Corps of Engineers Eastern Mountains & Piedmont Regional Supplement to the 1987 Wetland Delineation Manual

The U.S. Army Corps of Engineers, New York District, announces the publication and one-year trial implementation period of the Eastern Mountains & Piedmont Interim Regional Supplement (supplement) to the 1987 Wetland Delineation Manual (1987 Manual). This supplement was developed by wetland delineation experts from state and Federal agencies and academia with experience within this part of the country. It has been peer reviewed by an independent panel of scientists and practitioners and made available for 90-day public comment period. This interim document will be tested for one year prior to finalization; the one year period will be effective 30 days from the date of this public notice. The supplement will be field tested by interagency teams of state and Federal scientists to assess its clarity and ease of use, and to determine whether its use will result in any spatial changes in wetland delineation for Clean Water Act purposes. Comments on this supplement should be submitted to Karen Mulligan (CECW-CO), U.S. Army Corps of Engineers, 441 G Street, NW, Washington DC 20314-1000 or by email to 1987Manual@usace.army.mil.

The 1987 Manual, this supplement, including data forms, as well as the independent peer review report and response document, the environmental assessment/FONSI prepared under NEPA, and copies of public comments are available on the Regulatory Homepage Website at http://www.usace.army.mil/CECW/Pages/reg_supp.aspx. The testing protocol and questionnaire are attached to this public notice.

The following guidance is superseded by this Supplement, and is hereby rescinded by this public notice:


Region and subregion boundaries are depicted in these documents as sharp lines. However, climatic conditions and the physical and biological characteristics of landscapes do not change abruptly at the boundaries. In reality, regions and subregions often grade into one another in broad transition zones that may be tens or hundreds of miles wide. The lists of wetland indicators presented in these regional supplements may differ between adjoining regions or subregions. In transitional areas, investigators must use experience and good judgment to select the supplement and indicators that are appropriate to the site based on its physical and biological characteristics. Wetland boundaries are not likely to differ between two supplements in transitional areas, but one supplement may provide more detailed treatment of certain problem situations encountered on the site.

If in doubt about which supplement to use in a transitional area, apply both supplements and compare the results. For additional guidance, contact the appropriate Corps of Engineers District Regulatory Office. Contact information for District regulatory offices is available at the Corps Headquarters website http://www.usace.army.mil/CECW/Pages/cecw_reg.aspx

Effective 30 days from the date of this public notice, the supplement data forms and indicators must be used for any data collection for wetland delineations. Field data collected for wetland delineations using the 1987 Manual prior to the effective date of this notice, but not yet submitted to the appropriate Corps District for review and formal approval will be grandfathered. Documentation must be submitted to the appropriate Corps District which clearly shows the field data was collected prior to 30 days from the date of this notice in order to qualify for this grandfather provision. Once this documentation and the field data have been reviewed and approved by the appropriate Corps District, a written jurisdictional determination will be issued.

While we are confident the supplement will improve the accuracy of wetland delineation in the Eastern Mountains & Piedmont, anyone performing a wetland delineation during this interim period using the supplement who believes it has resulted in a significantly different boundary line than the 1987 Manual may also complete the delineation using the 1987 Manual and submit both delineations. Enough points to adequately describe the representative plant communities, soils, and hydrology of the site(s) and to clearly document the difference in boundaries between the two methods must be included. Data recorded on both the existing 1992 data forms and the new supplement data forms, maps indicating the location of the field site and data collection points (upland and wetland), and a completed field evaluation questionnaire for each delineation must be submitted as part of the jurisdictional determination request to the appropriate Corps District Office. The District will make the final determination based on analysis of all the submitted information. This information will also be used in evaluation and potential modification of the supplement.
Questions on this in the New York District may be directed to Christine Delorier at (518) 266-6354.

Richard L. Tomer
Chief, Regulatory Branch

Attachments
Field Testing Protocol

Eastern Mountains and Piedmont Regional Supplement

Organization of field testing teams:

District Offices of the Corps of Engineers in the Eastern Mountains and Piedmont Region (see the list of District coordinators at the end of this document) will coordinate and oversee the field testing of the draft Regional Supplement. Field testing will be done in cooperation with regional NRCS, EPA, FWS, and other interested federal and state agencies and universities.

Field teams will consist of available interagency experts, with the constraint that each team must include an experienced botanist and a soil scientist to ensure the accuracy and reliability of the basic data.

If needed, the District coordinator will provide team members with an introduction to the Regional Supplement and will explain any new or unfamiliar indicators as necessary to avoid confusion over interpretation of the indicators.

Site Selection:

Testing teams should focus on areas where permitting activity is high. There is no need to sample remote areas unless convenient opportunities arise.

Sample a number of typical wetland sites in each District or subregion, plus a selection of available “problem” situations. Problem situations should include, if possible, areas with unusual plant communities or soil types that may lack indicators, requiring use of Chapter 5 (Difficult Wetland Situations in the Eastern Mountains and Piedmont Region) to make the wetland determination.

