



# DINWIDDIE COUNTY

PLANNING, ZONING, CODE COMPLIANCE AND ENVIRONMENTAL

## SOIL AMENDMENTS

Plan Name: \_\_\_\_\_ Date Submitted: \_\_\_\_\_

The following checklist only identifies the information and details that must be included in the SWM plan

**USED IN CONJUNCTION WITH:**

- Rooftop Disconnection:   BMP Identifier:
- Filter Strip:                BMP Identifier:
- Grass Channel:            BMP Identifier:

**MINIMUM DESIGN CRITERIA:**

The compost must be derived from plant material and provided by a member of the U.S. Composting Seal of Testing Assurance (STA).	
The compost must be the result of biological degradation and transformation of plant-derived materials under conditions that promote anaerobic decomposition.	
The compost must have a moisture content that has no visible free water or dust when handling the materials.	
The compost must meet the following criteria, as reported by the U.S. Composting Seal of Testing Assurance (STA):	
<ul style="list-style-type: none"> <li>- 100% of the material passes through a ½ inch screen;</li> <li>- The pH is between 6 and 8;</li> <li>- Manufactured inert material is less than 1% by weight;</li> <li>- The organic matter content is between 35% and 65%;</li> <li>- Soluble salt content is less than 6 mmhos/cm;</li> <li>- Maturity is greater than 80%;</li> <li>- Stability is 7 or less;</li> <li>- The carbon/nitrogen ratio is less than 25:1;</li> <li>- The trace material test result is “pass”;</li> <li>- The dry bulk density is between 40 lbs./cu. ft. and 50 lbs./cu. ft.</li> </ul>	

**PLAN REQUIREMENTS:**

Provide the following information:	
<ul style="list-style-type: none"><li>- The topographical information;</li><li>- A soil map for the site and area of the facility;</li><li>- Soil boring locations, if necessary;</li><li>- Show the layout and dimensions of the soil amended area.</li></ul>	
The sequence of construction must address the SWM facility installation and appropriate inspections, including: initial site preparation, excavation/grading, and installation of the embankment, principal outlet structure, and emergency spillway. We recommend the County staff be involved in these inspections.	
The sequence of construction must address the following:	
<ul style="list-style-type: none"><li>- Specify two soil tests (pre-construction 1 ft. down and 1 week after amendments have been incorporated) be provided in the following manner:</li><li>- Deep tilling to a depth of 12-18 inches is needed after the final building lots have been graded.</li><li>- The appropriate compost mix will be incorporated into the soil using a rototiller or similar equipment at a volumetric rate of 1 part compost to 2 parts soil.</li><li>- The soil amendment area must be identified and protected during construction.</li></ul>	
The sequence of construction must clearly state that a construction record drawing and certification that the stormwater management facility has been constructed in accordance with the approved plan must be submitted to the County and approved prior to Erosion Control Bond (ECB) release.	

Engineer Signature: \_\_\_\_\_ Date: \_\_\_\_\_