

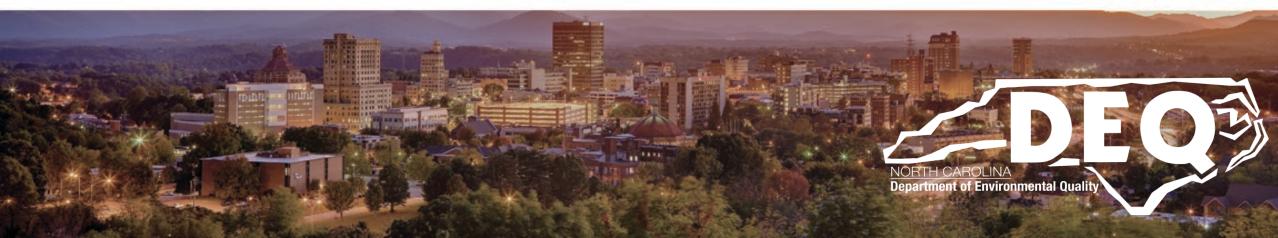
#### Proposal for an SCM Nutrient Data Standards Workgroup

SNAP v4

#### DEPARTMENT OF ENVIRONMENTAL QUALITY

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Nutrient Scientific Advisory Board | April 2019



# Current Approach to SCM Performance Assignment

- Data on TSS performance submitted to DEMLR
- Hydrologic SCM performance and Minimum Design Criteria determined by DEMLR
- Nutrient data standards set by NCSU BPJ and DEMLR's New Stormwater Tech program (NEST)
- Assigning nutrient EMCs relies upon Best Professional Judgement from NCSU
- Review of nutrient EMCs by NSAB



# Problems with Current Approach

- NEST Program is missing nutrient-specific details
- Need to document BPJs in detail or rely on less BPJ
- Need to document what available data are excluded and why
- Variations in how EMCs are assigned and approved
- How to handle challenges to EMC assignment



# Examples of Challenges Assigning EMCs

- Difficulty assigning EMCs for StormFilter non-regional data otherwise sufficient for DEMLR
- Difficulty assigning EMCs for Filterra extreme high and low influent concentrations
- Sand Filters → using influent EMCs as effluent
- Request to treat Dry Detention similar to Sand Filters
- EMC for Floating Wetland Islands uses different approach to other SCMs



# Proposal – Nutrient Data Standards Workgroup

- Evaluate NEST Program to flesh out nutrient data standards
- How frequently to reeval EMCs with new data?
- Standardized data evaluation and EMC assignment
- Allowances for differing EMC assignment methods
- EMC assignment appeals process
- Document approaches for all current SCMs in detail



#### Current Nutrient SCMs

- Bioretention w/ or w/o IWS
- Permeable Pavement
- Wet pond
- Stormwater wetland
- Sand Filter
- Rainwater Harvesting
- Green Roof
- Level Spreader Filter Strip
- Grassed Swale
- Dry Pond

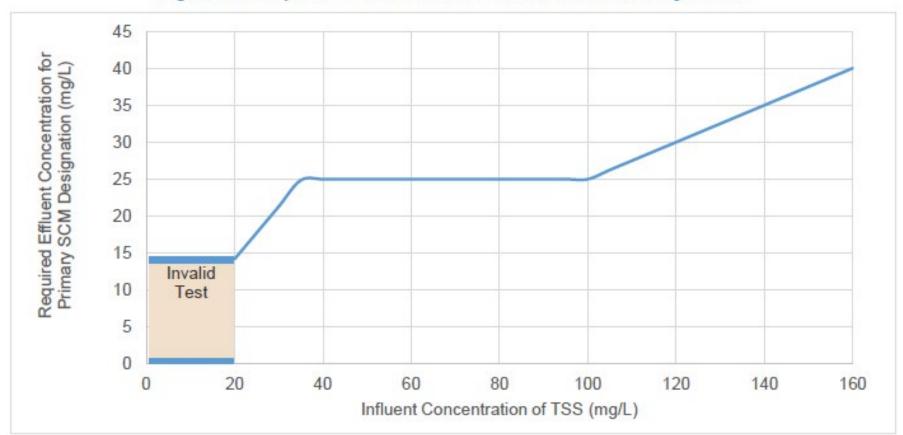
- Bioretention variants
- Permeable Pavement variants
- Pollutant Removal Swale variants
- Sand Filter variants
- Infiltration Systems
- Disconnected Impervious Surface
- Floating Wetlands for Wet Ponds
- LS-FS with Virophos ®
- Silva Cell ® w/ or w/o IWS
- Custom SCMs



Department of Environmental Quality

#### DEMLR's Performance Standard for Primary SCMs

Figure 2: Required Performance Standard for Primary SCMs





# Workgroup Schedule & Approach

- Start June / July 2019
- Monthly meetings
- NCSU provides analysis of available SCM data
- Get into nitty gritty details



#### Volunteer or recommend a participant?