Approach:

The basic testing approach is to document at least 2 sampling points at each field site, one point in the wetland and one point in the adjacent upland, and determine the location of the wetland boundary between them. The team should collaborate to make the determination and documentation as accurate as possible. Follow these general steps:

1. Document each sampling point based on existing practice (i.e., 1987 Manual with existing guidance memos and existing local interpretation). For each point, completely fill out the old (1992) wetland determination data form. Locate the wetland boundary based on current practice.
2. Document each point using the new (Regional Supplement) data form. Locate the wetland boundary based on indicators and guidance given in the Regional Supplement.

3. If the two wetland boundaries are different, measure the distance between them.

4. Fill out the attached questionnaire (one copy per field site) to help explain any differences seen in the two methods.

5. For each field site sampled, submit the following items to the appropriate District coordinator:
   a. Completed 1992 and Regional Supplement data forms for each sampling point
   b. Sketch map of the site with sampling points, wetland boundaries, and any other important features indicated
   c. One copy of the Field Evaluation Questionnaire
   d. Optional brief report as necessary to explain test results

List of Corps District Coordinators in the Eastern Mountains and Piedmont Region:

Charles Allred, U.S. Army Engineer District, Vicksburg, MS, 601-631-5546
Rodney Christensen, U.S. Army Engineer Kansas City District, Warsaw, MO, 816-389-3979
James (Randy) Clark, U.S. Army Engineer District, Memphis, TN, 901-544-0735
Andrew Commer, U.S. Army Engineer District, Tulsa, OK, 918-669-7616
Christine Delorier, U.S. Army Engineer District, New York, NY, 518-266-6354
Casey Ehorn, U.S. Army Engineer District, Mobile, AL, 205-290-9096
Thomas Fischer, U.S. Army Engineer District, Savannah, GA, 229-430-8566
Scott Hans, U.S. Army Engineer District, Pittsburgh, PA, 412-395-7154
Michael Hayduk, U.S. Army Engineer District, Philadelphia, PA, 215-656-5822
Amanda Jones, U.S. Army Engineer Wilmington District, Asheville, NC, 828-271-7980 x231
Joseph Kassler, U.S. Army Engineer District, Buffalo, NY, 716-879-4432
Katheen Kuná, U.S. Army Engineer District, Nashville, TN, 615-369-7506
Keith McMullen, U.S. Army Engineer District, St. Louis, MO, 314-331-8582
Les Parker, U.S. Army Engineer District, Charleston, SC, 803-253-3904
Lee Pittman, U.S. Army Engineer District, Huntington, WV, 304-399-5210
Frank Plewa, U.S. Army Engineer District, Baltimore, MD, 717-249-2522
Tim Scott, U.S. Army Engineer District, Little Rock, AR, 501-324-5295
Ron Stouffer, U.S. Army Engineer Norfolk District, Dumfries, VA, 703-221-6967
Sam Werner, U.S. Army Engineer District, Louisville, KY, 812-853-5631
WETLAND DELINEATION FIELD EVALUATION QUESTIONNAIRE

This questionnaire should be completed for each boundary delineation performed. The assumption is that two communities were evaluated, one wetland (= "lower community") and one upland (= "upper community") so that a boundary between them could be identified. Fill in the blanks or check spaces as appropriate. Attach copies of the completed field data forms.

Site Name or Location ___________________________ Date ___________________________
Evaluator(s) ___________________________ Affiliation(s) ___________________________

______________________________

General Site Characteristics

Is the site ___ typical or ___ problematic? If problematic, explain: ___________________________

______________________________

Wetland (lower community)

Ecological System: _____ Saline Tidal ____ Fresh Tidal ___ Fresh Nontidal ____ Saline Nontidal
Wetland Type: _____ Forsted ___ Shrub ___ Emergent ___ Moss/Lichen ___ Farmed (hay or crop)
___ Other (specify: ___________________________
HGM Class: _____ Depression ___ Riverine ___ Fringe ___ Slope ___ Flat
Vegetative Cover: _____ Dense ___ Evenly Mixed w/Nonvegetated ___ Sparse

Nonwetland (upper community)

Habitat Type: _____ Forest ___ Shrub ___ Meadow/Prairie ___ Moss/Lichen ___ Farmed
___ Other (specify: ___________________________

1. Was there a marked difference in the two plant communities? ___ Yes ___ No
2. Was there a gradual change in vegetation between the two communities creating a significant "transition zone" between? ___ Yes ___ No. If so, how wide was this transition zone? _____ feet
3. Was there an abrupt topographic change between the two communities? ___ Yes ___ No

Boundary Determination

Compare results from the two methods: (1) current practice using the 1987 Manual and guidance memos, and (2) 1987 Manual with the draft Regional Supplement:

1. The wetland boundary was: ___ the same or ___ different.
2. If different, which method produced the boundary higher on the landscape? _____ Manual with current guidance or _____ Manual with Regional Supplement
3. What was the linear distance between the two boundaries? _____ feet
4. What type of indicator(s) were responsible for the difference in the boundaries? _____ Hydrophytic vegetation _____ Hydric soil _____ Wetland hydrology (check all that apply)
Assessment of the Indicators

