



FACILITY COMPLIANCE AUDIT REPORT
Division of Waste Management
Solid Waste Section

UNIT TYPE:

Lined MSWLF		LCID		YW		Transfer		Compost		SLAS		COUNTY: Macon PERMIT NO.: 57-02 FILE TYPE: COMPLIANCE
Closed MSWLF	X	HHW		White goods		Incin		T&P		FIRM		
CDLF		Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO		SDTF		

Date of Audit: November 18, 2010

Date of Last Audit: January 12, 2009

FACILITY NAME AND ADDRESS:

Macon County MSW Landfill (Highlands)
 1080 Rich Gap Road
 Highlands, NC 28741

GPS COORDINATES: N: 35.01695 E: -83.17491

FACILITY CONTACT NAME AND PHONE NUMBER:

Chris Stahl, Director
 Macon County Solid Waste Dept.
 828-349-2100

FACILITY CONTACT ADDRESS:

109 Sierra Drive
 Franklin, NC 28734

AUDIT PARTICIPANTS:

Troy Harrison, NCDENR Solid Waste Section
 Tommy Keener, Macon County Solid Waste

STATUS OF PERMIT:

Closure Letter issued July 24, 2009

PURPOSE OF AUDIT:

Comprehensive Audit of Closed MSW Landfill

NOTICE OF VIOLATION(S):

N/A

STATUS OF PAST NOTED VIOLATIONS:

N/A

AREAS OF CONCERN AND COMMENTS:

1. All Photographs of this audit were taken by Troy Harrison on November 18, 2010.
2. Landfill operations ceased on January 01, 1993. A Closure Letter was issued on July 24, 1996.
3. Ground and surface water monitoring is done on a semi-annual basis. The last sampling event was during October 2010; however, the results have not yet been submitted to the Solid Waste Section. The most recent results submitted were received on September 22, 2010 for an April 12, 2010 sampling event. The following observations of the groundwater monitoring wells are noted:

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GW Monitoring Well ID Nos. (as per drawing description)	Locked & Secured? (Y/N)	Comments
MW-1	N	Not Locked, needs to be secured, Identified as MW-A, needs to be relabeled.
MW-2	Y	Identified as MW-2A on well label, needs to be relabeled.
MW-4	Y	
MW-4A	Y	
MW-3A	Y	Background Well above C & D LF.
MW-5	N	Not Locked, needs to be secured
MW-5A	N	Not Locked, needs to be secured
MW-5B	Y	
MW-5C	N	Not Locked, needs to be secured
MW-6	Y	
MW-6A	Y	
MW-6C	N	Not Locked, needs to be secured
MW-7	?	Well not observed during audit
MW-8	Y	

Surface water monitoring is done at several locations.

4. Paragraph 1 of the Closure Conditions state: “The owner and/or operator shall take the measures necessary to ensure that the closed site shall continue to meet the design standards for landfill gas found in Rule .0503(2) (a).”

15A NCAC 13B .0503(2)(a) states:

“A site shall meet the following design requirements:

- (a) The concentration of explosive gases generated by the site shall not exceed:
- (i) twenty five percent of the limit for the gases in site structures (excluding gas control or recovery system components); and
 - (ii) the lower explosive limit for the gases at the property boundary.”

According to ARO-SWS records, a landfill gas assessment was done during the spring of 1999. A response from the Solid Waste Section on February 2, 2000 indicated that further monitoring was not required at this time.

5. No evidence of erosion was observed. No leachate breakouts were observed. **Ponding of water on the cap was observed in two areas. These areas and any other areas of ponded water on the landfill cap need to be repaired and contoured to shed water.**

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Ponded water on landfill cap



Ponded water on landfill cap.

6. Vegetation on the cap was well established and the edge of waste was well marked. The landfill was last mowed in October, according to Macon County staff. **Small trees were observed growing on the cap. In order to maintain the integrity of the cap, woody vegetation must be removed. It is requested that this be completed within 60 days of receipt of this audit report.**



Small trees growing on landfill cap



Small marker is edge of waste.

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

Troy Harrison

828-296-4701

Phone: _____.

 Troy Harrison
 Environmental Senior Specialist
Regional Representative

Delivered on : <u>December 6, 2010</u> by		Hand delivery	X	E-Mail		Certified No. []
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cc: Mark Poindexter, Field Operations Branch Supervisor
 Deb Aja, Western District Supervisor
 Donald Herndon, Compliance Officer