



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

**UNIT TYPE:**

Lined MSWLF	LCID	YW	Transfer	Compost	<b>X</b>	SLAS	COUNTY: Durham PERMIT NO.: SWC-32-04 FILE TYPE: COMPLIANCE
Closed MSWLF	HHW	White goods	Incin	T&P		FIRM	
CDLF	Tire T&P / Collection	Tire Monofill	Industrial Landfill	DEMO		SDTF	

**Date of Audit:** January 14, 2011

**Date of Last Audit:** June 29, 2010

**FACILITY NAME AND ADDRESS:**

City of Durham Compost Facility

**GPS COORDINATES:** N: 36.0381

E: -78.8511

**FACILITY CONTACT NAME AND PHONE NUMBER:**

Robert Williams  
 919-560-4186 ext 32224

**FACILITY CONTACT ADDRESS:**

Solid Waste Management Department,  
 Attn: Donald Long, Director  
 1833 Camden Avenue  
 Durham, NC 27704

**AUDIT PARTICIPANTS:**

Chris Marriott – NCDENR, Solid Waste Section  
 Bruce Woody – City of Durham, Assistant Solid Waste Disposal Manager

**STATUS OF PERMIT:**

Permit Issued: June 9, 2010  
 Permit Expiration: June 9, 2015

**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.

**STATUS OF PAST NOTED VIOLATIONS:**

None

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**AREAS OF CONCERN AND COMMENTS:**

- 1) City started receiving waste at this facility on June 21, 2010.
- 2) Incoming material observed consisted of Christmas trees, leaves, small sticks and limbs. The city also accepts unpainted wood pallets and other unpainted lumber for grinding and sale as boiler fuel.
- 3) Incoming yard waste is ground and windrowed. The ground material is then delivered to Novozymes North America (SWC 35-04) to complete the composting process. Windrows are not required to be maintained above the requirements in 15A NCAC 13B .1406(10) since the material is delivered to another permitted compost facility for curing prior to distribution to the public.
- 4) A review of the temperature readings indicated that the temperature of the ground pallets had not been monitored. The City should initiate temperature monitoring on the wood chip pile to ensure that the pile does not generate excessive temperatures.
- 5) Two windrows of ground material were found on-site. Temperature measurements are taken 2-3 times per week to ensure that the windrows do not build up excessive heat (temperatures greater than 160 degrees F). Windrows are monitored for temperature in 8 locations along the length of the windrow by City of Durham employees. Recorded temperatures generally ranged from 100-140 degrees F.
- 6) Facility is designed and permitted to contain all storm water and leachate in a collection basin. All liquids draining from processing areas are contained in a lined pond. Collected liquid is then delivered to the City's WWTP. Originally collected water was hauled via tanker truck to the WWTP. The City's Water Management Department recently installed a dedicated gravity feed line with shut off valve to the City's sanitary sewer. Pictures of the line are included below. **The City should submit to the Solid Waste Section a letter that updates the Operations Plan and explains how this line is operated and monitored.**



- 7) The level of water in the pond at the time of inspection was 301 feet, which is well below the limit of 302.28 feet stated in the permit.
- 8) The heights of the various material piles/windrows were discussed with Mr. Woody. Permit condition # 11 limits the incoming material to a height of 12 feet, the windrows to a height of 7 feet, and the product storage to 10 feet high. Piles observed on-site appeared to be approaching these limits. Mr. Woody said that the City would monitor the pile size at the same time as the temperature readings are taken. He also indicated that the City may build some type of simple measuring device that can be held beside the piles to accurately determine if the piles are over the limits listed in the permit.
- 9) The tonnage of yard waste received at the facility was reviewed. In the first six months of the reporting year, the facility has accepted 39.3% of its permitted annual limit. The monthly tonnages for the current reporting year are:

July 2010:	832.18 tons
August 2010:	892.62 tons
September 2010:	740.3 tons
October 2010:	891.24 tons
November 2010:	1178.60 tons

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December 2010: 961.2 tons

- 10) No blowing litter or debris was observed on site.
- 11) The city has two fire hydrants on-site to provide a water source for extinguishing a fire.

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



Phone: 336-771-5090

Chris Marriott  
Environmental Senior Specialist  
*Regional Representative*

<b>Delivered on :</b> <u>January 26, 2011</u> <b>by</b>		Hand delivery	<b>X</b>	E-Mail		Certified No. [ ]
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CC (via email): Mark Poindexter, Field Operations Branch Supervisor  
Jason Watkins, Central District Supervisor  
Donald Herndon, Compliance Officer  
Michael Scott, Composting & Land Application Branch Supervisor