

Stormwater Task Group

Board of Supervisors Work Session

November 23, 2004

Brief Background & History

- October 1998: James City County Stormwater Policy Framework, Final Report of the James City County BMP Policy Project.
- Develop a subwatershed map for County.
- Develop a priority list for future in-depth stormwater master plans.
- Recommend conducting stormwater master plans for priority watersheds, beginning with Powhatan Creek as a pilot.

Brief Background & History

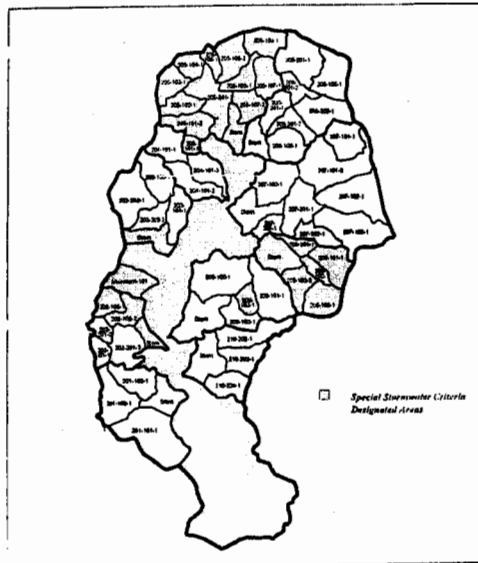
- June 2000: Award of Contract – Watershed Management Planning for Powhatan and Yarmouth Creeks.
- February 26, 2002: BOS adopts 8 goals and 21 of 24 priorities associated with the Powhatan Creek Watershed Management Plan.

Brief Background & History

- October 14, 2003: BOS adopts the Yarmouth Creek Watershed Management Plan (6 goals and 14 priorities), with the exception of Priority No. 3, Special Stormwater Criteria.

Brief Background & History

- Powhatan Creek: Priority # 7; "Special Stormwater Criteria in sensitive stream areas & conservation areas." Applies to select catchments in Powhatan Creek.
- Yarmouth Creek: Priority # 3; "Adopt Special Stormwater Criteria (SSC) in the watershed to increase groundwater recharge in the development process." Applies to subwatersheds in PSA and rezonings watershed-wide in Yarmouth Creek.



Identified Special Stormwater Criteria Areas in the Powhatan Creek Watershed (CWP, 2001)

Figure 1. Powhatan Creek Watershed Catchment Delineation

Brief Background & History

- February 25, 2003: Format of the Stormwater Task Group was recommended to the Board of Supervisors in a reading file memorandum. Outlined proposed purpose, objective, agenda, team members and process. Subsequent work session held on March 25, 2003.

Stormwater Task Group Meetings

- Following the February 25, 2003 Board Work Session, the SSC Task Group was quickly assembled. A very aggressive and technically-oriented schedule followed.
- Meetings were held consistently on the third Friday of each month.

Stormwater Task Group Meetings

- A series of 14 meetings were held beginning in June 2003 and ending in October 2004.
- Task group consisted of 10 members, one guest and County advisory staff.

SSC Task Group

<u>Members</u>		
1	Local Consulting Firm (AES)	Mr. Marc Bennett
2	Local Consulting Firm (LandMark)	Mr. Stephen Romeo
3	Local Consulting Firm (WEG)	Mr. Doug Beisch
4	Landscape Architect (Carlton Abbott)	Mr. Doug Mettler
5	Large Private Developer (New Town / WindsorMeade)	Mr. Jim Franklin
6	Large HOA (Realtech)	Mr. Drew Mulhare
7	Small HOA (Longhill Gate)	Mr. Frank Carpenter
8	Friends of Powhatan Creek Watershed	Mr. John Schmerfeld
9	Regulatory Sector (VADCR)	Mr. Jeff Hancock
10	Large Tract - Landowner	Mr. Tom Hitchens
<u>Guest</u>		
1	College of William & Mary	Mr. Greg Hancock
<u>Advisory</u>		
1	County Staff	Darryl Cook
		Scott Thomas
		Mike Woolson
		Bill Cain

SSC Task Group Schedule

Meeting	Date	Topic
1	June 20, 2003	Introductions & Powhatan Creek WMP overview
2	July 18, 2003	Review of Draft CWP SSC Guidelines
3	August 15, 2003	County BMP Manual (Part I)
4	October 17, 2003	County BMP Manual (Part II)
5	November 21, 2003	Better Site Design/Low Impact Development (Part I)
6	January 16, 2004	Better Site Design/Low Impact Development (Part I)
7	February 20, 2004	Offsite Open Space (Part I)
8	March 19, 2004	Offsite Open Space (Part II)
9	April 22, 2004	SSC - Brainstorming Session
10	May 21, 2004	SSC - Preparatory Session
11	July 16, 2004	SSC - Draft Paper
12	August 20, 2004	SSC - Pre-Final Paper
13	September 17, 2004	SSC - Final Paper
14	October 15, 2004	Ending Session

