A	HC-FP-0004	Retrofit dry pond 1485DP to enhanced extended detention dry basin including removal of concrete trickle ditch and repairing overland flow culverts under adjacent walking path
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HC9111B	HC-FP-0004	Retrofit dry pond 0933DP to enhanced extended detention dry basin, including removal of concrete trickle ditches within pond and below outfall, add energy dissipation below outfall
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HC9114

Rank: 31

HC9114	HC-FP-0004	Retrofit dry pond 1416DP to enhanced extended detention dry basin, including a constructed wetland/forebay north of walking path
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HC9116

Rank: 40

HC9116A	HC-FP-0003	Small constructed wetlands at outfall, improve quality of drainage/stream channels
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HC9116B	HC-FP-0003	Small constructed wetlands at outfall, improve quality of drainage/stream channels
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HC9117

Rank: 7

HC9117	HC-FP-0004	Retrofit dry pond 1224DP to enhanced extended detention dry basin including removal of concrete trickle ditch and raising outfall structure
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HC9119

Rank: 28

HC9119	HC-FP-0005	Retrofit dry pond 0610DP to enhanced extended detention dry basin including disconnecting 3 higher infalls and meandering toward center of pond. Opportunity to integrate a small park area along trail in upper portion
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HC9120

Rank: 54

HC9120	HC-FP-0003	Retrofit existing dry pond 0919DP into in-line enhanced extended detention dry basin including removal of concrete trickle ditches, naturalizing channel with meander, forebays/wetlands below infalls, etc.
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HC9124

Rank: 19

HC9124	HC-FP-0005	Retrofit existing dry pond 1222DP to enhanced extended detention dry basin including replacing concrete trickle ditches with meandering vegetated swales and repairing erosion problems just upstream of concrete trickle ditch
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HC9127

Rank: 41

HC9127A	HC-FP-0003	Retrofit existing dry pond 0563DP to in-line enhanced extended detention dry basin including naturalizing stream channels
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HC9127B	HC-FP-0003	Retrofit existing dry pond 0631DP to extended detention with bioretention/water quality control
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HC9503

Rank: 29

HC9503	HC-FP-0001	Vegetated swale to rain garden
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HC9902

Rank: N/A

HC9902	HC-FP-0001	Riparian buffer improvement
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Watershed Management Area: Horsepen- Lower Middle

HC9100			Rank: 8
HC9100	HC-HC-0018	Retrofit dry pond to enhanced, extended detention basin. Remove trickle ditch	
HC9101			Rank: 24
HC9101	HC-HC-0017	Retrofit dry pond to enhanced extended detention dry basin	
HC9200			Rank: 55
HC9200A	HC-HC-0020	Culvert retrofit above Parcher Ave	
HC9200B	HC-HC-0020	Repair eroding stream banks - lay back banks to create new floodplain (minor tree loss), integrate drainage improvement projects at incoming ditches, new SWM pond below athletic court	
HC9400			Rank: 11
HC9400	HC-HC-0019	Add structure above weir to reduce clogging of low flow orifice (micropool & trash rack?), constructed wetland/bioretention within weir, possibility to excavate floodplain upstream to provide additional storage	
HC9401			Rank: 1
HC9401	HC-HC-0018	Raise road and replace culvert at Rock Hill Rd crossing (Pro Rata Project No. OAK-1)	
HC9903			Rank: N/A
HC9903A	HC-HC-0018 & 20	Rain Barrel Program Reflection Lake HOA & Four Season HOA (Herndon)	
HC9903B	HC-HC-0020	Riparian buffer restoration	

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Watershed Management Area: Horsepen- Merrybrook

HC9104

Rank: 6

HC9104 HC-MR-0002 New SWM facility - pair of wetlands or larger enhanced extended detention basin to intercept drainage from commercial park before it enters the stream, add energy dissipation below outfalls

HC9105

Rank: 3

HC9105 HC-MR-0003 Convert leaky farm pond to constructed wetland and enlarge to provide quality and quantity treatment

HC9107

Rank: 49

HC9107 HC-MR-0004 New enhanced extended detention dry basin, must be deep enough to intercept piped storm sewer, outlet can be swaled to meet existing open channel downstream

HC9110

Rank: 20

HC9110 HC-MR-0004 New enhanced extended detention dry basin, must be deep enough to intercept piped storm sewer,

HC9907

Rank: N/A

HC9907 HC-MR-0003 Preserve and enhance buffer around series of wet ponds through conservation easement and buffer restoration projects

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Watershed Management Area: Horsepen- Middle

H-02

Rank: 62

H-02	HC-HC-0029	Currently designed Regional Pond
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HC9002

