



NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary

July 20, 2005

Chris Stahl, Director
Macon County Solid Waste Management Department
109 Sierra Drive
Franklin, North Carolina 28734

Re: Macon County Municipal Solid Waste Landfill, Permit to Operate, Phase 2 of Cell 1
Macon County, Permit No. 57-03

Mr. Stahl:

Enclosed please find a Permit to Operate for the Macon County MSW Landfill Facility. This permit approves the operation for Phase 2 of Cell 1 of the facility along with the Bale Facility and the Compost Facility. This Permit to Operate also replaces the previous Permit to Operate issued for the original MSW Landfill, Phase 1 of Cell 1, the Bale Facility, and the Compost Facility.

This replacement permit does not require recordation. The permit condition requiring recordation has been complied with via the original permit.

Please note the specific conditions regarding the MSW facility under Part II of this permit. Also, please coordinate an operations meeting with Jim Patterson of the Asheville Regional Office to go over operational issues related to Phase 2 of Cell 1.

If you have any questions, please feel free to contact me at 336-771-4608 ext. 337 or Jim Patterson in the Asheville Regional Office at 828-296-4700.

Sincerely,



Tim Jewett
Western Area Engineer

copy: James C. Coffey - DWM
Jim Barber - DWM
Brent Rockett - DWM
Jim Patterson - DWM
Jennifer Ballard, PE- McGill Associates
Raleigh Central File: Buncombe County Permit No.11-07

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone 919-508-8400 \ FAX 919-733-4810 \ Internet <http://wastenotnc.org>



North Carolina Department of Environment and Natural Resources

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FACILITY PERMIT NO: 57-03

Part 2-Permit to Operate

Date of Original Issue: January 31, 1991

Permit Renewal Date: February 8, 1999

Permit Amendment Date: March 7, 2000

Permit Modification Date: July 20, 2005 (Next 5 year phase)

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STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT,
AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT
P.O. BOX 27687 RALEIGH, NC 27611

**MUNICIPAL SOLID WASTE LANDFILL
FACILITY PERMIT**

COUNTY OF MACON
is hereby issued a PERMIT to OPERATE a
MUNICIPAL SOLID WASTE LANDFILL FACILITY
AND PHASE 2, CELL 1, BALEFILL AND COMPOST FACILITY

located on Lakeview Drive, Franklin, Macon County, North Carolina in accordance with Article 9, Chapter 130A, of the General Statutes of North Carolina and all rules promulgated thereunder and subject to the conditions set forth in this permit. The facility is located and described by the legal description of the site or the property map contained within the approved application.

Donald J. Barber, Supervisor
Permitting Branch
Solid Waste Section

ATTACHMENT 3

Approved Documents

PART I: GENERAL FACILITY CONDITIONS

PART II: MUNICIPAL SOLID WASTE LANDFILL CONDITIONS

1. *Construction Quality Assurance Report. Volume 1 of 3. Subgrade, Structural Fill and Compacted Clay Liner. Macon County Landfill, Phase II Cell 1, Subcell 1. Macon County, North Carolina. BLE Project No. J97-1101-01. Prepared by: Bunnell-Lammons Engineering, Inc. Greenville, SC. August 21, 1998.*
2. *Construction Quality Assurance Report. Volume 2 of 3. Flexible Membrane Liner. Macon County Landfill, Phase II Cell 1, Subcell 1. Macon County, North Carolina. BLE Project No. J97-1101-01. Prepared by: Bunnell-Lammons Engineering, Inc. Greenville, SC. October 22, 1998.*
3. *Construction Quality Assurance Report. Volume 3 of 3. Leachate Collection System and Protective Cover. Macon County Landfill, Phase II Cell 1, Subcell 1. Macon County, North Carolina. BLE Project No. J97-1101-01. Prepared by: Bunnell-Lammons Engineering, Inc. Greenville, SC. December 30, 1998.*
4. *Construction Quality Assurance Report. Macon County Landfill, Phase II Cell 1, Stage 2 (Subcells 2, 3, and 4). Macon County, North Carolina. BLE Project No. J97-1101-01. Prepared by: Bunnell-Lammons Engineering, Inc. Greenville, SC. Volume 1 Prepared March 16, 1999 Volume 2- October 14, 1998. Volume 3- August 5. 1999.*
5. Revised Operations Plan (for alternate daily cover use) Revised by McGill Associates, Asheville, NC. February 10, 2000.
6. *Permit Renewal Application for Macon County MSW Landfill Facility, Macon County, North Carolina, Permit Number 57-03. Prepared by McGill Associates, P.A., Asheville, North Carolina - December 31, 2003.*
7. Letter dated June 7, 2005 from McGill Associates, P.A., Asheville, North Carolina including Figures 1 and 2 showing existing fill grades at the time of permit renewal application and proposed intermediate grades for this five-year period.
8. Letter dated July 8, 2005 from McGill Associates, P.A., Asheville, North Carolina including volume calculations for the next five year operation of Phase 2, Cell 1.

