



# FACILITY COMPLIANCE AUDIT REPORT

## Division of Waste Management Solid Waste Section

**UNIT TYPE:**

Lined MSWLF	<input checked="" type="checkbox"/>	LCID		YW	<input checked="" type="checkbox"/>	Transfer		Compost		SLAS		COUNTY: Cherokee PERMIT NO.: 20-02 FILE TYPE: COMPLIANCE
Closed MSWLF		HHW		White goods	<input checked="" type="checkbox"/>	Incin		T&P	<input checked="" type="checkbox"/>	FIRM		
CDLF		Tire T&P / Collection	<input checked="" type="checkbox"/>	Tire Monofill		Industrial Landfill		DEMO		SDTF		

**Date of Audit:** April 26, 2011**Date of Last Audit:** December 3, 2010**FACILITY NAME AND ADDRESS:**

Cherokee County Landfill  
 10160 US 19/74/129  
 Marble, NC 28905

**GPS COORDINATES:** N: 35.18103 E: -83.90807**FACILITY CONTACT NAME AND PHONE NUMBER:**

Jeff Clark, Cherokee County Solid Waste Director  
 828/837-2621

**FACILITY CONTACT ADDRESS:**

Cherokee County Solid Waste Department  
 c/o Cherokee County Courthouse  
 75 Peachtree Street, Murphy, NC 28906

**AUDIT PARTICIPANTS:**

Jeff Clark, Cherokee County Solid Waste Director  
 Wanda Payne, Solid Waste Officer  
 Troy Harrison, Division of Waste Management/Solid Waste Section

**STATUS OF PERMIT:**

Original Permit to Construct issued July 15, 1997  
 Original Permit to Operate issued January 9, 1998  
 Permit to Construct (Phase 2) issued February 19, 2004  
 Permit Amendment: April 1, 2005  
 Current Active-Permit to Operate issued December 7, 2010  
**Date to submit request for renewal: July 7, 2015**  
**Permit Expiration Date: December 7, 2015**

**PURPOSE OF AUDIT:**

Comprehensive Audit of MSW Landfill  
 Complaint investigation

**NOTICE OF VIOLATION(S):**

None

**STATUS OF PAST NOTED VIOLATIONS:**

N/A

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**AREAS OF CONCERN AND COMMENTS:**

**General**

1. All photographs were taken by Troy Harrison on April 26, 2011.
2. The facility consisted of an MSW landfill, tire collection site, white goods collection and processing facility, metals, glass, yard waste, paper, plastic, cardboard, paper and electronic waste collection areas and an LCID treatment and processing facility,
3. The service area for this facility is Cherokee, Clay, Graham and Swain Counties. At the time of the audit, the facility was only receiving waste from Cherokee County.
4. A copy of the current permit (20-02) and the operations plan (revised 7/27/10) was available at the Cherokee County Solid Waste Department Office located at 10160 US Highway 19, Marble, NC, adjacent to the landfill. Operational records for the facility are maintained at the Cherokee County Solid Waste Office.
5. A Review of training records include, but not limited to the following SWANA certifications for all facility areas of operation:

<b>Name</b>	<b>Certification</b>	<b>Expiration Date</b>
Jeff Clark	MOLO	2/13/13
Wanda Payne	Landfill Operations Basics	3/19/12
Dick Godfrey	Landfill Operations Basics	3/19/12
James Phillips	Landfill Operations Specialist	4/2/13
Jason Roland	Landfill Operations Specialist	4/2/13

6. Groundwater and surface water monitoring forms were reviewed. Sampling is done on a quarterly basis. The last sampling event was on December 22, 2010.
7. Methane detection forms were reviewed. Methane is sampled on a quarterly basis at wells and buildings as required and done at the same time as groundwater monitoring. The results are submitted to the Solid Waste Section Hydrogeologist in Raleigh.
8. Tire collection forms were reviewed. Most of the forms were filled out correctly with the exception of a few from a single hauler.
9. Fire extinguishers were located in several areas on the property.
- 10. Waste screening forms were reviewed. The forms indicated that very few banned were observed. The waste screening is currently being done at the scales. Pages 66-68 of the current Operations Plan (Plan) describes the procedures for waste screening that Cherokee County will follow. In particular, the Plan states on Page 67: "Loads will be inspected on the working face of the landfill". Waste screening must be done at the working face.**
11. All public roads were well maintained. A sign was placed at the entrance to the facility which stated the hours/days of operation, "No liquid or hazardous waste" and the Solid Waste Permit Number.

