



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

Beverly Eaves Perdue  
Governor

Dexter R. Matthews  
Director

Dee Freeman  
Secretary

August 9, 2011

Mr. Larry Garriss  
Solid Waste Director  
Halifax County Dept. of Public Utilities  
P. O. Box 70  
Halifax, NC 27839

Re: Halifax County Coal Ash Monofill, Halifax County, North Carolina, Permit No. 42-04-INDUS-1994, Doc ID No. 14680

Dear Mr. Garriss:

A review of our files has revealed that the Permit to Operate for the Halifax County Coal Ash Landfill has expired. The last permit to operate was issued May 15, 2000.

A permit amendment (renewal) application should be submitted to our office. The application should contain the information in the attached guidance.

One paper copy and one electronic (pdf) copy of the application should be submitted. After the Section receives the application, the County will be sent a permitting fee invoice for \$18,500.

The application should be submitted within a reasonable timeframe. Please contact me with a schedule for submittal of the application.

If you have any questions, please contact me at (919) 508-8510 or by email at [donna.wilson@ncdenr.gov](mailto:donna.wilson@ncdenr.gov).

Sincerely,

Donna J. Wilson  
Environmental Engineer  
Solid Waste Section

Enclosure

cc: Mary Whaley

## **Application guidance for permit renewal of the Halifax County Coal Ash landfill**

A cover letter should state that the application is a permit amendment.

The application should consist of the following sections in a narrative, report format.

### **Section 1 - General Information**

1. Landfill name.
2. Name, address, telephone number and email address of each person involved with the facility including the landowner, the business owner, the operator and the person in responsible charge of the daily operations.
3. Name, address, telephone number and email address of the applicant's consulting engineer.
4. Name, address, telephone number and email address of person to receive permit fee invoices and annual fee invoices.
5. A narrative description of the landfill location. Briefly describe the landfill's history, previous permits, and other solid waste management activities on the property, past and present.
6. The total acreage of the property and the landfill footprint acreage.
7. A complete copy of the current land deed, a legal description of the property, and a copy of any available current plats or survey drawings of the property.

### **Section 2 - Updated Operation Plan**

1. Description of the wastes accepted, and source(s).
2. Calculation of cubic yards or tons currently managed at the facility, to be managed over the life of the facility, and for each 5-year phase of operation.
3. The counties in which the waste materials originate (service area for the facility).
4. The equipment used for the operation of the facility.
5. Site security and access control. Access roads must be of all-weather construction. Access to the monitoring wells and surface water sampling locations must be all-weather construction and maintained in good condition.
6. The hours of operation.
7. Signs posted at the entrance and within the site to direct traffic, as needed.
8. The procedures for handling unacceptable wastes including the storage of unacceptable wastes and the frequency of removal of the waste. Unacceptable waste must not be disposed in the landfill.
9. Description of the progression of fill operation, including initial waste placement, daily fill operations, yearly contour transitions, and final contours.
10. Surface water control features including run-on and run-off. Describe plan for operation of the facility in wet weather. Provide a copy of the stormwater and/or wastewater permit. Describe maintenance of the sedimentation pond.

11. Description of the leachate collection system design, operation, and maintenance. Provide documentation as to whether an NPDES permit is required prior to the discharge of leachate to surface waters.
12. Recordkeeping, including copies of all permits, operations plan, inspections, water quality monitoring, amounts of waste received, and site drawings, which must be kept on site at all times.
13. Application of cover material including the frequency and source of the cover material.
14. Provisions for dust control. Provide correspondence from the Division of Air Quality stating that an air permit is not required, or provide information on the County's application process for an air discharge permit.

### **Section 3 – Facility Plan**

1. Describe the comprehensive development of the ash monofill facility. Include drawings and a description of the long-term design related to construction, operation, and closure, spanning the active life of the landfill. The areal limits, total capacity, and the waste stream must be consistent with previous Section approval. The landfill should be divided into phases, each phase providing approximately 5 years of operating capacity.
2. Provide a capacity table listing details for the life of the landfill. Include gross volume, acreage, estimated operating life, and fill status (such as partially filled, filled, not constructed, etc.) for each phase of the landfill, existing and planned. Gross volume is defined as the volume from the bottom of waste to the top of final cover. The table should provide the total volume and acreage for the landfill, consistent with previous Section approval. The table or text should also list the estimated remaining operating life of the landfill.

