

## Phase II WIP Two-Year Milestones 2012-2013 (Progress to date 5/2012)

### Septic Systems

- The Department of Environmental Health will continue to upgrade septic systems within the County. An increase in funding from the Bay Restoration Fund would allow for an increase in the number of septic system upgrades each year.
  - *On-going.*
- All new, replacement or upgrades of existing septic tanks in the Critical Area are required to be nitrogen removing systems.
  - *On-going. QAC MWSP Section 5.2.4 requires BNR for all new septic systems in the Critical Area or within 100' of stream buffer.*
- Twenty percent (20%) of the septic systems in Queen Anne's County will be pumped out in each of the two years, for a total of forty percent (40%) over this milestone period. The County has an established and on-going program that requires all septic systems to be pumped out over a five (5) year period.
  - *On-going. County Code: Article XXVII Private Wastewater Systems, Section 24-166 Mandatory Septic Pump-outs.*
- Evaluate the impacts of providing community sewer and water service to areas of the county that have been identified by the Department of Environmental Health to have failing septic systems.
  - *Southern Kent Island Sanitary Project.*
- Number of systems hooked up to an advanced WWTP.
  - 2009 – 1 dwelling & 1 institutional (airport)
  - 2010 – 2 dwellings & 3 institutional (DNR at Matapeake)
  - 2011 – 2 dwellings
  - There are 4 more that are expected to be connected in the near future.

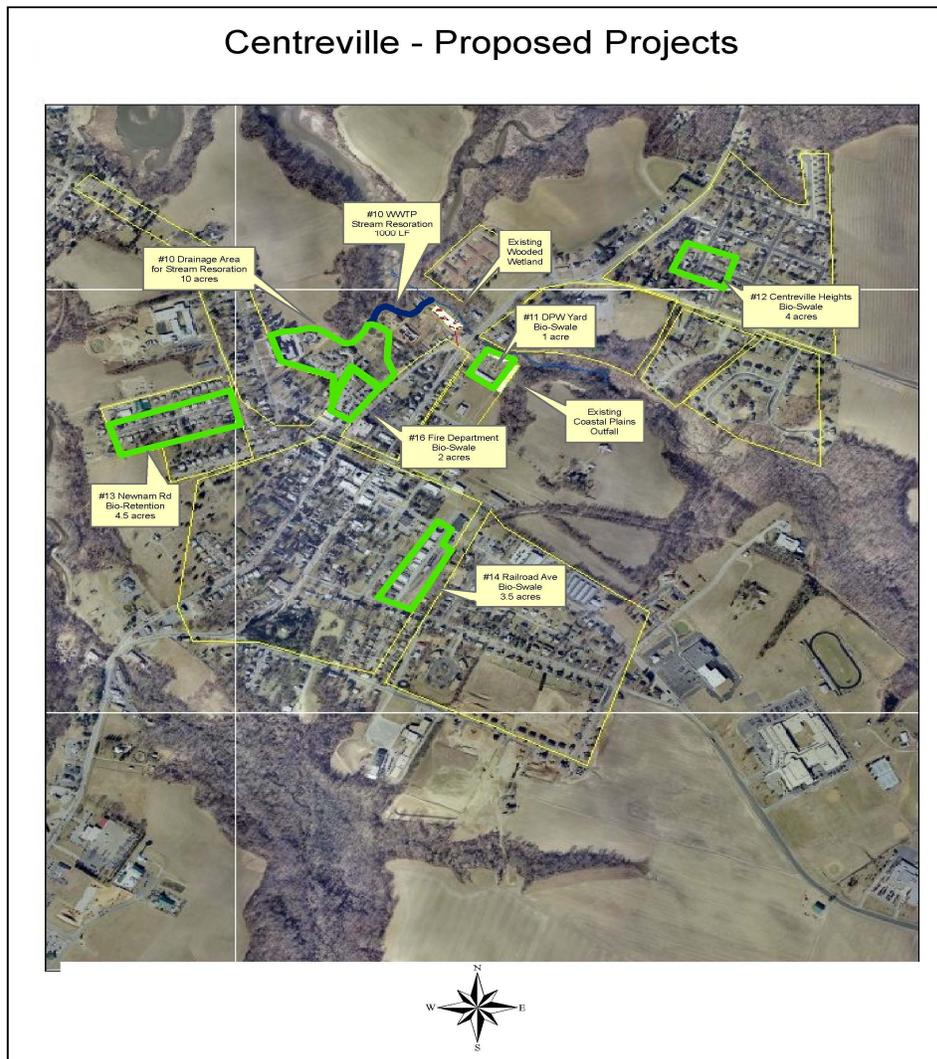
### Stormwater Management

- Review the County's Stormwater Management Ordinance to find areas that have the possibility for amendment to assist in the facilitation of stormwater retrofits.
- Review the County's Sediment and Erosion Control Ordinance to find areas that have the possibility for amendment to assist in the facilitation of the WIP.
- Complete approximately 1 to 3 projects per year that will provide stormwater quality management for approximately 5 to 20 acres of land. Retrofit projects typically include but are not limited to the designing and construction of rain gardens, bio-retention swales, installation of permeable pavement, wetland enhancements, living shorelines and/or stream restoration projects.