Hydrophytic Vegetation

1. Did the lower community pass the current basic test for hydrophytic vegetation (i.e., >50% of the dominants had an indicator status of FAC or wetter, excluding FAC)? ___Yes ___No
2. Did the lower community pass the “dominance test” in the Regional Supplement (i.e., >50% of the dominants were FAC or wetter, counting FAC as FAC)? ___Yes ___No
3. What other indicators of hydrophytic vegetation were observed in the lower community?
   a) List those from the Manual with current guidance:

   ____________________________________________

   b) List those from the Regional Supplement:

   ____________________________________________

4. Was the vegetation in the lower community a problematic wetland community type?
   ___Yes ___No. If so, briefly describe and explain how the problem was handled

   ____________________________________________

5. Did the upper community pass the current basic test for hydrophytic vegetation (i.e., >50% of the dominants had an indicator status of FAC or wetter, excluding FAC)? ___Yes ___No
6. Did the upper community pass the “dominance test” in the Regional Supplement (i.e., >50% of the dominants were FAC or wetter, counting FAC as FAC)? ___Yes ___No
7. What other indicators of hydrophytic vegetation were observed in the upper community?
   a) List those from the Manual with current guidance:

   ____________________________________________

   b) List those from the Regional Supplement:

   ____________________________________________

8. Did both methods reach the same conclusion regarding the presence of hydrophytic vegetation for the upper community? ___Yes ___No. If not, briefly explain

   ____________________________________________

9. Were the hydrophytic vegetation indicators in the Regional Supplement clearly described and easy to apply? ___Yes ___No. If not, briefly explain

   ____________________________________________
Hydric Soil

1. Did both methods find indicators of hydric soil in the lower community?  ____Yes  ____No
   a) List those from the Manual with current guidance:
      __________________________________________________________
      __________________________________________________________
      __________________________________________________________
   b) List those from the Regional Supplement:
      __________________________________________________________
      __________________________________________________________
      __________________________________________________________

2. Did the lower community contain a problematic hydric soil (i.e., one that lacked indicators)?
   ____Yes  ____No.  If so, briefly describe the problem and explain how it was handled:
      __________________________________________________________
      __________________________________________________________
      __________________________________________________________

3. Did both methods reach the same conclusion regarding the presence of hydric soil in the upper
   community?  ____Yes  ____No.  If not, briefly explain
   a) List indicators from the Manual with current guidance:
      __________________________________________________________
      __________________________________________________________
      __________________________________________________________
   b) List indicators from the Regional Supplement:
      __________________________________________________________
      __________________________________________________________
      __________________________________________________________

4. Were the hydric soil indicators in the Regional Supplement clearly described and easy to
   apply?  ____Yes  ____No.  If not, briefly explain
      __________________________________________________________
      __________________________________________________________
      __________________________________________________________

Wetland Hydrology

1. Did both methods determine that wetland hydrology was present in the lower community?
   (Requires 1 primary indicator or 2 secondary indicators.)  ____Yes  ____No
   a) List indicators from the Manual with current guidance:
      Primary: ____________________________________________ Secondary: _______________________
      __________________________________________________________
      __________________________________________________________
   b) List indicators from the Regional Supplement:
      Primary: ____________________________________________ Secondary: _______________________
      __________________________________________________________
      __________________________________________________________
2. Did the lower community contain a problematic wetland hydrology situation (i.e., one that lacked indicators)?
   Yes__ No. If so, briefly describe the problem and explain how it was handled:

   ________________________________________________________________
   ________________________________________________________________

3. Did both methods reach the same conclusion regarding wetland hydrology for the upper community? Yes__ No. If not, briefly explain:

   a) List indicators from the Manual with current guidance:
      Primary:__________________________ Secondary:__________________________
      ________________________________________________________________
      ________________________________________________________________

   b) List indicators from the Regional Supplement:
      Primary:__________________________ Secondary:__________________________
      ________________________________________________________________
      ________________________________________________________________

4. Were the wetland hydrology indicators in the Regional Supplement clearly described and easy to apply? Yes__ No. If not, briefly explain:

   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________

   Comments on the Regional Supplement

1. Were the indicators and procedures in the Supplement clear and easy to apply? Yes__ No. If not, how could they be improved?

   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________

2. In your opinion, did the Regional Supplement make this wetland determination more defensible? Yes__ No. Briefly explain:

   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
3. Based on your testing, do you want to recommend other indicators that should be considered for further evaluation?  ____Yes  ____No. List by indicator type:

________________________________________________________________________________________________________________________________________________________

________________________________________________________________________________________________________________________________________________________

________________________________________________________________________________________________________________________________________________________

4. Was the Regional Supplement’s field data form complete, understandable, and easy to fill out?  ____Yes  ____No. If not, how could it be improved?

________________________________________________________________________________________________________________________________________________________

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________________________________________________________________________________________________________________________________________________________

5. Any additional comments or suggestions?

________________________________________________________________________________________________________________________________________________________

________________________________________________________________________________________________________________________________________________________

________________________________________________________________________________________________________________________________________________________