



FACILITY COMPLIANCE AUDIT REPORT
Division of Waste Management
Solid Waste Section

UNIT TYPE:											
Lined MSWLF		LCID		YW		Transfer		Compost	X	SLAS	COUNTY: Watauga PERMIT NO.: 95-04 SWC FILE TYPE: COMPLIANCE
Closed MSWLF		HHW		White goods		Incin		T&P		FIRM	
CDFL		Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO		SDTF	

Date of Audit: March 9, 2010

Date of Last Audit: August 13, 2009

FACILITY NAME AND ADDRESS:

Appalachian State University Small, Type III Solid Waste Compost Facility
 265 Dale Street
 Boone, NC 28608-2105

GPS COORDINATES: N: 36.21323 E: -81.65750

FACILITY CONTACT NAME AND PHONE NUMBER:

Jennifer B. Maxwell, Resource Conservation Manager
 w: 828-262-3190 x. 108
 c: 828-406-4090
 f: 828-262-4017
 maxwelljb@appstate.edu

FACILITY CONTACT ADDRESS:

265 Dale Street
 Boone, NC 28608-2105

AUDIT PARTICIPANTS:

John Patrone, NCDENR – Solid Waste Section (SWS)
 Jennifer Maxwell, Resource Conservation Manager
 Stanley Carroll, Operations Manager

STATUS OF PERMIT:

Permit To Operate (PTO) issued July 20, 2006
 PTO expires July 1, 2011.

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 VIOLATION(S):

None

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AREAS OF CONCERN AND COMMENTS:

On March 9, 2010, John Patrone met with Jennifer Maxwell and Stanley Carroll and conducted a comprehensive audit of the Small, Type III Solid Waste Compost Facility located adjacent to the ASU Physical Plant on Dale Street in Boone, Watauga County.

1. The facility site plan and operations plan were discussed.
2. The facility is a Small, Type III Solid Waste Compost Facility. It produces compost from pre-consumer fruit and vegetable waste, coffee grounds, cooked meat, and shredded paper that is generated by ASU Food Services. The facility primarily uses woodchips, provided by New River Light & Power (electric power company serving ASU), as a bulking agent but will also use shredded pine bark and sawdust if available.
3. The compost produced is used by ASU landscape services and the (ASU) Sustainable Development Teaching and Research Farm. Compost is not distributed to individuals or the general public.
4. The facility uses the static aerated compost method. It aerates one pile at a time. The material aerated is covered with finished compost in order to help ensure universal pathogen reduction.
5. There are three storage bins (cinder block bay, open at one-end) used to store bulking agent, food waste covered with finished compost (prior to static aeration), and finished compost (to cover food waste and use in berm construction).
6. Woodchip and food waste is combined in a 50:50 mixture to form piles of material to be aerated for compost. When aerated, the piled material is covered with a layer of finished compost. The material in the storage bays is covered with a tarp when not in use.
7. Runoff is controlled by berms constructed of woodchip and finished compost that are placed in front of the storage bins and the material being aerated for compost.
8. The facility must ensure that the berms are removed prior to saturation and rebuilt, as per the facility operation plan. Runoff from the compost operation should not flow to the nearby stormwater drain.
9. Used berm material is placed into the food waste storage bin to be incorporated with material to be aerated for compost.
10. The material to be composted is aerated for ~ 20 days. Afterward, the (aerated) compost pile is brought down the road (~ 500 yards) to a curing area where, once cured, the finished compost can be picked-up by ASU personnel. The compost cures in ~ 8 months but can be used sooner in non-esthetic applications.
11. Temperature records were verified for July 2009 through February 2010. The temperature records demonstrate that the facility obtained $\geq 131^{\circ}\text{F}$ for 3 days and $> 104^{\circ}\text{F}$ for an additional 11 days, with an average temperature of $> 113^{\circ}\text{F}$.
12. Testing records were verified for fecal coliform (Statesville Analytical), Heavy Metals (NCDA&CS – Agronomic Division), and manmade & inert material (ASU). Records were reviewed for September 2009. Ms. Maxwell stated that testing is conducted March and September, annually.
13. Tonnage records for fiscal year 2009 – 2010 were reviewed: July: 10.80 tons, August: 8.70 tons, September: 12.50 tons, October: 10.05 tons, November: 8.80 tons, December: 6.40 tons, January: 8.20 tons and February 9.35 tons. Total throughput (food waste and wood chip/sawdust) to-date: 74.80 tons.
14. The facility has proper signage.
15. The facility was asked to ensure that material in the storage bins does not come in contact with the material being aerated for compost. Ms. Maxwell stated that the wall separating the two will be lengthened accordingly.
16. The finished compost stored in the compost curing area should be turned, as per schedule, until removed from site.

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



Phone: 336-771-5095 Fax: 336-771-4631

John Patrone
Environmental Senior Specialist
Regional Representative

Delivered on : <u>March 12, 2010</u> by		Hand delivery	<input checked="" type="checkbox"/>	US Mail		Certified No. <input type="checkbox"/>
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cc: Mark Poindexter, Field Operations Branch Supervisor
Jason Watkins, Central Regional Supervisor
Donald Herndon, Compliance Officer
Michael Scott, Composting & Land Application Branch Head