



**FACILITY COMPLIANCE AUDIT REPORT**  
**Division of Waste Management**  
**Solid Waste Section**

<b>UNIT TYPE:</b>											
Lined MSWLF		LCID		YW		Transfer		Compos t		SLAS	<b>COUNTY: Gaston</b> <b>PERMIT NO.: 36-02</b> <b>FILE TYPE: COMPLIANCE</b>
Closed MSWLF	<b>X</b>	HHW		White goods		Incineration		T&P		FIRM	
CDLF		Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO		SDTF	

**Date of Audit:** February 22, 2011

**Date of Last Audit:** Undetermined

**FACILITY NAME AND ADDRESS:**

Gaston County-Biggerstaff Landfill  
 Abel Road  
 Bessemer City, NC 28016

**GPS COORDINATES:** N: 35.33548 W: 81.29084

**FACILITY CONTACT NAME AND PHONE NUMBER:**

Ray Maxwell, Public Works Director (704) 992-0267  
 ray.maxwell@co.gaton.nc.us

**FACILITY CONTACT ADDRESS:**

Post Office Box 1578  
 Gastonia, North Carolina 28053

**AUDIT PARTICIPANTS:**

Marcie Smith, Solid Waste and Recycling Administrator  
 Barry Cloninger, Landfill Supervisor  
 Charles Gerstell, NCDENR-Solid Waste Section

**STATUS OF PERMIT:**

An initial closure letter was issued on December 11, 1991. A subsequent closure letter was issued on July 24, 1996.

**PURPOSE OF AUDIT:**

Comprehensive Audit

**NOTICE OF VIOLATION(S):**

None

You are hereby advised that, pursuant to N.C.G.S. 130A-22, an administrative penalty of up to \$15,000 per day may be assessed for each violation of the Solid Waste Statute or Regulations. For the violation(s) noted here, you may be subject to enforcement actions including penalties, injunction from operation of a solid waste management facility or a solid waste collection service and any such further relief as may be necessary to achieve compliance with the North Carolina Solid Waste Management Act and Rules.

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**STATUS OF PAST NOTED VIOLATIONS:**

None

**AREAS OF CONCERN AND COMMENTS:**

1. Semi-annual groundwater sampling was being performed.
2. A gate was provided at the entrance to the facility to prevent unauthorized entry.
3. Edge of waste markers were in place.
4. An asphalt runway measuring 30' x 400' has been constructed on the landfill for use of model airplanes. Two open-air structures have also been constructed for use as a picnic area and operations of the runway along with a gravel parking area. Documentation shows that a conditional use permit was issued by the Gaston County Board of Commissioners on January 27, 1994 for this activity, but no documentation could be found providing evidence that approval for this activity was obtained from the Solid Waste Section. Please submit documentation to the Solid Waste Section for approval of this activity and all construction associated with it. The submittal should be sent to:

Larry Frost, Environmental Engineer  
Division of Waste Management, Solid Waste Section  
2090 US Highway 70  
Swannanoa, North Carolina 28778  
(828) 296-4500

5. Documentation provided by Gaston County indicated that landfill gas is checked annually at all groundwater monitoring wells on the property. During a meeting at the Mooresville Regional Office on March 11, 2011, Marcie Smith clarified the labeling given to the wells and how the testing was performed. A hose from a Landtec Gem 2000 is lowered into the well and the opening to the well is covered by the operators hand to act as a cap. Documentation detailing methane reading from January 30, 2006 through March 11, 2010 shows that methane has been detected at groundwater monitoring wells 1, 3, 4, 4D, and 5. It is recommended that Gaston County perform further evaluation to determine if methane levels are present at the property boundary, and if those levels are above the lower explosive limit in accordance with **15A NCAC 13B .0503(2)(a) which states: The concentration of explosive gases generated by the site shall not exceed the lower explosive limit for gases at the property boundary.**
6. An area of significant settlement was observed southwest of the runway at the first terrace from the top of the landfill near the edge of waste marker. It appeared that water ponds in this area as evidenced by dead vegetation. This area should be repaired to prevent ponding and stabilized with a groundcover sufficient to restrain erosion.
7. A large area of ponding was observed was observed in a drainage swale located on the east side of the landfill. This area should be repaired to prevent future ponding and stabilized with a groundcover sufficient to restrain erosion.
8. Groundwater monitoring wells 2, 2D, 3, 4, and 4D were observed in the field and found to be locked and labeled.
9. A good vegetative cover was observed on the landfill. Majority of vegetation was well mowed. However, vegetation west of the landing strip was too high to prevent a thorough inspection of the area. This vegetation should be mowed back to allow for a thorough inspection of the surface of the landfill.

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Please contact me if you have any questions or concerns regarding this audit report.



Charles T. Gerstell  
Environmental Senior Specialist  
*Regional Representative*

Phone: (704) 235-2144

Delivered on : <u>3/28/11</u> by	<input checked="" type="checkbox"/>	Electronic Correspondence	<input type="checkbox"/>	US Mail	<input type="checkbox"/>	Certified No. <input type="checkbox"/>
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Cc: Deborah Aja, Western District Supervisor  
Ed Mussler, Permitting Branch Head  
Larry Frost, Environmental Engineer  
Donald Herndon, Compliance Officer