

Special Short Course and Technical Session

**Using Soil Morphology for Correct Placement of
Stormwater Structures in any Season**

May 23 and 24, 2013

Fairfax County Government Center and Field Locations

Sponsored by:

**Northern Virginia Soil & Water Conservation District
Virginia Association of Professional Soil Scientists
Virginia Tech, Dept. of Crop and Soil Environmental Sciences**

Program Overview

The proper location of stormwater structures including infiltration basins, trenches, and porous pavement requires an accurate estimation of the depth to the seasonal high water table. Currently for professionals that have not successfully completed this training Fairfax County regulations allow determination of the water table depth only during certain months of the year or during certain soil moisture or high groundwater level conditions. Regulations have changed allowing water table determination at any time of the year using appropriate soil morphology, particularly interpretation of soil redoximorphic features. Professional Engineers with geotechnical field experience who successfully complete this training will be certified via an examination to perform these determinations year-round. Virginia Certified Professional Soil Scientists, Wetland Delineators and Geologists in good standing will be certified as well, regardless of whether or not they take the class.

The program will feature an intensive half-day instructional session on May 23 followed by 1.5 days of practical field instruction from soil pits where the fundamentals of soil description and the recognition and interpretation of soil redoximorphic features will be emphasized. Field soil study sites will include Coastal Plain, Fall Zone and Piedmont/Triassic locations. Certified Professional Soil Scientists will staff each field location. Participants are required to wear sturdy boots and hardhats at field sites and will need to drive/carpool to study sites.

CEU's (1.5) will be provided by Virginia Tech for all registrants who attend both days and are included in the \$125 fee. Registration will also cover lunch, refreshment breaks and handouts.



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**Location: Northern Virginia Soil & Water Conservation District
Room 106 - Herrity Building, 12055 Government Center Parkway, Fairfax VA, 22035**

Thursday, May 23

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| 8:00 – 8:30 am | Registration and coffee |
| 8:30 – 9:30 | Overview of stormwater structure placement criteria, engineering practices and constraints <i>John Matusik, P.E. - The Engineering Groupe, Inc</i> |
| 9:30 – 10:15 | Overview of soil morphology and topographic relationships <i>W. Lee Daniels, Ph.D. – Virginia Tech</i> |
| 10:15 – 10:30 | Coffee & Refreshment Break |
| 10:30 – 11:15 | Soil redoximorphic processes and resultant features <i>W. Lee Daniels, Ph.D. – Virginia Tech</i> |
| 11:15 – 12:15 | Estimating depth to seasonal water table and other restrictive features with field soil morphology <i>Erik Severson, M.S. – Virginia Tech</i> |
| 12:15 – 12:45 | Offsets, setbacks and other location constraints Infiltration and permeability testing <i>Bijan Sistani, P.E. -- Fairfax County Public Works</i> |
| 12:45 – 1:30 | Lunch served; wrap-up and questions? |
| 1:30 – 5:00 pm | Adjourn to local field site location(s) |

Friday, May 24

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| 8:00 am to 5:00 pm | Field Test Pits and Practical Training (Maps, schedule and rotation sequence passed out on May 23) Examination for Fairfax County Certification |
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Registration Form

May 23 and 24, 2013

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1.5 CEUs (Must attend both full days)

PLEASE PRINT/TYPE CLEARLY:

Name _____ Work Phone _____
Firm/Org. _____ Fax _____
Address _____ E-mail: _____
City _____ State _____ Zip _____

Amount enclosed \$125.00 (Add \$25 after May 7)

Registration deadline is May 14. Registration maximum is limited to 90 attendees.

Contact Jeff Miller (540-382-0943; Fax: 540-382-2716) for registration or
credit card payments (Mastercard or Visa only).

Payment must be made prior to the meeting to assure box lunch and seating space.

No cancellations/refunds after May 14. Cancellations are subject to a \$25 processing fee.

Make checks payable to VAPSS

Mail check with registration form to:

Jeff Miller, VAPSS
383 Coal Hollow Road
Christiansburg, VA 24073

Interested in joining/information on VAPSS?

Go to: www.vapss.org

