



FACILITY COMPLIANCE AUDIT REPORT
Division of Waste Management
Solid Waste Section

UNIT TYPE:											
Lined MSWLF	<input checked="" type="checkbox"/>	LCID		YW		Transfer		Compos t	<input checked="" type="checkbox"/>	SLAS	COUNTY: Lincoln PERMIT NO.: 55-03 FILE TYPE: COMPLIANCE
Closed MSWLF		HHW		White goods	<input checked="" type="checkbox"/>	Incineration		T&P	<input checked="" type="checkbox"/>	FIRM	
CDLF	<input checked="" type="checkbox"/>	Tire T&P/ Collection	<input checked="" type="checkbox"/>	Tire Monofill		Industrial Landfill		DEMO		SDTF	

Date of Audit: September 1, 2010

Date of Last Audit: April 27, 2010

FACILITY NAME AND ADDRESS:

Lincoln County Landfill
 5291 Crouse Road
 Crouse, North Carolina 28033

GPS COORDINATES: N: 35.42288 W: 81.35695

FACILITY CONTACT NAME AND PHONE NUMBER:

Nancy C. Rickard, Deputy Director of Solid Waste
 (704) 732-9030
 nrickard@lincolncounty.org

FACILITY CONTACT ADDRESS:

Same as above

AUDIT PARTICIPANTS:

Nancy Rickard, Deputy Dir. Of Solid Waste
 Mark Bivins, Lincoln County
 Charles Gerstell-NCDENR, Solid Waste Section

STATUS OF PERMIT:

A Permit to Operate-Modification was issued to Lincoln County on September 15, 2009. This permit approved the operation of *Lincoln MSW And C&D Landfill, MSW Unit Phases I, II, and III, C&D Unit Phase IIA, and Miscellaneous Treatment and Processing Units.* **The permit shall expire on March 11, 2011.**

PURPOSE OF AUDIT:

Comprehensive Audit/Complaint Investigation

NOTICE OF VIOLATION(S):

15A NCAC 13B .1626(4)(a)(ii) states in part: *Owners or operators of all MSWLF units must ensure that the concentration of methane gas does not exceed the lower explosive limit for methane at the facility property boundary.*

Methane monitoring records indicated that methane was recorded in excess of the lower explosive limit at methane monitoring well #6 on February 17, 2010 (18.4 percent by volume) and June 7, 2010 (14.8 percent by volume). Methane was recorded in excess of the lower explosive limit at methane monitoring well #7 on February 17, 2010 (8.4 percent by volume). Both methane monitoring wells #6 and #7 are located at the at the facility property boundary. Therefore, Lincoln County is in violation of 15A NCAC 13B .1626(4)(a)(ii).

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15A North Carolina Administrative Code 13B .1626(4)(c) states: *If methane gas levels exceeding the limits specified in 4(a) are detected, the owner or operator must: (i) Immediately take all necessary steps to ensure protection of human health and notify the Division; (ii) Within seven days of detection, place in the operating record the methane gas levels detected and a description of the steps taken to protect human health; and (iii) Within 60 days of detection, implement a remediation plan for the methane gas releases, place a copy of the plan in the operating record, and notify the Division that the plan has been implemented. The plan shall describe the nature and extent of the problem and the proposed remedy.*

Lincoln County failed to notify the Division of methane levels above the lower explosive limit at the property boundary as recorded on June 7, 2010 and February 17, 2010. Review of records found that no description had been placed in the operating record detailing the steps taken to protect human health, and no remediation plan had been implemented. Therefore, Lincoln County is in violation of 15A NCAC .1626(4)(c)(i) – (iii).

