Clayton, Sr., P.E., Inc.
Civil & Environmental Engineering

May 25, 2006

PN: 03023

Mr. Ed Mussler, PE, Permitting Branch Supervisor
NCDENR Solid Waste Section
401 Oberlin Rd Suite 150
Raleigh, NC 27699

RE: **Dunn Erwin Landfill, Harnett County, NC**
C&D Cell Permit Extension Request and Revised Final Grades
Permit # 43-02

Dear Mr. Mussler,

Per our recent meeting and conversation on April 21, 2006 this letter is to request the permit extension for the Dunn-Erwin Landfill through January 1, 2008. Attached you will find a revised plan of the final contours for the C&D cell. This plan was generated to take advantage of the airspace available in the location of the existing large cell haul/access road.

Based on the revised landfill design and corresponding life expectancy calculations there is sufficient area for solid waste until April 1, 2008. However, a new cell should be permitted and constructed prior to January 1, 2008. The Dunn-Erwin landfill is currently receiving 50,000 cubic yards of solid waste a year. The proposed contours for the landfill will provide 116,291 cubic yards or air space which calculates to just over 2 years of life duration.

Access to the top of the existing landfill will be provided by the construction of an access road up the West side of the landfill using fill material and sloped to a ditch by the landfill to direct storm water. The proposed access road at the top will be constructed as the future lifts for the landfill are constructed. The proposed top of the landfill is 306 feet with a 5% grade to the 296 feet contour to drain to the South side of the landfill. Side slope berm/swales will be constructed to control stormwater runoff and erosion.

Please refer to the enclosed drawing and life expectancy spreadsheet for more detail. Feel free to call either C.T. or myself if you have any questions or would like to discuss this.

Sincerely,

C. Tyrus Clayton Jr., P. E.
Vice President

/attachment

cc: file
C. T. Clayton, Sr., P. E. (C. T. Clayton, Sr., P. E., Inc.)
Geoffrey Little (NCDENR, Solid Waste Section)
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Expected Life of New Expansion

Assume

1. 1,000 lbs of C&D waste = 1 cyd of landfilled waste under normal compaction
2. Weekly Cover Soil Ratio 8:1 for every 8cyd of C&D, 1 cyd of weekly cover soil
   8:1 = .125
3. Average waste intake for life of the cell*= 25,000 tons/year

Design Info

Total Space =	139,593	cyds
2ft Final Cover =	23,302	cyds
Airspace =	116,291	cyds

Calculation of Life Expectancy of New Cell

1) Total volume used per year = 25,000 tons

25,000 tons = 50,000,000 lbs

50,000,000 lbs = 50,000 cyds of C&D trash

50,000 x .125 = 6250 cyds of weekly cover

Total Volume Used Per Year = 56,250 cyds/year

2) Time left before design grade (minus 2ft final cover) is met

Total Volume = 116,291 cyds

Time Left = 116,291 cyds / 56,250 cyds/year

Time Left = 2.07 years

By: SBK
Date: 5/17/06