NCDENR
NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

FACILITY COMPLIANCE AUDIT REPORT
Division of Waste Management
Solid Waste Section

UNIT TYPE:

Lined MSWLF		LCID		YW	X	Transfer		Compost		SLAS	
Closed MSWLF	X	HHW		White goods	X	Incin		T&P		FIRM	
CDLF	X	Tire T&P / Collection	X	Tire Monofill		Industrial Landfill		DEMO		SDTF	

COUNTY: Lee
PERMIT NO.: 53-01
FILE TYPE: Compliance

Date of Audit: April 15, 2011 Date of Last Audit: June 26, 2009

FACILITY NAME AND ADDRESS:
Lee County Closed Sanitary Landfill & Closed C&D Landfill
433 Landfill Road
Lemon Springs, North Carolina

GPS COORDINATES: N: 35.36602 W: -79.18845

FACILITY CONTACT NAME AND PHONE NUMBER:
Joseph Cherry, Solid Waste Supt., Lee County General Services Dept.
(919) 718-4622

FACILITY CONTACT ADDRESS:
Lee County General Services
P.O. Box 1968
Sanford, North Carolina 27330

AUDIT PARTICIPANTS:
Joseph Cherry, Solid Waste Supt., Lee County
Russell Spivey, General Services Director, Lee County
Dean Caudill, Landfill Operator, Lee County
Robert Hearn, Solid Waste Section

STATUS OF PERMIT:
Permit Issued: July 25, 1995
Permit Modification #1: March 15, 2002
Landfill Closed: July 1, 2008

PURPOSE OF AUDIT:
Comprehensive audit

NOTICE OF VIOLATION:
(no violation)

You are hereby advised that, pursuant to N.C.G.S. 130A-22, an administrative penalty of up to $5,000 per day may be assessed for each violation of the Solid Waste Statute or Regulations. If the violation(s) noted here continue, 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)

AREAS OF CONCERN AND COMMENTS:

1. The Lee County Resource Management facility, owned and operated by Lee Co., includes a closed Construction and Demolition (C&D) Waste Landfill, a closed Sanitary (MSW) Landfill, a Yard Waste Treatment and Processing (YWT&P) Facility, a White Goods and Scrap Metal Area, and a Scrap Tire Collection area. The facility is open from 8:00 a.m. until 4:00 p.m., Monday through Friday, and from 8:00 a.m. until 12:00 p.m. on Saturday. Conducted an inspection of the closed C&D Landfill, closed Sanitary Landfill, and associated units, accompanied by Lee County General Services staff, as noted above.

2. Access to this facility is controlled by a gate at the entrance, which is closed and locked after operating hours.

3. Observed that signage with required permit number, emergency contact information and waste-exclusion requirements is in place at the entrance to the facility.

4. Observed that traffic-control signs are in place at the facility entrance, scale-house area, and along facility service roads.

5. Reviewed the facility operating records located at landfill office. Landfill Post-closure plans, as well as facility permits, approved operations and site plans, inspection records, and staff training records were made available for inspection.

6. Reviewed C&D and Sanitary Landfill groundwater and surface-water monitoring records at the landfill office. The most recent Groundwater & Surface Water Analysis Report, dated October 14, 2010 (October 4 & 5, 2010 sampling event), was available for review. Several previous analysis reports were also available for review. Assessment monitoring is currently conducted by Terraquest Environmental Consultants, P.C.

7. Also reviewed Landfill Gas Monitoring analysis records at the landfill office. The most recent Environmental Monitoring Report, dated September 2, 2010 (September 2, 2010 sampling event), was present. Detection monitoring is currently conducted by Lee County General Services staff.

Closed C&D Landfill

8. The C&D Landfill ceased accepting waste on June 30, 2008. Following closure of the landfill and installation of a clay cap, a post-closure inspection of the landfill was conducted by Solid Waste Section staff on June 26, 2009.

9. Observed that required edge-of-waste markers are in place around the perimeter of the C&D Landfill disposal area.

10. Observed that vegetative cover is satisfactory over most of the C&D Landfill slope areas. Observed some barren areas on the site, however, particularly on the west slope of the landfill. Take timely actions to repair any barren spots and establish adequate vegetative cover. Consult local N.C. Agricultural Extension agents for advice on repair, species selection, and application of lime and fertilizer, as needed, so as to achieve a dense, perennial stand of vegetation on any problem areas.

