



North Carolina Stream Assessment Method (NC SAM) and Training Course

Raleigh, NC - March 21-24, 2016



Class Location:

*Class taught at Moffatt & Nichol offices
1616 East Millbrook Rd, Suite 100
Raleigh, NC 27609
919-522-6364 (Dorney cell)*

Registration Fee:

\$685.00 (or \$660.00 for NCAEP members)

Conducted by:

John Dorney, Sandy Smith, LeiLani Paugh, and Greg Price

Introduction: This 4-day lecture and field course will focus on the North Carolina Stream Assessment Method (Version 2.1) (NC SAM) that was implemented by the U.S. Army Corps of Engineers, Wilmington District (USACE) in a public notice dated April 21, 2015. The USACE intends to utilize NC SAM for internal reviews of permit applications, including decisions regarding the amount and type of compensatory mitigation, avoidance and minimization of impacts, or other decisions pertaining to aquatic resource quality and functions on a case-by-case basis. Environmental consultants, federal and state agency personnel, and local government staff members who deal with regulatory programs related to streams are encouraged to attend. Emphasis will be on identification of North Carolina stream categories, determination of evaluation areas, discussion of evaluation concepts and functional assessment metrics, familiarization with common stream aquatic life, experience using the computer rating calculator, and field exercises in both undisturbed and disturbed streams. The course will conclude with a written test and aquatic life practical, and successful students will be presented with a Certificate of Training. Though the method is specific to North Carolina, this course may also be useful for professionals who work in neighboring states. Continuing education credits have been requested and approved for Foresters (SAF), Engineers (NCBELS), Landscape Architects (NCBOLA), Erosion & Sediment Control (CPESC), and Storm Water Quality (CPSWQ). In addition, others can be sought upon request. Applicants who are interested in continuing education credits must notify us by e-mail so appropriate arrangements can be made.

Instructors:

John Dorney: Senior Environmental Scientist, Moffatt & Nichol and retired from N.C. Division of Water Quality, Wetlands and Stormwater Branch. Mr. Dorney worked with the Division of Water Quality for over 28 years, was actively involved in the development of NC SAM, as well as the N.C. Wetland Assessment Method, and has taught courses in these methods for more than 5 years as well as numerous courses in stream identification in the Southeast. He is an expert in wetland and stream functional assessment, isolated wetlands, as well as wetland and stream permitting.

Sandy Smith: Senior Project Manager, Axiom Environmental, Inc. Mr. Smith has worked as a private environmental consultant in North Carolina for 27 years, was actively involved in the development of NC SAM, as well as the N.C. Wetland Assessment Method, and has taught courses in these methods for more than 5 years. He is an expert in wetland and stream delineation, functional assessment, and permitting.

LeiLani Paugh: ICI/On-Site Mitigation Group Leader, N.C. Department of Transportation (NCDOT), Project Development and Environmental Analysis Branch, Natural Environment Section. Ms. Paugh has worked for NCDOT for 17 years, was actively involved in the development of NC SAM, as well as the N.C. Wetland Assessment Method, and has taught courses in these methods for more than 5 years. She is an expert in wetland and stream delineation, functional assessment, mitigation, and permitting.

Greg Price: Natural Resources Specialist, Froehling & Robertson, Inc. Mr. Price has worked as a private environmental consultant in North Carolina for over 6 years, and as an environmental specialist/biologist for state and local government of NC for more than 20 years, and has taught courses in these methods for more than a year. He is an expert in wetland and stream delineation, stream biological monitoring, and wetland and stream permitting.

Logistics: The lecture portion of the course will be conducted in a classroom setting each morning, while field exercises will be conducted at various locations on Tuesday, Wednesday, and Thursday afternoons. All field trips will depart from the classroom site, and vans will be provided for transportation for the second and third days. Field trips are conducted in all weather conditions except unsafe weather. If field trips cannot be conducted due to weather, the class or a portion thereof will be rescheduled. Knee boots or hiking boots will be adequate for the field trips.

The registration fee includes the NC SAM User Manual, class paper supplies, and field trip transportation, as well as field snacks, drinking water and lunches on two field days. **Liability waivers must be signed upon your arrival to class.**

Registration: Class enrollment is set at a minimum of 25 registrants and a maximum of 30 registrants. Payment can be made to the NC Association of Environmental Professionals (NCAEP) by check or credit card (www.ncaep.org). All checks will be held until we are certain that the minimum number of students is achieved for the class. Registration fees must be received by NCAEP no later than March 14, 2016. Cancellations prior to March 14 will receive a full refund. Cancellations after March 14 will receive a refund of the registration fee, less a \$100 administrative fee. Paid registrations may be transferred to another individual upon written request. No refunds will be given after the start of the class. Registrations after March 14 will be charged an additional \$100.00.