- *Ferry Point (\$800k) – Chesapeake Bay Trust & DNR - June 20, 2012 to Board of Public Works. Dredge work to begin in September 2012. Dredge material from the Narrows will be used as back fill for the living shoreline.*
  - *Stabilization*
  - *Erosion control*
  - *Living shoreline creation*
- *Corsica Landing Estates - Bio-retention facility - MDE/EPA 319(h) (\$83,333) - 2011.*
- *Wells Cove –*
  - *Bio-retention area with native plantings*
  - *Impervious surface reduction (pavement removed)*
- *QAC County Office Building –SWM Retrofit (\$200k) - rebuild parking lot with new SWM 2012*
- *Kirwan Creek-*
  - *Stream Restoration (coastal plain outfall) - NFWF (\$100k) - 2011.*
  - *Headwaters Wetland Enhancement (coir log impoundment filters) - NFWF (\$30k) - 2011*
  - *Living Shoreline (3 sites) - NFWF (\$30k) - 2011*
- *Bloomfield (\$50k) - Permeable Pavement - Phase V Lots 1 & 2 south- 2012.*
- *Centreville Middle School*
  - *Meadow creation – 2012*
  - *Rain garden – 2012*
- *Centreville Elementary School - Meadow creation (used for buffer/water quality control around SWM pond) – 2012*
- *Grasonville Elem., Matapeake Middle & Sudlersville Middle Schools - 2012/2013*
  - *Wetland restoration/creation*
  - *Meadow restoration/creation*
  - *Tree planting*
- *Conquest - Meadow Creation (8 acres) – 2012*
- *Davidson Farm*
  - *New Delmarva Bay - 2011*
  - *Series of 4 wetland ponds - 2011*
  - *Ditch retrofit (graded, seeded and stones placed in them to slow flow of water) – 2011*
  - *Removal of impervious surfaces (house and trailer) - 2011*

- *Tree planting – large number of trees planted (Natural filters grant, MD Broadband mitigation etc) - 2011*
  - *Airport –SWM for extension of the runway - FAA – 2011*
  - *Matapeake Business Park road construction – SWM designed into the new roadway (none existed before) – 2012*
  - *Kent Island South Trail – Large tree planting by Delmarva Power – 2012*
  - *Millstream Park, Centreville Elementary School, & Chesterfield Cemetery – large tree buffer planting in the Critical Area – DNR Veg. Filters Grant 2011*
  - *Kudner Farm*
    - *Wetland creation – Eco-Restoration Grant 2011*
    - *New waterway installation (ditch retrofit/erosion control) – Eco-Restoration Grant 2011*
- *Seek collaboration between the county and towns to create a program to plan and implement WIP strategies.*
  - *COG Meeting – Fall 2011*
  - *Maryland Department of Natural Resources –Watershed Service Unit Watershed Assistance Grant: Natural Vegetated Filters Grant – 2011: Queen Anne’s County partnered with the Town of Centreville and the State of Maryland to construct three Natural Filters projects on local county/municipal lands.*
- *The Town of Centreville plans to do several projects within this milestone period. Projects may include, but are not limited to, Storm Drain Outfall Improvements, Stream Restoration Projects, Dam removal and Bio-swale creation.*
  - *Warf Area - 275 LF of living shoreline construction, 2011 (CBT/NOAA).*
  - *Stormwater Utility Recommendations- 2011.*
  - *Natural Filters Tree planting – 2011 (see above - MD DNR Natural Filters program).*
  - *Rain Barrel Program – In 2011 the Town of Centreville sold approximately 160 rain barrels were sold to residents in the Corsica River watershed (Chesapeake and Atlantic Coastal Bays 2010 Trust Fund. Project Management and Outreach from 319 Grant).*
  - *Town of Centreville continues a comprehensive outreach, education, and social marketing campaign to raise awareness about the Corsica River Watershed, focusing on the goals in the Corsica River Watershed Restoration Action Strategy (WRAS).*
  - *Goals for Urban Stormwater Management*
    - *Current year 2011, shovel ready projects for Fall 2011*
      - *DPW yard*
      - *Storm Drain Outfall Improvements @ WWTP (Phase 1)*
    - *Future year 2012*
      - *Newnam Road*

- *Centreville Heights*
- *Stream Restoration below Storm Drain Outfall Improvements @ WWTP (Phase 2) No progress has been made on the original WRAS goal of 2 miles of stream restoration.*
- *Future Year 2013 Fire Dept parking lot*
  - *Pennsylvania Ave*
  - *Dam removal/stream restoration*
- *Future Year 2014*
  - *South side of town*



- Queen Anne's County is willing to work with the State, as needed, to refine the cost estimates and identifying potential funding options. The County expects that the combination of federal and State revenue sources as well as local "in-house" services will be needed.