Lincoln County Landfill Gas Monitoring Form
 Lincoln County Landfill Permit # 55-03

Date: 6-7-10
 Field Personnel: Mark Bivins / Jimmy Wise
 Ambient Outside Temperature: 80°F
 Ambient Barometric Pressure: 30.01
 General Weather Conditions: Clear Hot
 Meter Name and Model Number:
 Meter Calibration Date: 6-7-10

Field Measurements:					
Well	Time of	Measurements			
Identification	Measurement	% LEL	% CH ₄	% CO ₂	% O ₂
MW-01	12:54 p.m.	0	0	3.1	16.3
MW-02	1:13 p.m.	0	0	2.5	17.5
MW-03	1:25 p.m.	0	0	3.0	13.6
MW-04	1:26 p.m.	0	0	0	19.9
MW-05	1:33 p.m.	0	0	6.1	12.1
MW-06	1:41 p.m.	>1000	14.8	14.0	1.4
MW-07	1:48 p.m.	40	2.0	12.3	2.4
MW-08	1:59 p.m.	46	2.3	14.4	0.2
SCALEHOUSE added 10/07/03	2:00 p.m.	0	0	0.1	19.7
LANDFILL SHOP added 10/07/03	2:20 p.m.	0	0	0	20.1
LIFT STATION added 1/30/09	2:15 p.m.	0	0	0.1	19.9

LINCOLN COUNTY LANDFILL
METHANE GAS MONITORING LOG
LANDFILL DSWM - PERMIT # 55-03

DATE 2-17-10 Checked
 CALIBRATED BY: Mark Bivins / Jimmy Wise

WELL #	SAMPLE POINT	% LEL	% METHANE	COMMENTS	SAMPLED BY
# 1	MW - 01	0	0		Dmb
# 2	MW - 02	0	0		Dmb
# 3	MW - 03	0	0		Dmb
# 4	MW - 04	0	0		Dmb
# 5	MW - 05	0	0		Dmb
# 6	MW - 06	308	19.4		Dmb
# 7	MW - 07	168	8.4		Dmb
# 8	MW - 08	0	0		Dmb
# 9	*Added 10/07/03 SCALEHOUSE	0	0		Dmb
# 10	*Added 10/07/03 LANDFILL SHOP	0	0		Dmb
# 11	*ADDED 1/30/09 LIFT STATION	0	0		Dmb

METHANE GAS TESTING 01/30/2009

To achieve compliance, a remediation plan must be submitted to the Division of Waste Management, Solid Waste Section within 30 days of receipt of this audit report with Notice of Violation(s) describing the nature and extent of the methane gas releases and a proposed remedy. The plan must be implemented within 60 days of receipt of this notice. Notify the Division immediately afterward, in writing that the plan has been implemented. Additional measure may be required by the Division.

15A North Carolina Administrative Code 13B .1626(2)(a) states: *Except as provided in (2)(b) of this Paragraph, the owners or operators of all MSWLF units must cover disposed solid waste with six inches of earthen material at the end of each operating day, or at more frequent intervals if necessary, to control disease vectors, fires, odors, blowing litter, and scavenging.*

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Inspection of the facility revealed that waste from the previous operating day was not covered with soil. Therefore, Lincoln County is in violation of 15A NCAC 13B .1626(2)(a).



To achieve compliance, Lincoln County must cover all waste within the working face with a minimum of 6 inches of earthen material at the end of the operating day.

General Permit Condition #6 states: *Operation of this solid waste management facility must be in accordance with the Solid Waste Management Rules, 15A NCAC 13B, Article 9 of the Chapter 130A of the North Carolina General Statutes (NCGS 130A-290, et seq.), the conditions contained in this permit; and the approved plan. Should the approved plan and the rules conflict, the Solid Waste Management Rules shall take precedence unless specifically addressed by permit condition.*

Lincoln County is in violation of the Solid Waste Management Rules, specifically 15A NCAC 13B .1626(4)(a)(ii), 15A NCAC 13B .1626(4)(c)(i) – (iii), and 15A NCAC 13B .1626(2)(a). Therefore, Lincoln County is in violation of General Permit Condition #6.

To achieve compliance, Lincoln County must correct the violations of the Solid Waste Management Rules 15A NCAC 13B specified within this Notice of Violation(s).