### **Section 4 – Water Quality Monitoring Plan**

Provide an updated approved Water Quality Monitoring Plan, including a map showing the location of all monitoring wells and surface water sampling locations.

### **Section 5 – Closure and post-closure plan**

#### Closure plan:

1. A description of the final cover, designed to minimize infiltration and erosion. The cap must be designed to have a permeability less than or equal to the permeability of the base liner (i.e., the final cover must contain a geomembrane equivalent in permeability to the geomembrane in the base liner). Final cover must include a layer sufficient to provide and sustain vegetative cover. Post-settlement slopes must be a minimum of 5 percent and a maximum of 25 percent. Alternate slopes may be approved if stability calculations are provided.
2. Provide an estimate of the largest area of the landfill requiring final cover at any time for all areas that have received a permit to operate.
3. Provide an estimate of the maximum inventory of wastes on-site over the active life of the landfill facility.

4. Provide a schedule for beginning application of final cover for each phase, and for completing construction of final cover for each phase. Describe certification of final cover that will be provided to the Section.
5. Description of plan to establish vegetative cover.

Post-Closure Plan:

1. A description of the monitoring and maintenance activities, and the frequency at which these activities will be performed. The final cover should be maintained and corrected for settlement, erosion, and loss of vegetation. Stormwater control features, sedimentation ponds, and groundwater wells must be monitored and maintained.
2. Name, address, and telephone number of the person or office responsible for the facility during the post-closure period.
3. Description of groundwater and surface water monitoring.
4. Description of leachate collection system operation and maintenance.
5. A description of the planned uses of the property during the post-closure period.

**Section 6 – Financial assurance**

1. Closure costs - Provide a written estimate, in current dollars, of the cost of hiring a third party to close the largest area requiring final cover, which has received a permit to operate.
2. Post-closure costs – Provide a written estimate, in current dollars, of the cost of hiring a third party to conduct post-closure care. The post-closure cost estimate must account for the total costs of conducting post-closure care, including annual and periodic costs as described in the post-closure plan over the entire post-closure care period.
3. Potential Assessment and Corrective Action – Provide a written cost estimate to conduct potential assessment and corrective action for the landfill, or list the default amount of \$3 million, in accordance with NCGS 130A -295.2(h).
4. After the Section agrees with the Closure and Post-Closure costs provided in the application, financial assurance must be provided in accordance with NCGS 130A-295.2.

**Section 7 – Signature Pages**

Applicant signature page (see attached).

**Section 8 – Engineering Drawings**

Engineering drawings should be prepared and sealed by a NC professional engineer, drawn to scale, and should include:

- Existing and future waste boundaries, contours and elevations
- Property boundaries, buffers
- Gates/fences or other access control features
- Utilities such as sewer and stormwater
- Existing and proposed roads

- Sedimentation basin details and stormwater segregation features
- Existing surface water features (ditches, ponds streams, wetlands, etc.)
- Leachate and runoff collection details
- Buildings (existing and proposed)
- Concrete foundations/pads and all other ground cover for the site operation
- Distances to wells and residential structures
- Borrow and stockpile areas
- Defined phases of development, in approximately 5 years operating capacity
- Transitional contours for each phase
- Final contour drawing
- Final cover details
- Other pertinent physical characteristics of the site, such as floodplains, wetlands, etc

### **Rules and Laws**

The North Carolina Solid Waste Section Rules and applicable statutes are on the Section website as follows:

Solid Waste Rules: <http://portal.ncdenr.org/web/wm/sw/rules/rulelist>

General Statutes: [http://www.ncleg.net/EnactedLegislation/Statutes/HTML/ByArticle/Chapter\\_130A/Article\\_9.html](http://www.ncleg.net/EnactedLegislation/Statutes/HTML/ByArticle/Chapter_130A/Article_9.html)

**Applicant Signature Page**

Name of facility \_\_\_\_\_

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision and that the information provided in this application is true, accurate, and complete to the best of my knowledge.

I understand that North Carolina General Statute 130A-22 provides for administrative penalties of up to fifteen thousand dollars (\$15,000.00) per day per each violation of the Solid Waste Management Rules. I further understand that the Solid Waste Management Rules may be revised or amended in the future and that the facility siting and operations of this solid waste management facility will be required to comply with all such revisions or amendments.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Title

\_\_\_\_\_  
Business or organization name