



FACILITY COMPLIANCE AUDIT REPORT
Division of Waste Management
Solid Waste Section

UNIT TYPE:											
Lined MSWLF	X	LCID	X	YW		Transfer		Compost	X	SLAS	COUNTY: Macon PERMIT NO.: 57-03 FILE TYPE: COMPLIANCE
Closed MSWLF		HHW		White goods	X	Incin		T&P	X	FIRM	
CDLF		Tire T&P / Collection	X	Tire Monofill		Industrial Landfill		DEMO		SDTF	

Date of Audit: February 15, 2011

Date of Last Audit: March 4, 2010

FACILITY NAME AND ADDRESS:

Macon County Municipal Solid Waste Facility
 1448 Lakeside Drive
 Franklin, NC 28724

GPS COORDINATES: N: 35.20091 E: -83.37684

FACILITY CONTACT NAME AND PHONE NUMBER:

Chris Stahl, Solid Waste Director
 828-349-2100

FACILITY CONTACT ADDRESS:

Chris Stahl, Director
 Macon County Solid Waste Department
 109 Sierra Drive
 Franklin, NC 28734

AUDIT PARTICIPANTS:

Chris Stahl, Macon County
 Troy Harrison, NC Solid Waste Section
 June Cassada, Macon County

STATUS OF PERMIT:

Original Permit to Operate:	January 31, 1991
Permit Renewal:	February 8, 1999
Permit Amendment	March 7, 2000
Permit Amendment	July 20, 2005
Permit Modification	October 26, 2006
Permit Modification	July 12, 2007
Permit Modification	October 12, 2009
Permit Amendment	July 27, 2010
Date to request renewal	January 27, 2015
Expiration Date	July 27, 2015

PURPOSE OF AUDIT:

Comprehensive Audit of MSW Landfill

STATUS OF PAST NOTED VIOLATIONS:

N/A

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AREAS OF CONCERN AND COMMENTS:

General Information

1. All photos were taken by Troy Harrison on February 15, 2011.
2. The facility consisted of an MSW landfill, tire collection site, white goods collection and processing facility, a metals collection site, a treatment and processing facility, a drop-off convenience area for selected recyclables, and a non-active composting facility.
3. The service area for the facility is Macon County. Records indicate that 30396.37 tons of MSW was received at this facility during the 2010 calendar year.
4. A copy of the current permit (57-03) and the operations plan (revised 1/10) was available at the Macon County Solid Waste Department Office located at 109 Sierra Drive adjacent to the landfill. Operational records for the facility are maintained at the Macon 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:

Name	Certification	Expiration Date
Michael (Chris) Stahl	MOLO MSWS	5/25/13 10/22/11
Tommy Keener	MOLO LOS TSO	4/5/13 12/13/12 3/12/13
Wayne Clark	LOS TSO	13/13/12 8/14/12
Wesley Peek	LOS	3/27/13
Sammy Hedden	LOS	10/8/11
Jeff McCord	LOS	10/28/11
Rickie Shepherd	LOS	10/28/11
Tracy Sellino	TSO	8/14/12
Samuel Ramsey	TSO	4/27/13
David Ledbetter	TSO	4/27/13

MOLO – Manager of Landfill Operations
MSWS – Municipal Solid Waste Specialist
LOS – Landfill Operations Specialist
TSO – Transfer Station Operator

6. Methane detection forms were correctly filled out as a percentage of the LEL. The most recent Monitoring was done on 6/30/09. Readings of methane probes at the property boundary were 0%. There were some readings above the LEL on non-boundary wells. Monitoring is done on a quarterly basis. **15A NCAC 13B .1626 (i) requires monitoring for methane in facility structures. This will need to be included in the monitoring plan.**

Wells GP-1 and GP-2 (listed as GP-WP1 and GP-WP2 in 2003) are actually on property owned by the Town of Franklin and used as a property boundary monitoring wells. They are located in the buffer zone of the landfill and wastewater treatment plant. This was approved by the Solid Waste Section in a letter to Macon County on April 29, 2002 by Jim Patterson, Waste Management Specialist.

7. Waste screening forms were reviewed. The facility received 2010.41 tons of MSW during December 2010 and the forms indicated that 52.28 tons of MSW was screened for banned waste, a percentage of 2.6%.
8. The facility had a written contingency plan for handling hazardous waste or a fire event should they occur.
9. The facility samples groundwater on a semi-annual basis. Each groundwater monitoring well was observed.