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. This inspection was a comprehensive audit and complaint investigation. A complaint was received by the Solid Waste Section that waste was not being covered at the end of the working day.
2. The permit and operations plan were reviewed. These documents were current and available for review.
3. The facility is currently accepting approximately 157 tons of MSW waste and 41 tons of C&D waste each operating day.

Records Review:

4. Ground water monitoring was being performed semi-annually as required.
5. Methane monitoring was being performed quarterly as required.
6. Waste screening forms were reviewed and appeared adequate. Unacceptable waste streams were being noted when observed.
7. Leachate sampling was being performed semi-annually as required.
8. Tire certification forms were reviewed. Please ensure that all portions of the documents are completed. Multiple forms did not show how the tires were collected and the time period during which the tires were collected.
9. Certified Landfill Managers:
 - Nancy Rickard (expires 3/9/13)
 - Mark Bivins (expires 9/20/12)
10. Certified Landfill Operations Specialists:
 - Joseph B. Gates (expires 2/13/12)
 - David Hubbard (expires 3/19/12)
 - William Link (expires 3/16/13)
 - Walter Steve Loughlin (expires 3/19/13)
 - Doug Morrison (expires 4/14/12)

Operations Inspection of the MSW Landfill Unit:

11. Waste was being placed into Phase III of the MSWLF at the time of inspection.
12. No unacceptable waste steams were observed.
13. The working face was small and compact.
14. Windblown waste was well maintained at the time of inspection.
15. Good operational cover was observed on all inactive areas of the MSWLF unit.
16. All access roads were stable and good operational condition.
17. Edge of liner markers and edge of waste markers were being maintained.
18. Inspection of the facility commenced prior to opening. During the inspection, the working face from the previous day's operation was observed with no operational cover. Mrs. Rickard and Mr. Bivins explained that the facility is low on dirt so the working face was not covered in an attempt to conserve soil.

Operations inspection of the C&D Landfill Unit:

19. The working face was less than ½ acre at the time of inspection.
20. No unacceptable waste streams were observed within the working face.
21. Windblown waste was well maintained at the time of inspection.
22. Good operational cover was observed on inactive areas at the time of inspection.
23. Edge of waste markers were being maintained.
24. All access roads were in stable, operational condition at the time of inspection.

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Operations Inspection of the White Goods Area:

- 25. This area was well managed at the time of inspection. All white goods on site were observed in an upright position to ensure the structural integrity of the device prior to removal of Freon.
- 26. The Freon extraction area was well maintained.

Operations Inspection of the Tire Collection Area:

- 27. This area was well managed at the time of inspection. All tires were being collected into covered trailers and were being stored properly.

Operations inspection of the Small Type 1 Composting Unit:

- 28. Observed 5 compost windrows on site at the time of inspection.
- 29. Good access around piles of ground and un-ground material was observed for access by firefighting equipment.
- 30. Pallets and untreated lumber are placed in a separate area for grinding pile. A pile of engineered and painted wood had been segregated out of this material for proper disposal.

Additional Comments:

- 31. Leachate tanks were well managed at the time of inspection and showed 4.5-feet and .4-feet.
- 32. A convenience area is provided near the scale house for public disposal of recyclables such as plastic bottles, plastic bags, aluminum cans, glass, and paper. Three 40-yard roll off containers area also provided for county residents to dispose of municipal waste. Please ensure that all containers used for disposal of municipal waste are maintained in a leak proof manner. Repairs must be made as needed to ensure that no leachate is release from the containers.

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>9/7/10</u> by	X	Electronic Correspondence		US Mail	X	Certified No.: 7009 2250 0004 3265 5301
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cc: Mark Poindexter, Field Operations Branch Supervisor
 Deb Aja, Western District Supervisor

Mr. George A. Wood, County Manager
 115 West Main Street
 Lincolnton, North Carolina 28092

Certified Number: 7009 2250 0004 3265 5295