Rank: 53

HC9002A	HC-HC-0029	Break up concrete trickle ditch, add flow diversion to remove short circuit, retrofit existing outfall structure to extended detention, minimal disturbance to existing vegetation
HC9002B	HC-HC-0029	Potential Rain gardens/constructed wetland adjacent to Boeing facility entrance
HC9002C	HC-HC-0029	Potential Rain gardens/constructed wetland adjacent to Boeing facility entrance
HC9002D	HC-HC-0029	Improve water quality treatment of Boeing wet pond (improved vegetation, aeration)

HC9102

Rank: 57

HC9102	HC-HC-0026	Enhanced extended dry detention pond, will require berm along tennis courts
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HC9103

Rank: 10

HC9103	HC-HC-0025	Retrofit sediment basin into SWM facility and intercept drainage from ditch along Dulles Toll Road.
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HC9108

Rank: 37

HC9108	HC-HC-0028	Retrofit dry pond 0426DP to enhanced extended dry detention pond, improve inlet & channel downstream of outfall
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HC9113

Rank: 9

HC9113	HC-HC-0028	Enlarge and retrofit existing dry pond to extended detention dry basin, including removal of concrete trickle ditches, improve outfall to stream, intercept flow from adjacent drainage ditch, repair ditch & investigate source of suspicious discharge
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HC9115

Rank: 17

HC9115A	HC-HC-0028	Retrofit dry pond 0495DP to enhanced extended detention dry basin
HC9115B	HC-HC-0028	install sediment forebay upstream (across the road)

HC9500

Rank: 57

HC9500A	HC-HC-0026	rain garden adjacent to entrance
HC9500B	HC-HC-0026	Bioretention/detention, raised outflow level.

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HC9501

Rank: 2

HC9501	HC-HC-0028	BMP to intercept & retain overland flow/bio-retention/rain garden with possible vegetated swale
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HC9502

Rank: 5

HC9502	HC-HC-0028	Add vegetation to existing swale, direct swale and other overland flow to SE corner of fields to new infiltration basin, install berm to retain SW & outfall to existing SW system
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HC9904

Rank: N/A

HC9904A	HC-HC-0025	Riparian buffer restoration
HC9904B	HC-HC-0028	Re-vegetate/expand riparian zone
HC9904C	HC-HC-0028	Riparian buffer restoration
HC9904D	HC-HC-0029	Conservation easement to protect forested stream buffer (parcel slated for industrial use)

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Watershed Management Area: Horsepen- Upper

HC9118

Rank: 23

HC9118A	HC-HC-0030	Retrofit existing dry pond 0803DP to enhanced extended detention dry basins
HC9118B	HC-HC-0030	Retrofit existing dry pond (no StormNet ID) to enhanced extended detention dry basins

HC9121

Rank: 21

HC9121A	HC-HC-0030	Retrofit dry pond VDOT29068 to enhanced extended detention dry basin, potential to remove northern berm & increase pond size.
HC9121B	HC-HC-0030	Integrate bioretention into dry pond DP0015 & remove concrete trickle ditches
HC9121C	HC-HC-0030	Add vegetative swales to road dividers along Centreville Rd.
HC9121C	HC-HC-0030	Add vegetative swales to road dividers along Centreville Rd.
HC9121D	HC-HC-0030	Integrate bioretention into dry pond DP0493 & remove concrete trickle ditches
HC9121E	HC-HC-0030	Integrate bioretention into dry pond DP0382 & remove concrete trickle ditches

HC9122

Rank: 59

HC9122	HC-HC-0030	Retrofit nonSWM pond FM0014 to SWM wet pond, vegetate banks, repair erosion at overflow structure, draw down slightly to provide storage, repair seep in dam
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HC9123

Rank: 49

HC9123	HC-HC-0030	Retrofit dry pond 0196DP to enhanced extended detention dry basin, remove concrete trickle ditch, improve downstream channel, restore proper ROW
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HC9125

Rank: 25

HC9125	HC-HC-0031	New constructed wetland in small clearing below outfall, add energy dissipation, repair drainage channel downstream
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HC9126

Rank: 39

HC9126	HC-HC-0034	Enlarge & retrofit dry pond 0562DP to enhanced extended detention dry basin, including forebay to capture sediment
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HC9128

Rank: 26

HC9128	HC-HC-0031	Retrofit existing dry pond (not in StormNet) to enhanced extended detention dry basin
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HC9129

Rank: 61

HC9129A	HC-HC-0034	Retrofit dry pond 0568DP to enhanced extended detention naturalized basin
HC9129B	HC-HC-0034	Replace concrete swales along West Ox Rd with vegetated swales

HC9130

Rank: 31

HC9130	HC-HC-0031	Retrofit dry pond 1349DP to enhanced extended detention dry basin, remove concrete trickle ditch, raise outlet structure & emergency overflow, lower inlet on bank
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HC9131

