



North Carolina Department of Environment and Natural Resources

Dexter Matthews, Director

Division of Waste Management

Pat McCrory, Governor

John E. Skvarla, III, Secretary

SOLID WASTE SECTION

February 14, 2013

Pieter K. Scheer, P.E.
Vice President, Senior Engineer
Smith Gardner, Inc.
14 N. Boylan Avenue
Raleigh, NC 27603

Re: **Alternative Cover Material Demonstration Authorization Letter
Johnston County MSW and C&D Landfills, 51-03**

Dear Mr. Scheer:

This letter is in response to your request for approval to demonstrate the capability of an Alternative Cover Material (ACM) at the referenced landfill. This Authorization Letter conditionally approves the Demonstration Project as described in your letter dated January 24, 2013, for a period of 90 days. This period of time provides you with time to perform the Demonstration Project, and to compile and submit the certified Demonstration Report to the Solid Waste Section for review. The demonstration period will expire on June 1, 2013.

The ACM must comply with 15NCAC .1626(2)(b) which requires the Operator to demonstrate that the ACM will control disease vectors, fires, odor, blowing litter, and scavenging without presenting a threat to human health and the environment. The ACM shall not be used more than five consecutive days without placing soil over the previously filled areas and shall cover all of the exposed waste each time it is used.

The demonstration period does not allow for or give exemption to the requirements for Daily Cover. If the use of the product is not sufficient for daily cover, it should not be used. It is the operators' responsibility to ensure an adequate cover is being provided. The continued use of the product should not continue if it does not appear to be adequately covering the waste.

After one to two months of using the conditionally approved ACM, the facility operator may then either:

- (1) provide a certified Demonstration Report demonstrating the feasibility to request approval for the use of the ACM on a full-time basis, or
- (2) cease use of the ACM, properly dispose of any remaining ACM, and provide a Closure Letter detailing the findings of the use of the material during the approval period and what actions were taken to dispose of the material.

The certified Demonstration Project report must be signed by the operator and certified by a professional engineer licensed in North Carolina. The report would include documentation addressing the performance and effectiveness of the material, the number of times the ACM was used, the quantities of the ACM, and other supportive information, including photographs.

Following satisfactory demonstration of the ACM and application, the Solid Waste Section may issue a modified permit for the facility that includes the ACM operation.

Please note that the continuation of the use of this ACM is performance based. Should the application of Alternate Cover Material become impracticable or contribute to conditions hazardous to public health, safety or the environment, the operator is responsible for immediately terminating the ACM use and applying compacted earthen material cover in accordance with the Solid Waste Rules.

Impracticable conditions are conditions that make the placement of Alternate Cover Material difficult due to adverse climate such as rain, wind, or frozen precipitation, or other conditions that adversely affects the ability of the ACM to meet the Performance Standards. The operator must maintain a ready stockpile of earthen material cover material and the equipment necessary to apply the earthen material cover to respond to an adverse situation. Therefore, approval of the continued use of the ACM may be revoked at any point in time by the Division.

If you have any questions, please call me at 919-693-5023 or e mail me at mary.whaley@ncdenr.gov

Sincerely,



Mary Whaley
Environmental Senior Specialist
Solid Waste Section

cc: Rick Proctor, Johnston County Solid Waste Director
Ed Mussler, NCDENR, Solid Waste, Permitting Branch Supervisor
Donna Wilson, NCDENR, Solid Waste, Permitting Engineer
Dennis Shackelford, NCDENR, Solid Waste Section, Eastern District Supervisor

One
North Carolina
Naturally

P.O. Box 59, Oxford, North Carolina 27565, Phone: 919 693-5023, email:
mary.whaley@ncdenr.gov <http://portal.ncdenr.org/web/wm/sw>