Stormwater Task Group Meetings

- Main purpose of the task group:
 - Develop Special Stormwater Criteria
 - Develop an Offsite Open Space Program (for stormwater compliance/credit purposes)
 - General revisions to the County BMP manual (overhaul)

Task Group Meeting (Highlights)

- Full overview of Powhatan Creek Watershed Management plan
- Center for Watershed Protection draft SSC Guidelines were determined to be too complex and burdensome for implementation. Task group decided to create and develop their own criteria
- Reviewed principles and practices of Better Site Design and Low Impact

Task Group Meeting (Highlights)

- Formed Offsite Open Space subcommittee
- Complete review and overhaul of design/construction specifications in County BMP manual
- Ideas for SSC were developed using a "call-for-paper" format

Task Group Meeting (Highlights)

- Final SSC Paper selected based on vote
- Final SSC Paper went through several revisions/corrections
- Two sample case studies reviewed using SSC procedure

Task Group Meeting (Highlights)

- Active open discussions were conducted at each meeting on very technical and complex stormwater management issues.
- Consensus reached on many issues and reflected in final draft SSC paper.

Special Stormwater Criteria (SSC)

- Introduction – Outlines purpose and objective
- **When Is It Applied?**
 - Type 1: Site situated in an SSC area as designated on a Board approved watershed management plan
 - Type 2: As part of an ordinance waiver, exception or variance request.
(Note: Therefore, may be applied outside Powhatan/Yarmouth Creek areas.)

Special Stormwater Criteria (SSC)

- Applied at the site (plan of development) stage. For rezonings, SUP's, etc. only need to identify if SSC will apply to the site.
- **How Is It Applied?**
 - Simple step-by-step process
 - Using information already developed such as the Environmental Inventory, soils map, site mapping, limits of work, etc.

Special Stormwater Criteria (SSC)

■ How Is It Applied?

- Applied after site is fully designed and engineered (ie. site design does not have to go back to the drawing board)
- Very simple concept for applicants, developer, plan preparers and plan review staff to apply and use
- Uses many concepts derived from principles of Better Site Design and Low Impact Development

Special Stormwater Criteria (SSC)

■ How Is It Applied?

- If all Hydrologic Soil Group A&B soils are saved on a site then SSC is achieved. If this is not possible or practical, then flexibility exists to use tables to determine number and type of measures to apply
- Number of Special Stormwater Criteria Practices (SSCP's) applied to a site increases in relation to the size of the site or section of development

Special Stormwater Criteria (SSC)

■ How Is It Applied?

- Large master-planned tracts would only need to indicate if and where SSC applies
- Currently 39 onsite or offsite SSCP choices available
- SSCP's grouped into common categories
- Flexibility to expand or amend list of SSCP's

Special Stormwater Criteria (SSC)

■ How Is It Applied?

- No more than 2 of the same SSCP measures can be used to meet SSC criteria
- SSC credit cannot be taken for measures being used to meet traditional stormwater management requirements (ie. 10-point system)

Special Stormwater Criteria

- Specific Task Group Recommendations
 - Special Stormwater Criteria (SSC) should be incorporated into the revised County BMP manual
 - Special Stormwater Criteria (SSC) should be incorporated into an appropriate section of the County's Chesapeake Bay Preservation ordinance at a later (to-be-determined) point in time.
 - After-care meetings should be held

Offsite Open Space Program

- Used for stormwater compliance purposes
- Completes a County BMP manual type "G4" open space option which was not originally incorporated into the County BMP in 1999/2000
- Gives greater flexibility to the County's 10-point BMP system

Offsite Open Space Program

- Limited to one (1) BMP point or ten (10) percent of total BMP points.

- Provides higher credit for conserving “priority” conservation areas.

Proposed Implementation Schedule

- Request Board Action on:
 - Adoption, by resolution, of *Special Stormwater Criteria (SSC)*, the *Offsite Open Space Program* and revisions to the County BMP manual based on the results of the Stormwater Task Group

Proposed Implementation Schedule

■ Request Board Action on:

- Authorize staff to incorporate *Special Stormwater Criteria (SSC)* and the *Offsite Open Space Program* into the revised County BMP manual. The manual is linked to both the Chesapeake Bay Preservation and Erosion and Sediment Control ordinances of the County.

Proposed Implementation Schedule

■ Request Board Action on:

- Authorize staff to submit the revised County BMP manual to appropriate state regulatory agencies for review and comment (CBLAD, VADCR, etc.)
- Authorize staff to begin use of the revised County BMP manual effective January 1st 2005 or later, pending review by state regulatory agencies and following appropriate notification to all know manual users.

Proposed Implementation Schedule

■ Request Board Action on:

- Based on recommendations of the task group, authorize staff to incorporate language for use of *Special Stormwater Criteria (SSC)* into an appropriate section of the County's Chesapeake Bay Preservation ordinance at an appropriate future time.
- Authorize the Stormwater Task Group to perform "after-care" meetings as proposed.