11. Observed that vegetative cover is properly maintained by mowing. No woody plants were observed on landfill disposal areas at the time of inspection.

12. Observed erosion on C&D Landfill slopes at the time of inspection, including vehicle access points on the northern slope. Moderate to severe erosion was noted on portions of the western landfill slope. Observed that mulch has been applied to many of these eroded spots as a short-term measure to minimize further erosion. Take prompt actions to repair any eroded areas by applying soil and grading to achieve proper management of storm water runoff.

13. As part of ongoing maintenance of the site, regularly monitor C&D Landfill surfaces and slopes for erosion and vegetative cover issues, and implement timely measures to correct any problems. Again, take actions to establish vegetative cover on disturbed, repaired, or barren areas as soon as possible.

14. Observed that the ditches along the toe of the C&D Landfill slopes which control surface runoff from the landfill are full of sediment in many areas. Take actions to clear perimeter ditches of accumulated sediment and maintain proper function of ditches in managing surface runoff.

15. No evidence of leachate break-outs was observed at the C&D Landfill during the inspection.

16. Observed that monitoring wells were accessible, properly labeled, and locked.

Closed Sanitary Landfill.

17. An unlined Sanitary (MSW) Landfill was operated on several areas at the facility until October, 1993. A clay cap was installed on the portion of the Sanitary Landfill operated between 1991 and 1993.

18. Observed that edge-of-waste markers are in place around the perimeters of the Sanitary Landfill disposal areas, as required.

19. Observed evidence of inadequate drainage of surface runoff on the Sanitary Landfill areas, including the presence of plants which favor wet soil conditions on several areas on the closed landfill areas. Regularly monitor landfill surfaces for evidence of ponding or inadequate drainage of surface runoff, and take timely actions to repair any such areas by applying an adequate amount of suitable soil, followed by grading to allow controlled runoff, and re-establishment of vegetative cover, as described above.

20. Observed that vegetative cover is satisfactory over most surfaces of the Sanitary Landfill disposal areas, although some barren areas were noted at several locations on each disposal area. Take timely actions to repair any barren spots and establish adequate vegetative cover. As noted above, consult local N.C. Agricultural Extension agents for advice on re-establishment of perennial vegetation on any problem areas.

21. Observed that vegetative cover is properly maintained by mowing. No woody plants were observed on Sanitary Landfill disposal areas at the time of inspection.

22. As mentioned above, ongoing maintenance should include regular monitoring of Sanitary Landfill surfaces and slopes for erosion and vegetative cover issues; implement timely measures to correct any problems, and take actions to establish vegetative cover on disturbed, repaired, or barren areas as soon as possible.

23. No areas of severe erosion were observed on the closed Sanitary Landfill during the inspection.

24. No evidence of leachate break-outs was observed on the Sanitary Landfill during the inspection.

Yard Waste Treatment and Processing Area

25. Inspected the Yard Waste T&P Area. Observed that yard waste is managed at the site in a discrete, orderly, and manageable pile. Also observed that processed vegetative material was stored in a small, orderly windrow at the site.

26. Observed that a drainage ditch exists at the low point of the Yard Waste site to allow for proper drainage of storm water runoff from the site. Continue to maintain operational surfaces in this area by grading to promote controlled drainage of storm water runoff from the site. Consider establishment of vegetative cover along the ditch area to limit movement of silt and other constituents of runoff into the ditch.

White Goods and Scrap Metal Management Area

27. Observed that the White Goods and Scrap Metal area of the facility was maintained in a neat, orderly condition. Other wastes collected and stored in discrete locations in this area include electronics, used oil and oil filters, antifreeze, and lead-acid batteries. A containment basin is in place under the used-oil collection tank.

28. Observed that scrap metal and white goods in the Scrap Metal Management Area were stored in a discrete pile, except for Freon-containing appliances, which were staged adjacent to the pile in a manner to prevent damage to the units prior to required extraction of Freon. Stateline Scrap Metal, Inc. is contracted to handle and remove metals from the facility, including extraction of Freon from white goods.

Scrap Tire Collection Area

38. Observed that the Tire Collection Area was neat and orderly, with all tires at the site contained in trailers.

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

Robert Hearn

Robert Hearn
Environmental Senior Specialist
Regional Representative

Phone: (919) 508-8525

cc: Jason Watkins, Central District Supervisor
Shawn McKee, Compliance Officer

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