

Fac/Perm/Co ID #	Date	Doc ID#
BC	01/04/11	DIN

OPERATION/CONSTRUCTION MANAGERS

CIVIL/SANITARY ENGINEERS

**Municipal
Services**



**Engineering
Company, P.A.**

PO Box 97, Garner, North Carolina 27529 (919) 772-5393

PO Box 349, Boone, North Carolina 28607 (828) 262-1767

January 12, 2006

RECEIVED
N.C. Dept. of Envt.
JAN 17 2006
Winston-Salem
Regional Office

Mr. Tim Jewett
Regional Engineer
NC DENR
Solid Waste Section
585 Waughtown Road
Winston-Salem, NC 27107

Re: Permit Renewal
Alexander County Construction & Demolition Landfill

Dear Mr. Jewett:

Enclosed please find two (2) copies of the above referenced plans for permit renewal. Along with the plans, we have included our life expectancy calculations.

If you have questions or comments, please do not hesitate to contact me in our Garner office.

Very truly yours,
MUNICIPAL ENGINEERING SERVICES CO., PA

D. Wayne Sullivan
Project Manager

Enclosures

Copy: Mr. Ed Mussler w/enclosures
Mr. Josh Mitchell wo/enclosures

LIFE EXPECTANCY CALCULATIONS
ALEXANDER COUNTY C & D
LANDFILL FACILITY

RECEIVED
N.C. DEPT. OF ENR
JAN 17 2006
Winston-Salem
Regional Office

Given:

Based on the survey data, Alexander County averages approximately 23,102 yd³ per year therefore:

*Landfill Volume Available 1st Year: = 22,321 cubic yards
*Landfill Volume Available 2nd Year: = 24,107 cubic yards
*Landfill Volume Available 3rd Year: = 22,075 cubic yards

Total Site Volume:

Life Expectancy 1st Year = 22,321 cubic yards ÷ 23,102 cubic yards
= 0.97 years

Life Expectancy 2nd Year = 24,107 cubic yards ÷ 23,102 cubic yards
= 1.04 years

Life Expectancy 3rd Year = 22,075 cubic yards ÷ 23,102 cubic yards
= 0.96 years

Total Expansion = 2.97 years

*Determined by AutoCADD computer program.

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LANDFILL FACILITY

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