

# Army Corps of Engineers Wetland Delineation Classroom & Field Training by Richard Chinn, PWS, CET, of Richard Chinn Environmental Training, Inc.

This 4-day, 38 hour course covers wetland delineation procedures used and approved by the U.S. Army Corps of Engineers (including the **Eastern Mountains and Piedmont Regional Supplement** or **Atlantic and Gulf Coastal Regional Supplement**) and other regulatory agencies through a combination of inside lecture / class discussion and an equal amount of field demonstrations and repetitions. This course provides approximately 2.6 credit hours of specific wetland coursework toward the Society of Wetland Scientists' **Professional Wetland Scientist** certification, satisfies the training requirements of many agencies, and is a standard credential of wetland delineation competence. Please see our web page, <http://www.richardchinn.com>, for additional information.

## Topics

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| <ul style="list-style-type: none"> <li>! Introduction to the 1987 Manual</li> <li>! Section 404 Authorization</li> <li>! Definition of Waters of the US incorporating the recent <b>SWANCC</b> and <b>Rapanos</b> decisions</li> <li>! Introduction to the Cowardin System</li> <li>! Introduction to Wetland Hydrology</li> <li>! Growing Season determination</li> <li>! Primary Field Wetland Hydrology Indicators</li> <li>! Secondary Field Wetland Hydrology Indicators</li> <li>! Introduction to Hydrophytic Vegetation</li> <li>! Vegetation Adaptations to Hydrology</li> <li>! Vegetation Strata</li> <li>! National Wetlands Inventory Classifications</li> <li>! Morphological, Physiological and Reproductive Plant Adaptations to Water</li> <li>! Selection of Dominant Species (50/20 Test)</li> <li>! Basic Vegetation Test</li> <li>! Introduction to Hydric Soils</li> <li>! Interpreting a Soil Survey</li> </ul> | <ul style="list-style-type: none"> <li>! Soil Taxonomy</li> <li>! Soil Hydrogeochemistry (Reduction / Oxidation) Processes</li> <li>! Soil Colors</li> <li>! Redoximorphic Features</li> <li>! Hydric soil indicators</li> <li>! Off-Site Application</li> <li>! Routine Small Area Application</li> <li>! Routine Large Area Application</li> <li>! Comprehensive Application</li> <li>! Atypical Situations</li> <li>! Problem Areas</li> <li>! Routine Small Area Field Delineation</li> <li>! Delineating wetlands using the regional supplement and the regional supplement data form</li> <li>! How to complete the ACOE Approved Jurisdictional Determination Form (if time permits)</li> <li>! Optional practice examination</li> </ul> |
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### Wetland Delineation Training Registration Form - Raleigh, North Carolina, November 9 - 12, 2010 - \$965

Name: \_\_\_\_\_ ! Date: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_ ! Work Phone (\_\_\_\_\_) \_\_\_\_\_

Email Address: \_\_\_\_\_ ! Fax (\_\_\_\_\_) \_\_\_\_\_

Select Payment Form (U): G  G  G  G  G  G  G  G 

Credit Card No.: \_\_\_\_\_ ! Name on card: \_\_\_\_\_

Signature of Cardholder: \_\_\_\_\_ ! Exp. Date: \_\_\_\_\_

I wish to receive my confirmation via (U):    GEmail (our preference)    GTelephone    GFax    GPostal Mail

Course Location: To be determined. Please see our web page, [www.richardchinn.com](http://www.richardchinn.com), for specific site location.

**Refund Policy:** Full refund if canceled in writing at least 10 business days before a course; 70% refund if canceled in writing at least 3 business days before a course. A full credit is available for use at a different course site if canceled between 10 and 3 business days before a course. The hardship slot is not refundable or transferable. Although very rare, Richard Chinn Environmental Training, Inc. reserves the right to cancel a class and refund all fees.

## The Course Instructor

Richard Chinn, a Certified Environmental Trainer, Certified Wetland Delineator and Professional Wetland Scientist holds BS and MS degrees in Zoology. Mr. Chinn has 22 years experience in wetlands and environmental resource management in both the public and private sectors and 25 years training and teaching experience as a wetland regulator, consultant and community college and university Instructor.

Mr. Chinn has trained 5500+ wetland scientists in ACOE Wetland Delineation protocol nationwide.

Mr. Chinn was Certified during the Army Corps of Engineers' *Wetland Delineation Certification Program Demonstration Phase*.

Mr. Chinn is a former member of the Boards of the Society of Wetland Scientists and National Environmental Safety and Health Training Assn.

## The Course

### Unsolicited quotes from previous participants

*I thoroughly enjoyed your class and took a lot of home with me. Your teaching style is unprecedented-you have a calling to teach!*

*You had great energy, allowed for questions to be discussed, maintained a good sense of humor, and were an engaging speaker. I will recommend your class to others in my company and field.*

Every participant will receive:

- C Comprehensive workbook,
- C Regional Supplement Manual,
- C 1987 Wetland Delineation Manual,
- C State list of hydric soils for that state,
- C NWI list of wetland plants for that Region,
- C Corps' Clarification memoranda,
- C Certificate of completion suitable for framing,
- C Sources of pertinent wetland information,
- C 3.8 Continuing Education Units (CEUs),

## Richard Chinn Environmental Training, Inc. Additional Courses

### Advanced Wetland Management Training

This 4 day course covers the regulatory issues of wetland management, especially the "how-to"s of wetland impact permits.

### Florida Statewide Wetland Delineation Training

This 2 day course covers the wetland delineation method (62-340 FAC) used by the State of Florida, Water Management Districts and Counties and Cities of Florida. This is independent of the Corps method.

### Regional Supplement Wetland Delineation Training

This 1-day course covers the new Army Corps of Engineers Regional Supplement Wetland Delineation method in effect at that location. This course is offered as a standalone course on the fourth day of our 4-day Wetland Delineation Training class.

### On-Line HAZWOPER Annual Refresher

This course satisfies OSHA's requirements for annual refresher training for Hazardous Waste Operations & Emergency Response workers (29 CFR 1910.120).

### Train-the-Trainer for Hazardous Waste Operations and Emergency Response

This 40 hour course provides the training to satisfy OSHA's requirements to become a Hazardous Waste Operations & Emergency Response Trainer and prepares one for the Instructional Technology and Occupational Safety & Health tests to become a Certified Environmental Trainer.

Call us or visit our web page for our current, posted training class schedule.

**On-site training is available for groups as**

## Richard Chinn Environmental Training Wetland and Waters of the US Delineation & Field Training including the new Regional Supplements

**Learn** the Corps' wetland delineation methods, including the new **Regional Wetland Delineation Supplemental Methods**, to correctly delineate wetlands through identification of hydric soils, hydrology and hydrophytes in normal, disturbed, and problem areas,

**Interpret** the current definitions of Waters of the US following the SWANCC and Rapanos Supreme Court decisions,

**Satisfy** the training requirements of state Departments of Transportation, the Corps of Engineers and other government agencies that have mandated or recommended training requirements for their listed wetland contractors,

**Earn** approximately 2.6 credit hours toward **Professional Wetland Scientist** certification by the Society of Wetland Scientists and 3.8 Continuing Education Units that are required by many certifying and licensing bodies

**½ Classroom & ½ Field**

**Raleigh, North Carolina**

**November 9 - 12, 2010**

**\$965**

**Richard Chinn Environmental Training, Inc.**

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Please pass this brochure onto your colleagues.