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The facility had identified wells which need repair and better field identification.

10. Leachate is pumped to a collection pond for pretreatment before being sent to the Town of Franklin Wastewater Treatment Plant located next to the facility. The leachate management plan was reviewed, which included a contingency plan in the event of a temporary failure. The pond appeared to be in good condition.



11. Tire forms were reviewed. All forms were filled out correctly.
12. No open burning was observed at the facility.
13. All public roads were well maintained. Traffic signs were in place to direct the public to appropriate areas of the facility. 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.



MSW Landfill Unit
Phase 1

14. Phase 1 has 2' of final cover which had been seeded, but not the final cap. No significant erosion was observed. **There is one area that was wet and a possible leachate seep. This will need to be repaired immediately.**

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Phase 1 looking West



Continuation of Phase 1 looking West

Phase 2

15. The MSW landfill was operating in Phase 2(active since 1998).
16. The facility is permitted to use a mixture of 50% soil and 50% mulch as an alternate daily cover (ADC). This activity is noted in the operations plan (Section 4.2). Mulch and soil is mixed before application. The facility also uses a fabric tarp as an alternate daily cover as approved in the permit.



Mixture of 50% soil and 50% mulch pile used as ADC



Tarp in background used as ADC

17. The daily and intermediate cover looked very good. No erosion issues were observed. No surface water was observed impounded over waste. No solid waste was observed deposited in water.
18. Fencing was in place to catch wind blown litter. Landfill staff picks up litter every day.



Fencing used to catch litter

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19. The working face was very small during the audit. There was no banned material observed with the exception of incidental amounts.



Working Face



Working Face

MSW Treatment and Processing Facility

20. The MSW Treatment and Processing (T & P) Facility is located in a covered building and was observed in operation. This facility is permitted to receive all waste allowed for disposal in the MSW Landfill and is used by the general public. Waste is placed on the floor and recyclables are removed by Staff. Material that cannot be recycled is loaded into a semi-trailer and transported to the MSW Landfill. The area was very clean and well staffed. There are drains in the floor to catch any incidental liquids (leachate) and connects to the Franklin wastewater treatment plant.



Looking toward entrance of MSW T&P Facility



MSW T&P working area



Cardboard and Metal Recycling



Electronics Recycling

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21. Separate areas are designated for clean wood, TVs, computers, , aluminum, glass, plastics, cardboard and scrap metal inside the building.
22. Used propane tanks and other gas tanks (not gasoline) are stored outside the T & P building.



Propane Tank Collection Area



Scrap Tire Collection Trailers

Scrap Tire Collection Area

23. There were 3 trailers on site. Two trailers were empty and the third one was about 1/3 full. Tires were being loaded into a trailer at the time of the audit. All tires not intended for use by the facility were in the trailers.

Wood Grinding Treatment and Processing Facility

24. This area is used to generate mulch for the alternate daily cover. Material was in a pile waiting for grinding consisted primarily of landclearing debris, yard trash and pallets. This material is not available to the public. A very small amount of manufactured wood was observed which will be removed. A customer was observed



Wood Grinding T & P area looking West



Wood Grinding area looking South (MSW landfill in background)

Recycling Operation

25. A recycling operation is part of the approved operations plan.
26. Macon County accepts materials dropped off at the facility and from collections sites located through out the county. Recycled materials are baled and sent to appropriate recycling companies.
27. There were separate areas for metals, aluminum, steel cans, clothes, cardboard, paper and plastics. Glass was being separated into brown, clear and green.

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28. The White Goods Area is located in the recycling area. Freon is removed by the facility.



White Goods



Metal Recycling Area

Other Waste Recycling Area

29. Used oil, household grease, batteries, anti-freeze and used oil filters were being accepted. With the exception of household grease, these were located in a shed.



Used oil/oil filters, anti-freeze and battery collection area



Used household grease recycling area

Type 3 Composting Facility

30. This area is currently not in use with no plans to operate at this time. A Notification to the Solid Waste Section is required before reactivation.

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>February 23, 2010</u> by		Hand delivery	<input checked="" type="checkbox"/>	E-Mail		Certified No. []
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C: Deb Aja, Western District Supervisor
 Donald Herndon, Compliance Officer