



Wake County Sediment and Erosion Control Section, Water Quality Division
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Memo

Date: March 10, 2016
Re: Wake County Stormwater Hybrid Tool Version 2.0

March 10, 2016 update, Version 2.2:

Version 2.2 is the most current version of the SW Hybrid Tool. All submissions not already submitted should begin using Version 2.2.

- Incorrect formula reference for "Triassic Basin" identified and corrected in nitrogen calculations.

March 31, 2015 update, Version 2.1:

The following enhancements were made from Version 2.0 to 2.1:

- Site land uses on BMP Sheets are no longer autopopulated from DA sheets and are instead checked against inputs from corresponding DA Worksheet.
- BMPs in a series only get Target Curve Number (TCN) credit for the greatest volume stored in that series. *Total Volume Treated* on BMP Sheets now provides an engineer override to accommodate some scenarios where the Target Curve Number volume requirement and loading assumptions for BMPs in a series were in conflict. Ex: A Grass Swale to a Dry Detention Pond should be entered in that order for loading calculations. *Total Volume Treated* would be based on the Grass Swale instead of the larger, more appropriate volume associated with the Dry Detention Pond, necessitating an override. Note: BMP Summary *Volume Managed* used for TCN compliance has been corrected, as Version 2.0 only credited volume stored in BMPDA1.
- *Post BMP Peak Discharge* on BMPDA sheets is now autopopulated from the associated DA *Post Peak Discharge* when there is no BMP entered by the engineer.

March 12, 2015 update Version 2.0:

Incorrect cell references were identified in Version 1 that under certain limited development scenarios, it produced inaccurate results for nutrient loading. All identified errors were corrected for Version 2.0. To help track versions, all sheets in the tool include a label at the top noting Version 2.0. Please begin using Version 2.0 from this point forward.

Additionally, the following enhancements to the tool were made for Version 2.0.

- Land use input totals have been added for all DA and BMP DA sheets
- Offsite land use cell formatting changed to better distinguish onsite land uses
- Additional site summary information added to BMP Summary sheet
- Coordination between Site Data, DA sheets and BMP sheets enhanced

Please contact Jennifer Mitchell, Wake County Watershed Management, for any questions or assistance.