



## North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor  
William G. Ross Jr., Secretary  
Document ID No. 4565

### SOLID WASTE SECTION

May 20, 2008

Mr. John Boyer  
Camp, Dresser & McKee  
5400 Glenwood Avenue, Suite 300  
Raleigh, North Carolina 27612

Subject: C&D Closure – Response to Questions  
Buncombe County Solid Waste Management Facility  
Buncombe County, Permit No. 11-07

Dear Mr. Boyer:

Thank you for your email inquiry, May 14, 2008, regarding the regulatory requirements for Closure and Post Closure Plans. To ensure accuracy I have copied your questions from the email.

1. The closure criteria now include criteria for a low permeability cap, gas venting, and 5% to 25% side slopes. Even though our approved permit application for the C&D LF called for a different cap, no gas venting, and up to 3:1 post settlement slopes, these new requirements must be met when the LF is closed (and therefore addressed in the closure plan). Please confirm.

This is correct. The new cap system requirements found in Rule .0543(c) supersede the original design since the rule was promulgated January 1, 2007 after the issuance of the last permit.

2. Assuming no greater than 25% slopes are required, but we pursue the option to have alternative (3:1) post-settlement slopes, what would be required to demonstrate "stability, encourage runoff, be safe to operate and be safe to construct during operation and closure activities", other than the existing geotechnical report and additional information that was included in the original Permit submittal? When would this demonstration be required (as part of the closure plan, or at the time of closure)?

As you indicate, Rule .0543(c)(3)(C) allows for alternative slopes to be approved by the Division. In general, post-settlement slopes of 3:1 would be approved if the design was certified, by PE stamp, to be stable, encourage runoff and be safe to construct, operate and maintain. The post-settlement slope design certification should be submitted as part of the closure plan prior to closure of the facility.

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Mr. John Boyer, CDM  
Permit #11-07  
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Should you have any other questions regarding this matter please contact me at (828) 296-4703.

Sincerely,

A handwritten signature in black ink, appearing to read 'Allen Gaither', with a stylized flourish at the end.

Allen Gaither  
Environmental Engineer

Cc: Kenton Yang, P.E. Camp, Dresser & McKee 5400 Glenwood Avenue, Suite 300 Raleigh, North Carolina 27612  
Jerry Mears, Buncombe County Solid Waste, 81 Panther Branch, Alexander, NC 28701  
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