



North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

Solid Waste Section

November 1, 2011

Mr. Tom Miller
Solid Waste Director
P.O. Box 3289
130 S. Queen Street
Kinston, North Carolina 28501

Re: Additional Comments on the revised Permit Application for Continued Operation
(Application)
Lenoir County Construction and Demolition Debris Landfill (C&DLF)
Lenoir County, North Carolina
Permit No. 54-03, Document ID No. (Doc ID) 15513

Dear Mr. Miller:

On October 20, 2011, the Division of Waste Management (DWM), Solid Waste Section received the letter dated October 14, 2011 and the revised Application (Doc ID 15497), submitted by Municipal Engineering Services Co., Inc. (MESCO), on behalf of Lenoir County, to respond the DWM's comments (Doc ID 15045) dated August 30, 2011. After conducting a review on the new submittal I have additional comments on the Operation Plan stated below, and your responses to the following comments will expedite the review of the Application:

Operation Plan

1. Land Clearing and Inert Debris (LCID) Unit:
 - i. According to the responses letter dated October 14, 2011 (Doc ID 15497), the County is closing the LCID landfill unit located on the northeast corner of the C&DLF, and the Solid Waste Section considers this is an official notification of ceasing waste disposal of and closing the LCID unit. Pursuant to the Solid Waste Management Rule (Rule) 15A NCAC 13B .0566(5), the County must to complete the closure activities before or on February 17, 2012. Or the County can schedule a different closure completion date and provide the reasons and facts to support the decision which will be subject to the DWM approval. Please address this LCID closure plan in the Application or in a separate document within ninety (90) days after receipt of the letter.
 - ii. For the sake of the consistency between drawings and texts in the Application, please add the "closed LCID unit" in the Section 1.1 – Introduction (2nd paragraph) of the Operation Plan (on Page 4).

2. The Storm Debris and Mulching Area is permitted for temporarily (the duration for operating this unit is six months) storing and/or processing storm debris which can only be operated if a natural disaster occurs in the service areas. This unit is not a waste disposal/ landfill unit; therefore, please
 - i. Delete the phrase "and are disposed of" in the Section 1.2 – Operational Requirements, Paragraph 1. m. (on Page 7) and
 - ii. Add "(when it is permitted for operation) next to the Storm Debris Area [Paragraph 1. H.xv. (on Page 6) & Paragraph 1. m. (on Page 7)].
3. To prevent fire, if the wooden pallets are chipped and stockpiled on site for more than 30 days, the County must monitor and control the stockpile temperature of ground material which shall not exceed 150 degree Fahrenheit at any time. Please add this requirement and the information of the monitoring frequency, instrument, actions taken (such as turning over wastes, wetting), and notation/documentation (shall be placed in the operating record) of the monitoring and control activities to the Section 1.2, Paragraph g.
4. Section 1.5 – Small Type -1 Composting Plan:
 - i. According to Rule 15A NCAC 13B .1402(f)(6), the Small Type 1 Composting facility must occupy an area less than or equal to 2 acres. In compliance with this requirement please describe the acreage of the composting area in this Section.
 - ii. Please address the operational requirements stated in Rules 15A NCAC 13B .1406 [Rule 15A NCAC 13B .1402(g)(3)(B) & (C)] in this Section.
 - iii. Please provide the boring logs of MW-8 or MM-10 to demonstrate that vertical separation requirement stated in Rule 15A NCAC 13B .1404(a)(10)(B) is fulfilled.
 - iv. Please add "3" affront of days in item 11.
 - v. To demonstrate the operational requirement set forth in Rule 15A NCAC 13B .1406(10) will be properly implemented, please provide the information of the frequency, instrument, and documentation (shall be placed in the operating record) of temperature measurement activities in this Section.
 - vi. To prevent fire, if the ground material is stockpiled on site for more than 30 days, the County must monitor and control the stockpile temperature of ground material which shall not exceed 150 degree Fahrenheit. Please add this requirement and the information of the monitoring frequency, instrument, actions taken (such as turning over wastes, wetting), and notation/documentation (shall be placed in the operating record) of the monitoring and control activities to the Section

Facility Plan

5. The Rule 15A NCAC 13B .0537(e)(2) defines the gross capacity as the volume of the landfill calculated from the initial waste placement through the top of the final cover, include any periodic cover. Therefore, the total gross capacity of the C&DLF will be 1,126,540 cubic yards (cy), the sum of the total air space of 1,039,420 cy permitted in 1997 and the volume of the final soil cover system of 87,120 cy. Please
 - i. Change the value of total gross capacity of the C&DLF to 1,126,540 cy at the first sentence of the third paragraph of "General" section, on Page 45 and
 - ii. Describe how the total gross capacity is derived from.

6. In the Facility Plan, please describe the C&DLF **service area** and the **waste disposal rate** – daily (based on the working day per year) and annually - e.g. ton per day and ton per year approved by the Lenoir County Board of Commissioners [Rule 15A NCAC 13B .0537(e)(1)(B) &(C)]. The annual C&D waste disposal rate of 20,000 tons per year was described in the approved 1997 “Site and Construction Transition Plan.” The June 17 2010 Facility Compliance Audit Report stated the landfill service area is Lenoir County. If the mentioned above info is not subject to change in the future, please reiterate the info in the Facility Plan.
7. The life expectancy calculation is based on the rate of 23,868 cubic yards per year, for the first year and an annual increase of 3.1% for each year thereafter. Please also provide this annual rate of 23,868 cubic yards per year in unit of “**tons per year.**”

On November 1, 2007 the Solid Waste Section approved the Assessment of Corrective Measures for the C&DLF dated August 2007. In the approval letter, the Solid Waste Section requested the County to conduct a public meeting to discuss the assessed corrective measures with affected and interested parties in compliance with Rule 15A NCAC 13B .1635(d). The copies of documentations of the requested public meeting are not appended in the Corrective Action Plan (CAP) and can't locate in the DWM file system, either. Please submit the copy of the public meeting records stated in the Rule 15A NCAC 13B .1635(d).

On October 29, 2010 the Solid Waste Section requested the County to submit an updated CAP to reflect corrections and changes in design presented in the existing CAP dated February 13, 2009 and revised April 30, 2009. The updated CAP is not available in the DWM file system. Please submit the update CAP.

Please submit the requested documents and timely respond the above-referenced comments which shall be incorporated into the revised Application. One hard copy and an electronic copy for each submittal are required. The Solid Waste Section appreciates your patience, efforts, and cooperation in these matters. If you have any permitting questions, please contact myself at (919) 508- 8507.

Sincerely,



Ming-Tai Chao, P.E.
Environmental Engineer II
Permitting Branch, Solid Waste Section

cc:

Wayne Sullivan, MESCO
Dennis Shackelford, DWM
Central File

Ed Mussler, Permitting Branch Supervisor
Wes Hare, DWM