

NC STATE UNIVERSITY
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Delineation of Piedmont and Coastal Plain Jurisdictional Wetlands

*Indoor and field training for
Foresters, Engineers,
Landscape Architects, and Appraisers*



© NC Wetlands Partnership, NC DENR

May 19-23, 2003
Raleigh and New Bern, NC

Sponsored by
**Forestry Educational Outreach Program
NC State University Department of Forestry**

About the Workshop

This workshop is designed to equip natural resource professionals with the knowledge and field skills necessary for delineation of jurisdictional wetlands and application of 404 regulations. Topics include (1) systems of wetlands classification, (2) basic science of wetland hydrology and hydric soils, (3) identification and delineation of jurisdictional wetlands in accordance with U.S. Army Corps of Engineers methods, (4) current status of 404 regulations (including state water quality certification) and (5) principles of wetland mitigation. For foresters who may attend, a special session is available that addresses status and application of the silviculture exemption and assessing criteria for identification of the forested wetland types in which mechanical site preparation for planting pines requires a 404 permit. The course includes extensive field practice in representative wetland types of the Piedmont and Coastal Plain.

Who Should Attend?

This course will be valuable to environmental and forestry consultants, engineers, landscape architects, appraisers, and regulatory professionals whose work involves jurisdictional wetland determinations and/or implementation of wetland mitigation. Natural resource professionals who simply wish a better understanding of wetland science and wetland regulation will also benefit.

About the Instructors

Dr. James D. Gregory is a Professor of Forestry at NC State University and has over 25 years experience in teaching and research in watershed and wetlands hydrology and forest water management. Dr. Gregory has extensive experience in studying the hydrologic characteristics of different types of forested wetlands in the Southeastern Coastal Plain and is knowledgeable in the science of wetlands hydrology and wetlands soils. He is a Certified Professional Soil Scientist and Professional Wetland Scientist.

Dr. Richard R. Braham is an Associate Professor of Forestry at NC State University. Dr. Braham has been a faculty member for more than 20 years and teaches courses in dendrology and natural communities. As a private consultant, Dr. Braham has written over 90 environmental planning documents. He is a NC Registered Forester and a certified Professional Wetland Scientist by the Society of Wetland Scientists.

Dr. Douglas J. Frederick is a Professor of Forestry at NC State University where he teaches and conducts research in forestry and wetland restoration and has been involved in several university-sponsored wetland mitigation projects in the Piedmont and Coastal Plain of North Carolina and private mitigation banking projects in North Carolina, New Jersey, Virginia, Delaware, Tennessee and Washington state.

Registration and Fees

The registration deadline is May 12, 2003. The registration fee is \$725 and includes course instruction and materials, all lunches, morning and afternoon refreshment breaks, field trip transportation and certificate.

Class size is limited, so early registration is encouraged.

Location and Lodging

This five-day workshop will be held at two locations in order to maximize the variety of wetland sites visited on the field trips. **From May 19-21**, the workshop will be held at the Ramada Inn - Blue Ridge in Raleigh, NC. A block of rooms has been reserved under "Wetlands Workshop" for attendees. For reservations at the Ramada Inn call 919-832-4100. **From May 22-23**, the workshop will be held at the Hampton Inn in New Bern, NC. A block of rooms has been reserved at the Hampton Inn - New Bern under "Wetland Delineation Workshop". To make reservations at the Hampton Inn, call 252-637-2111.

Transportation to and from New Bern will be provided.

Lodging is not included in the registration fee.

Wetland Training Certification

The wetland identification and delineation portion of this course is structured in accordance with the concepts, definitions, methods, and data provided in:

- * Corps of Engineers Wetlands Delineation Manual 1987, online edition
- * Guidance documents from HQUSACE referenced in the online edition of the Manual
- * Supplemental references on hydrophytic plants and hydric soils and information available at the WWW sites referenced in the online edition of the Manual.

Students who successfully complete a written exam offered at the end of the course will receive a certificate of training in wetland delineation from the NCSU Department of Forestry.

Accreditation

Foresters: 23.0 Category 1 Continuing Forestry Education (CFE) credits authorized by the Society of American Foresters

Engineers: 26.5 Professional Development Hours (PDH) provided by the North Carolina Board of Examiners for Engineers and Surveyors

Landscape Architects: 10.0 hours of Continuing Education Credit have been requested from the North Carolina Board of Landscape Architects

Appraisers: 30.0 hours of CEC provided by the NC Appraisal Board

Cancellation Policy

Cancellations made before May 12, 2003 will receive a full refund less a \$25.00 service charge. Refunds cannot be given for cancellations after May 12, 2003 - in this case it is recommended you send a substitute.

Course Schedule

Monday May 19, 2003

Registration: 8:30 a.m.

Introduction/Morning Session: 9:00 am-12:00 pm

- Wetlands: definitions and classification, principles of delineation and assessment
 - Hydrology: the science of wetland hydrology and application in wetland delineation; hydrology of NC wetlands
- Afternoon Session: 1:00 pm-5:00 pm
- Hydrology (continued)
 - Hydric soils: the science of reduced soils and application in wetland delineation; hydric soils of NC

Tuesday May 20, 2003

Morning Session: 8:00 am-12:00 pm

- Hydric soils (continued)
 - Hydrophytic vegetation: the science of wetland plants and plant communities and application in wetland delineation, principal wetland plant communities in NC
- Afternoon Session: 1:00 pm-5:00 pm
- Hydrophytic vegetation (continued)
 - USACE wetland delineation methodology: office and field procedures
 - (Optional) Forested wetlands that require a permit for mechanical site preparation for planting pines: description and criteria for identification and delineation

Wednesday May 21, 2003

- Piedmont field trip: 8:00 am-5:00 pm
- Travel to New Bern, NC (Transportation provided)

Thursday May 22, 2003

- Coastal Plain field trip: 8:00 am-5:00 pm

Friday May 23, 2003

Morning Session: 8:00 am-12:15 pm

- Principles of wetland mitigation
- Regulation of dredge and fill in wetlands: Overview of 404 and 401 regulatory programs

Afternoon Session: 1:15 pm-2:00 pm

- Summary, Questions & Answers, Exam
- Travel to Raleigh, NC (Transportation provided)

For More Information

Visit the FEOP website at www.ncsu.edu/feop or contact Becky Bowers at 919-515-9563, fax 919-515-6883 or becky_bowers@ncsu.edu

Registration Form

Delineation of Piedmont and Coastal Plain

Jurisdictional Wetlands

Registration Deadline is May 12th.

Name _____
Organization _____
Address _____
City _____ State _____ Zip _____
Daytime Phone _____
Fax _____
E-Mail _____
Vegetarian Meal Required? _____

Method of Payment

Registration Fee: \$725

_____ Check (*make payable to NC State University*)

_____ Credit Card (*MasterCard or Visa ONLY*)

Card #: _____ - _____ - _____ - _____

Expiration Date: _____

Name of Cardholder: _____

Address of Cardholder: _____

I agree to allow NC State University to charge this credit card for the workshop registration.

Cardholder Signature: _____

Send payment to FEOP, NC State University, Campus Box 8003, Raleigh, NC 27695; or FAX: 919-515-6883

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