- The County will actively pursue grants and additional revenue sources and the assistance of all interested in helping bring down the anticipated high costs of WIP related projects.
  - *Grant group – representatives from DPW, P&Z and P&R meet on a monthly basis to discuss on-going grants, upcoming grants and grants that are on the horizon that may be applicable to the county's needs.*

### **Waste Water Treatment Plants**

- The County will continue to work with the municipalities within the County that seek to upgrade current WWTP or expand the current service area.
- *Queenstown – Funding has been secured from USDA for a capacity increase from a flow of 85,000gpd to 200,000gpd.*

### **Other**

- The County will continue to pursue funding to support its preservation programs.
  - *Update of the QAC Ag certification is in process.*
  - *Applications are continuing to be accepted. Only 8 are allowed to be accepted at a time. Currently the Ag Specialist has a waiting list of 115 farms interested in preservation (totaling 17,000+ acres).*
  - *FY 10-11 – 8 easements totaling 1,546 acre.*
  - *New CREP Easements- 532 acres (These are permanent buffer strips.)*
  - *As of February 2012, 72,622 permanently preserved. That is 73% of the county goal.*
  - *Established a PPA encompassing 119,000 acres in 2010.*
- Evaluate the merits of creating a County program to purchase easements on farms with the intention of creating buffers strips along waterways and/or road front ditches that will absorb nitrogen and stabilize soils.
- Continue to work cooperatively with such agencies as Soil Conservation, Natural Resource Conservation Service and University of Maryland Extension.
  - *On-going.*
- The County will seek to establish a systematic structure for tracking projects within the county that assist in reducing the nutrients that flow into the Chesapeake Bay.
  - *Discussed "in-house" and with Town of Centreville.*
  - *Discussed with MDE about the possibility of the state creating a universal tracking mechanism.*
  - *Collected sample forms that may possibly be used to assist in creating a reporting structure.*
- Inventory will be taken of what, if any, projects in the county or towns have been recently completed and mistakenly overlooked and not accounted for in the MAST tool.

- *At the end of this milestone period this inventory will be taken. This will cut down the repetitive effort for those who are researching/reporting the data. Also, a reporting structure should be finalized by then ensuring that all of the pertinent data is collected.*
- Work and partner with citizen and environmental groups to identify concerns and problems. Partnerships formed between the County, municipalities and citizens groups may improve the chances of winning grants.
- Continue to support the work done by the citizen and environmental groups, whose projects include wetland restoration, rain garden construction, storm water retrofits, water quality monitoring, education & outreach and more.
  - *Corsica River Implementers - Due to a reduction in workforce in 2011, there was no planning staff representative. Recently a staff member has started attending meetings again. This affords the county knowledge of what the group is accomplishing as well as providing potential ideas regarding the WIP.*
  - *When a reporting structure is finalized an attempt will be made to gather data from the Corsica group as to what projects they have completed within their targeted watershed.*
- Queen Anne's County will seek grant funding for various projects and programmatic changes that will assist the County with implementation of WIP strategies.
  - *Maryland Department of Natural Resources – Chesapeake & Coastal Program-Coastal Communities Initiative 2011 Grant (\$75K):*  
  
*Queen Anne's County applied for/was awarded the CoastSmart Communities Initiative Grant in October 2011. This competitive grant program provides financial and technical assistance to local coastal governments to promote and incorporate natural resource and/or coastal management issues into local planning and permitting activities.*  
  
*The grant objective as identified by Planning staff in the application was that of incorporating innovative measures to offset impacts to Critical Areas, while incorporating also the goals of the WIP, Stormwater Management, Environmental Site Design and Floodplain issues. The goal would be achieved specifically by completing a major overhaul of Chapter 14, QAC's Critical Area ordinance.*  
  
*Queen Anne's County Chapter 14, Chesapeake Bay Critical Area Regulations is currently undergoing a major update. Pursuant to State regulations the program is overdue for an update. This fact, coupled with recent major additions and revisions to Critical Area regulations per the 2008 legislation has led to a complete overhaul of Chapter 14.*  
  