Rank: 12

HC9131A	HC-HC-0035	Retrofit dry pond 1349DP to enhanced extended detention dry basin, add energy dissipation at infalls
HC9131B	HC-HC-0035	Improve channel, add energy dissipation, repair culvert under walking path, potential to create small constructed wetland below walking path

HC9132

Rank: 47

HC9132	HC-HC-0032	Retrofit dry pond 1055DP to enhanced extended detention dry basin
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HC9134

Rank: 51

HC9134A	HC-HC-0033	Retrofit regional dry pond H-19 (0747DP) - naturalize mowed portion, potential to reduce culvert opening to reduce flow through and hold back smaller storm events
HC9134B	HC-HC-0033	Bioretention/infiltration basin to receive flow from two drainage channels, naturalize inflowing swales
HC9134C	HC-HC-0033	Infiltration basin/bioretention to intercept flow before it reaches stream, possible swale to basin in open area, restore riparian buffer

HC9136

Rank: 34

HC9136	HC-HC-0037	Retrofit existing dry pond to constructed wetland, expand pond area and re-grade banks in upstream drainage ditch to extend wetland upstream
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HC9137

Rank: 42

HC9137A	HC-HC-0039	Redirect tributary to enter stream farther downstream, create new constructed wetland en-route, vegetate riparian zone; New wetland on north bank just upstream of trib confluence
HC9137B	HC-HC-0039	New wetland to intercept piped drainage below culvert, meander new channel around trees
HC9137C	HC-HC-0039	soften meander downstream

HC9139

Rank: 35

HC9139A	HC-HC-0039	New construction wetland, at pipe outfalls
HC9139B	HC-HC-0039	New construction wetland, at pipe outfalls

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HC9140

Rank: 43

HC9140	HC-HC-0037	Retrofit existing dry pond 0243DP to enhanced extended detention dry basin, raise level of emergency overflow, continue to let basin naturalize
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HC9142

Rank: 56

HC9142A	HC-HC-0040	New constructed wetland, improve channel/add energy dissipation
HC9142B	HC-HC-0040	New wetland/forebay in N incoming trib (will require extensive re-grading, re-grade edge of field to reduce further erosion, investigate ability to reduce orifice to hold back smaller storm events
HC9142B	HC-HC-0040	New wetland/forebay in N incoming trib (will require extensive re-grading, re-grade edge of field to reduce further erosion, investigate ability to reduce orifice to hold back smaller storm events

HC9148

Rank: 21

HC9148A	HC-HC-0039	Regrade gas ROW for new constructed wetland/expansion of existing wetland;improve inflowing swale with rock and riparian plantings
HC9148B	HC-HC-0039	Retrofit existing pond wetland/wet pond, reduce orifice size to reduce flow through, add energy dissipation to outfall

HC9149

Rank: 52

HC9149	HC-HC-0040	Replace upper portion paved ditch with naturalized channel, install checks to control energy; new constructed wetland at the lower portion of the ditch between the existing concrete channel and gas easement.
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HC9201

Rank: 48

HC9201	HC-HC-0037	Repair streambank erosion, incorporate several rock vanes & plant additional buffer along steep back yards
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HC9202

Rank: 36

HC9202	HC-HC-0039	Repair erosion impacts on SPA reach 10-5, may be as many as 7 moderate to severe erosion areas, good candidate for extensive stream restoration, including re-connecting channel with floodplain and adding checks to dissipate energy
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HC9505

Rank: 4

HC9505	HC-HC-0035	Retrofit dry pond 0440DP with BMPs, replace trickle ditches with vegetated swales/bioretenion, raise outlet structure and control erosion around it, maintain field for community support
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HC9905

Rank: N/A

HC9905A	HC-HC-0030	Conservation easement to preserve riparian buffer and SWM facility
HC9905B	HC-HC-0031	Clear invasives, replant and restore buffer with quality vegetation, Investigate and remove obstructions at SPA reach 9-1 (may be up to 5 moderate-severe obstructions)
HC9905C	HC-HC-0032	Restore riparian buffer to property lines with vegetation that can support steep slopes, add rocks for energy dissipation below outfall
HC9905D	HC-HC-0033	Riparian buffer restoration (deficient buffer approx 2,500 ft in length)
HC9905G	HC-HC-0036	Allow existing dry pond (no StormNet ID) to naturalize, stop mowing, vegetate with quality vegetation
HC9905H	HC-HC-0036	Vegetate existing dry pond 0440DP with high quality riparian/floodplain vegetation and break up concrete trickle ditch, Leave concrete pieces in place for energy dissipation

HC9906

Rank: N/A

HC9906E	HC-HC-0033	Targeted rain barrel program for portion of Chantilly Highlands
HC9906F	HC-HC-0033	Targeted rain barrel program for portion of Chantilly Highlands