

Caroline County 2016 - 2017 Two-Year Milestones

| Target Date | Milestone | Deliverable | Lead Agency | Comments/Status Updates |
|-------------------------|---|---|--|---|
| Urban Stormwater | | | | |
| 2016-2017 | Plan, design and implement BMPs on unpaved County roads. | Installation of surface and/or drainage BMPs on 1-3 unpaved road segments. | County Departments of Planning & Codes (P&C) and Public Works (DPW) | 2016: Effort to obtain funding for final design and construction of 1-3 unpaved road BMP implementation projects was deferred due to lack of sufficient DPW staff to assist with project. P&C working with NFWF technical support provider to draft NFWF grant proposal to hire consultant for Phase 1 (design concepts) of implementation project in 2016/2017 grant round. Phase 2 will follow completion of Phase 1, with funding from TIGER grant program. |
| 2016-2017 | Plan, design and implement new and retrofit stormwater BMPs on public properties. | Assessments, design concepts, cost/load reduction estimates, final designs and construction of urban SWM new and retrofit BMPs around the County. | County Planning/Codes and Rec/Parks departments, Board of Education; UMD Sea Grant | 2016: Partner with Bd of Ed on assessment of potential SWM bmp retrofit projects on Caroline County public school campuses, including 10 buildings on 9 campuses, total 100+ acres. Assessment report to be completed in 2016 (funder: NFWF) 2016: County partner in A&CB Trust Fund project for multiple urban SWM retrofit projects at large municipal park adjacent to Choptank River in Greensboro. 1-year project to begin in 2016. (Funder: A&CB Trust Fund) |
| 2016-2017 | Plan, design and implement new and retrofit stormwater BMS on non-public properties and in neighborhoods. | Garner public support of and participation in Bay TMDL; implementation of BMPs in developed areas. | County Planning/Codes dept, UMD Sea Grant | 2016: Stormwater bmp installations project at Greensboro Volunteer Fire Company (VFC) community hall include rooftop disconnect to rain garden, conservation plantings and porous paver patio. Project to be complete by 6/30/16 |

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| | | | | <p>(Funder: MDE 319 grant).</p> <p>2016: Completed concept design and Phase 1 of public outreach for 7-acre wetlands restoration and enhancement project in low-income neighborhood outside of Ridgely (Funder: Chesapeake Bay Trust Mini Grant). Obtained 100% support of property owners (including pledges of easements) for the project. Final design, engineering and construction to begin in late 2016 pending funding (Potential funders: CBT, MDE 319, NFWF)</p> |
| | Assess feasibility of initiating a bi-monthly street sweeping/storm drain vacuuming program in two or more municipalities utilizing a shared street sweeper and implemented in conjunction with storm drain cleanout and maintenance program. | Purchase of vacuum-sweeper (\$100,000-200,000). | County Planning | USDA grant/load financing program for street sweepers no longer available. County pursuing other funding sources for sweeper/vacuum for use in street-stormdrain cleaning and for maintenance of permeable pavement sites. |
| 2016-2017 | Plan and implement partner SWM BMP projects with educational component to engage County students in implementation and maintenance of urban BMPs. | Regular, hands-on environmental education projects for Caroline County students | County Planning and Rec & Parks departments, UMD Sea Grant | <p>2016-2017 Engage students in comprehensive retrofit BMP assessment of County public school properties, including on-site assessments, recommendations and cost-analyses of potential BMPs, and eventual construction/installation of BMPs (funder.</p> <p>2016-2017 Partner with Caroline Career and Technology Center students and Chesapeake College to design and construct composting toilet facilities at County high school football stadiums.</p> |
| Wastewater | | | | |

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| 2016-2017 | Upgrade or replace Greensboro's aging secondary treatment plant (c. 1964) with ENR treatment technology. | Construction of new ENR wastewater treatment plant in town of Greensboro. Reduction of approx. 5,000 lbs TN annually to Choptank River. | Greensboro and County | 2016: Construction of ENR WWTP and conveyance systems underway, construction of collection system to start summer 2016, individual property connections in 2017. (funded) |
| 2016-2017 | Construct treatment plant to serve north County towns with failing septic systems. | Construction of new ENR wastewater treatment plant(s) in north County town(s) or connection of town(s) to Greensboro ENR wwtp. | Towns and County | 2016: County is providing assistance in development of updated PER for cost analysis of connecting remaining 3 north County towns to new Greensboro ENR WWTP. |
| 2016-2017 | Upgrade or replace Preston's aging lagoon wastewater treatment system with nutrient removal treatment technology. | Design & engineering of upgraded wastewater treatment plant in the town of Preston. Nutrient reductions to be determined upon completion of design. | Preston and County | 2016: County has provided assistance to the Town including coordinating meetings with MDE and technical resource support. Based on recommendation from PER, Town has selected ENR treatment upgrade and is pursuing funding for final design and engineering. |
| Septics | | | | |
| 2015-2016 | Develop methods for testing alternative methods of reducing nitrogen load from septic systems. | Field tests of alternative and innovative septic BMPs and development of permanent septic BMP test center. Potential 50%+ reduction in TN loads from septic systems and significant cost savings (compared to BAT systems). | County Planning, UMD Ag Extension, MDE | 2016: County developed work program and is seeking funding for construction of permanent septic BMP test center at new Greensboro ENR WWTP. Planned BMP tests include wood chip barriers, alternative filter media, and continued switchgrass monitoring. 2016: 2-year project to test nutrient uptake in switchgrass planted on test septic drainfields complete, review of results underway (funder: NFWF). Next phase will include testing on residential septic systems. 2016 Partner with Caroline Career and |

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| | | | | Technology Center students and Chesapeake College to design and construct composting toilet facilities at County high school football stadiums. |
| 2016-2017 | Decommission septic systems in and around the town of Goldsboro and connect properties to new Greensboro ENR WWTP. | Decommissioning of 135 septic systems and connection of properties to new Greensboro ENR WWTP. | County Dept Environmental Health, Greensboro, Goldsboro and County Planning | 2016: Property owners completing easements and applications for BRF funding to cover costs of decommissioning septics and connecting to new plant, construction of Goldsboro collection & conveyance system slated to begin in 2016. |
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