*The award of this grant has allowed Queen Anne's County funding to otherwise offset budget funding and allow for a fulltime staff person to complete the update of Chapter 14. In addition to providing much needed funding to perform this task, the CCI grant allows for a team consisting of Critical Area staff and DNR Coastal Communities staff to meet regularly with QAC planning staff in order to complete this objective.*
  - *Phase II CoastSmart Community Initiative Grant 2012 (\$55K) – Floodplain Ordinance update*
  - *Maryland Department of Natural Resources –Watershed Service Unit Watershed Assistance Grant: Natural Vegetated Filters Grant (\$100k) – 2011:*

*Queen Anne's County partnered with the Town of Centreville and the State of Maryland to construct three Natural Filters projects on local county/municipal lands. Each project involved the construction of riparian buffers on the Queen Anne's county park property of Davidson Farm Park and the Town of Centreville's Chesterfield Cemetery / Millstream Park Properties as well as a naturalized area on the Centreville Elementary School property. The subject properties are within the Chesapeake Bay Critical Area and establish natural vegetative buffers as a means to reduce nutrient loadings entering the Chesapeake Bay and its tributaries.*

- Maryland Department of Natural Resources– Watershed Service Unit Watershed Assistance (Eco-Restoration) Grant: Wetland Creation & Restoration (\$35k) – 2011: Wetland creation at the Davidson Farm Park and on the Kudner property.*
  - 319 Grant 2012 (\$120k) – Rain garden creation at the Board of Education building.*
  - 319 Grant 2013 – Creek/ditch side stabilization and erosion control behind QACHS.*
  - Eco-Restoration Grant (\$35k) – Wetland creation and new waterway installation (ditch retrofit/erosion control) at Kudner Farm.*
  - NFWF Grants (\$160k total) - Headwaters Wetland Enhancement, stream restoration and living shoreline at Kirwins Creek.*
  - Chesapeake Bay Trust & DNR (\$800k) – Living shoreline, erosion control and stabilization at Ferry Point.*
  - There may be more, as the reporting occurs the funding sources for any projects that have been undertaken will be accounted for.*
- The County will establish a list of possible funding sources for those who may be interested in obtaining funding for restoration projects.
  - Completed.*
  - Once the Planning and Zoning website is updated this information will be uploaded to that site so that interested parties will have access to the list.*
- Queen Anne's County aims to provide enhanced protection measures and management of the Chesapeake Bay Critical Areas by updating the Queen Anne's County Environmental Protection Code; Chesapeake Bay Critical Area Program.
  - Queen Anne's County Chapter 14, Chesapeake Bay Critical Area Regulations is currently undergoing a major update.*
  - Critical Area Mapping Update: Queen Anne's County received state mapping data in late January and review of this information followed. For this mapping project, a team of professionals from the Critical Area Commission, the DNR, Salisbury University, the Eastern Shore Regional GIS Cooperative, and Queen Anne's County Planning & GIS Staff are working together to complete this endeavor.*
- Queen Anne's County wishes to work closely with Critical Area Commission staff in developing innovative language and floodplain information, nutrient reduction, wetland and habitat protection and restoration, as well as an outreach and assessment program to educate the public about protection and management programs.

- *In 2012 Queen Anne's County Planning & Zoning hosted a joint meeting with Kent County Planning & Zoning to educate local realtors about the basics of Critical Area and upcoming changes in the regulations.*
- *In 2012 Queen Anne's County Planning & Zoning is attending the Bay Area Association of Realtors Expo to provide zoning & Critical Area training.*
- *As a Critical Area Project Partner we review draft Critical Area regulations and provide input & alternative language to Critical Area resulting in revised draft regulations.*
- *Planning & Zoning staff attend Critical Area quarterly meetings.*
- *Planning & Zoning hosts meetings with Critical Area staff on project specific items.*
- The County seeks subject properties that are within the Chesapeake Bay Critical Area and establish natural vegetative buffers and create/restore wetlands as a means to reduce nutrient loadings entering the Chesapeake Bay and its tributaries.
  - *DNR Natural Filter Tree Planting: Maryland Urban & Community Forest Committee of the Maryland Association of Forest Conservancy District Boards & Maryland DNR Forest Service awarded Queen Anne's County with a Community PLANT Award for the year 2011.*
  - *Maryland Department of Natural Resources –Watershed Service Unit Watershed Assistance Grant: Natural Vegetated Filters Grant – 2011:*  
  
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  - *Maryland Department of Natural Resources– Watershed Service Unit Watershed Assistance (Eco-Restoration) Grant: Wetland Creation & Restoration – 2011: Wetland creation at the Davidson Farm Park and on the Kudner property.*
- Through the use of the Council of Governments, Queen Anne's County will communicate with the towns to inform them about what the County is coordinating with respect to WIP implementation.
- Queen Anne's County will investigate alternative ways to manage and fund implementation of the WIP going into the future.