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Entrance Sign

12. No open burning was observed.
13. A number of dumpsters was located near the office and used by individuals for disposal of smaller amounts of household garbage. This activity is in the operations plan.

**MSW Landfill Unit**

14. The landfill is currently in Phase 2. The facility is also approved for a Phase 3 vertical expansion. A quarterly fill plan was submitted on March 30, 2011, as required by the August 8, 2008 settlement agreement.
15. The working face was observed. Tires were being removed as needed by the compactor operator. A complaint was received about the landfill not covering the waste at the end of the day. Mr. Clark stated that he makes sure that all of the garbage is covered with either dirt or a tarp, as required. A pile of dirt was being kept near the working face in the event of a fire.



Compactor at working Face



Working Face

16. There was a very small amount of windblown debris observed. Mr. Clark stated that this is picked up every day. He also stated he is going to erect a fence to collect windblown debris. It was very windy during audit.
17. **The intermediate cover was observed with moderate erosion. The compactor operator at the working face was also operating a backhoe to repair erosion at different times during the audit. The sedimentation basin on the northeastern edge of the landfill was filled with sediment; this will need to be repaired. A few areas were also observed where waste was showing through the cover. 15A NCAC 13B.1626 (2) requires waste to be covered with six inches of earthen material at the end of each day. The use of a tarp as an alternate daily cover has also been approved. No leachate breakouts were observed. As a reminder, 15A NCAC 13B .1604 (b)(2)(I) requires adequate staffing for proper operation and maintenance.**

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18. No ponding of water on the surface of the landfill was observed.
19. **Phase 1 of the landfill appears to have not been mowed for some time. In addition, woody vegetation saplings were observed growing on this section of the landfill. In order to maintain the cover, this area must be mowed and the woody vegetation removed.**



Close-up of Phase 1



Phase 1

20. Methane and Groundwater wells were observed in good condition, with the exception of a missing cap on one. The wells located in the pasture area on the southern edge of the landfill had barbed wire around them to prevent damage from cattle. **The methane wells did not have any protection.** The grazing of cattle is an approved activity based on document No. 12192. **As a reminder, the wells must be labeled and access maintained.**



Groundwater Monitoring Well



Methane Monitoring Well

21. Leachate is pumped to a collection pond before being automatically pumped to the Town of Andrews Wastewater Treatment Plant. The pond appeared to be in good condition.
22. Edge of waste markers were in place.

**Treatment & Processing (T&P) Area**

22. The facility has a wood grinding T&P area. No banned items were observed. The area consisted only of un-ground material.

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Treatment & Processing Area

**Recycling**

- 23. There were two tire trailers on site, one was full. No tires were observed outside of the trailers.
- 24. A new glass collection area was observed. Glass is separated into clear, brown and green and surrounded by concrete bunkers. The area was on a new concrete pad.



New Glass Recycling Area

- 25. No gasoline or pressurized tanks were observed in the metal recycling area.
- 26. There was a very small yard waste collection area. Conditions for operating this area are contained in the permit and must be followed.
- 27. Electronic goods were being collected. An outside contractor picks up the material for recycling.



Electronic Waste Collection Area



Used Pallets

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- 28. Used pallets were being collected. There were being used for shipping of electronic goods.
- 29. The used oil collection area is located in a building with a concrete floor. The area was well maintained. An outside contractor picks up the used oil for recycling.
- 30. The white goods area was observed. All items were stored in an upright position. Freon is removed by an outside contractor, marked and then moved to the metal pile.



White Goods

- 31. The battery collection area is located on a pallet. All batteries were observed upright.
- 32. The county recycles cardboard, newspaper, aluminum, and plastic. These are bailed and sold.

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

*Troy Harrison*

828-296-4701

Phone: \_\_\_\_\_.

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 Troy Harrison  
 Environmental Senior Specialist  
*Regional Representative*

Mailed on : <u>May 6, 2011</u> by		Hand delivery	<b>X</b>	E-Mail		Certified No. [ ]
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cc: Deb Aja, Western District Supervisor  
 Donald Herndon, Compliance Officer  
 Bill Patrakis, Solid Waste Section