



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

FINAL FACT SHEET
SOLID WASTE PERMIT NUMBER 54-03

FACILITY: Lenoir County Construction and Demolition Debris Landfill
COUNTY: Lenoir
CITY: La Grange, North Carolina
OWNER/OPERATOR: Lenoir County
130 S. Queen Street
Kinston, North Carolina 28501

DESCRIPTION

Lenoir County has applied for a permit to continue operating the existing Lenoir County Construction and Demolition Debris Landfill (C&DLF) and has submitted a groundwater corrective action plan, in accordance with 15A NCAC 13B .0547 (4). The 108.94-acre landfill facility consists of a C&DLF unit located on top of the closed unlined Municipal Solid Waste Landfill (MSWLF) unit and other specific waste management areas. Lenoir County C&DLF is located on 2949 Hodges Farm Road in La Grange and owned and operated by Lenoir County.

The closed unlined MSWLF encompassing waste footprints of approximately 47 acres received municipal solid wastes from 1982 to 1998. It was incrementally closed from 1994 to 2000. Following the closure, the top of the northern portion (approximately 18 acres) of the unlined MSWLF landfill was approved to construct the C&DLF and began receiving C&D wastes for disposal in December 1997. The vertical expansions of the C&DLF units encompass approximately 18-acre waste footprints with a total gross capacity of approximately 1,126,540 cubic yards. The development of C&DLF consists of a total of six (6) phases; the first two phases (Phases 1 & 2) of which are completed and used for landfilling, and the Phase 3 is developed and ready for operation. The life of Phase 3 is approximately 5 year. Phase 3 through Phase 6 provide approximately 21.5 years of disposal capacity.

No changes are proposed at this time to increase the disposal volume, annual waste acceptance rate (tons per year) or service area. The remaining gross capacity of the C&DLF unit is approximately 616,973 cubic yards (CY), as of May 8, 2009 including waste space of 529,853 CY and final cover system of 87,120 CY. The C&DLF unit is expected to reach its capacity in approximately 2031 based on the average disposal rate of 23,868 CY per year (14,321 tons per year or 50 tons per day based on 286 operating days annually) for the first year and an annual increase of 3.1% for each year thereafter. If waste receipts are less, the landfill service life could last longer. The facility is permitted to receive construction and demolition debris generated from the Lenoir County consistent with the local government solid waste management plan(s), local government approvals dated June 16, 2008 by the Lenoir County Board of Commissioners.

This C&D Landfill unit is permitted to dispose of land clearing/inert debris and construction/demolition debris resulting solely from construction, remodeling, repair, or the demolition of pavement, buildings, or other structures. Regulated asbestos-containing material as defined in 40 CFR 61 must be managed in accordance with 40 CFR 61 and may be accepted for disposal. Hazardous wastes or other banned wastes such as municipal or industrial solid wastes, liquid waste, medical waste, radioactive waste, PCB wastes, yard trash, white goods, septage, sludge, and special wastes are not approved for disposal.

A corrective action plan to address groundwater contamination associated with the closed unlined MSWLF was prepared in accordance with the Solid Waste Management Rules .1635 through .1637. An assessment of corrective measures for groundwater treatment was presented at a public meeting held on March 26, 2008. The selected remedies for implementation to correct the groundwater issues includes monitored natural attenuation coupled with a passive gas venting system to control decomposition gases, the existing institutional controls, and capping for the source control. The draft permit contains conditions for the implementation, operation, and assessment of the action plan.

The Division of Waste Management (Division) has determined that the proposed facility plan, operations plan, closure and post-closure plan, construction quality assurance plan, water quality monitoring plan, corrective action plan, and the documentation of public meetings and local government approval satisfied the requirements of the Solid Waste Management Rules as codified in 15A NCAC 13B .0531, et seq. and 15A NCAC 13B .1630 through .1637. The Division has prepared Solid Waste Permit 54-03 allowing the continued operations of the existing Lenoir County C&DLF unit on top of the closed MSWLF.

PERMIT STRUCTURE

The permit is divided into two parts, the Permit to Construct and the Permit to Operate. A Permit to Operate is issued for 5-year increments of operation. The permit includes a list of approved documents and specific conditions for the operations of landfill units and other specific waste management areas, implementation of the groundwater Corrective Action Plan, and closure and post-closure cares associated with the closed municipal solid waste landfill.

PUBLIC COMMENT PERIOD

North Carolina Solid Waste Management Rules required that the public be given an opportunity to comment on a draft permit for a municipal solid waste management facility. This 45-day comment period began on January 28, 2012, and ended on March 12, 2012. The draft permit was available for review by appointment from 9 AM to 4 PM, Monday-Friday, at the Division of Waste Management, at the building address shown below. All data submitted by the applicant were available as part of the administrative record. Persons who wished to comment on the proposed permit conditions or to object to the permit issuance have submitted their comments in writing by 5:00 PM, March 12, 2012. Comments have been sent to the mailing address shown below and include the permit number. All comments received within the 45-day period were considered in making the final determinations regarding the permit.

PUBLIC HEARING

Public hearings have been conducted in accordance with the Solid Waste Management Rules to address the continued operation of the C&DLF and the Corrective Action Plan for the MSWLF. The Division believed the pertinent issues involved in the permit decision were addressed in these hearings and did not plan to conduct a public hearing during the aforementioned 45-day public comment period; however, opportunities for the requesting a public hearing were given to the general public. No written request for a public hearing was received by the Division during this comment period.

NOTIFICATION

Persons who wanted to receive notice of the final permit decision were allowed to register with the division contact.

DIVISION CONTACT

North Carolina Division of Waste Management
Solid Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1646
Attention: Ming-Tai Chao
Phone Number: (919) 707-8251
Email: Ming.Chao@ncdenr.gov

FINAL PERMIT ACTION

Permit to Operate 5403-CDLF-1997 was issued on April 2, 2012 to Lenoir County as owner and operator for the Lenoir County C&DLF. The final permit reflects the conditions of the draft permit and incorporates the above-referenced responses to comments received during the public comment period. Additional changes were made to the draft permit for enhancing the groundwater monitoring program at the C&DLF by sampling additional constituents on the Appendix II of 40 CFR Part 258 according to the revised Ground and Surface Water Sampling and Analysis Plan to the Corrective Action Plan (Doc ID 16358) dated March 23, 2012.