PART III: CONSTRUCTION AND DEMOLITION LANDFILL CONDITIONS

(NOT APPLICABLE)

PART IV: LAND CLEARING AND INERT DEBRIS LANDFILL CONDITIONS

(NOT APPLICABLE)

PART V: YARD WASTE CONDITIONS

(NOT APPLICABLE)

FACILITY PERMIT NO: 57-03

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PART VI: MISCELLANEOUS TREATMENT AND PROCESSING FACILITIES CONDITIONS

1. Operation plan for Bale facility, contained in the permit to construct application
2. Operations Plan for Macon Compost facility.
3. Revised Operations Plan for Bale Facility, Compost Facility, and Yard Waste Facility, contained in the permit renewal application dated December 31, 2003.

ATTACHMENT 4

Conditions of Permit to Operate

PART I: GENERAL FACILITY CONDITIONS

1. This permit shall be reviewed on July 20, 2010 pursuant to 15A NCAC 13B.0201(e). No later than January 20, 2010 (180 days prior to the review date), Macon County shall submit to the Solid Waste Section an amendment to the permit prepared in accordance with 15A NCAC 13B .1603(a)(2) or a permit modification to the permit prepared in accordance with 15A NCAC 13B .1603(a)(3), as applicable.
2. In the event of conflicts between this Permit to Operate and previously issued conditions, the conditions of this Permit to Operate shall supersede previously issued conditions.
3. The solid waste management units within this facility shall conform to all operating procedures described in the approved plans, 15A NCAC 13B, and the conditions specified herein.
4. Additional conditions and revision of the approved documents or changes during the operation of the landfill require approval by the North Carolina Solid Waste Section.
5. On or before August 1 of each year, Macon County shall report the amount of waste received (in tons) at this facility and disposed of in the landfill units to the Solid Waste Section, on forms prescribed by the Section. The reporting period shall be for the previous year, beginning July 1 and ending June 30. This report shall include the following information:
 - a. The amount of waste received and disposed of in tons, compiled on a monthly basis by county, city, or transfer station of origin and by specific waste type if diverted to a specific unit within the permitted facility.
 - b. A physical measurement of the volume of airspace used in the MSW cells shall be performed during the second quarter of the calendar year. The volume in cubic yards and date of the measurement shall be included in the report.
 - c. The amount of waste, in tons, from scale records, disposed in the MSW cells since January 31, 1991 through the date of the annual volume determination.

- d. The completed report shall be forwarded to the Regional Waste Management Specialist for the facility. A copy of the completed report shall be forwarded to the County Manager of each county from which waste was received.
6. Ground water quality at this facility is subject to the "Classifications and Water Quality Standards Applicable To The Groundwater of North Carolina", 15A NCAC 2L. This includes, but is not limited to, provisions for detection monitoring, assessment, and corrective action.

**PART II:
MUNICIPAL LANDFILL UNIT SPECIFIC CONDITIONS**

GENERAL CONDITIONS

1. This permit approves the continued operation of Phase 1 and Phase 2, Cell1, of the municipal solid waste landfill unit as well as the on-site environmental management and protection facilities as described in the approved plans.
2. This permit is for operational approval of the next or second five years of permitted disposal capacity, totaling approximately 670,740 cubic yards, consistent with the final contours as shown on sheet 10 of Document 2, Part II, Attachment 1 and revised by Attachment 3, Part II, Documents 7 and 8. This capacity is based on an average annual disposal rate of approximately 39,600 tons (approximately 143 tons per day based on 280 operating days per year) facility total as set forth in Part II, Document 1, Attachment 1 and revised by Attachment 3, Part II, Documents 8 using disposal records.

MONITORING AND REPORTING

3. Ground water monitoring at this unit shall be as prescribed by the appropriate requirements of 15A NCAC 13B .1630-.1637 and the approved monitoring plan.
4. A readily accessible unobstructed path shall be cleared and maintained so that four-wheel drive vehicles may access monitoring well locations at all times.
5. A field log book which details all development, sampling, repair, and all other pertinent activities associated with each monitoring well and all sampling activities associated with each surface water and leachate sampling location shall be kept as part of the permanent facility record.
6. Records of all ground-water, surface water and leachate analytical data shall be kept as part of the permanent facility record.

7. Ground water monitoring wells and surface water sampling locations must be sampled for Appendix I constituents at least semi-annually according to the specifications outlined in the approved water quality monitoring plan and the current policies and guidelines of the Section in effect at the time of sampling.
8. Reports of the analytical data for each water quality sampling event shall be submitted to the Section within 60 days of the respective sampling event. Analytical data shall be submitted in a manner prescribed by the Section.
9. The four independent samples which comprise the initial baseline sampling event shall be collected from each ground water monitoring well and the report shall be submitted to the Section within six months after issuance of the Permit to Operate.
10. Untreated leachate shall be sampled and analyzed at least semi-annually concurrently with the ground and surface water sampling. The leachate shall be analyzed for all Appendix I constituents, pH, specific conductance, BOD, COD, nitrates, sulfates, and phosphates. Test results shall be submitted to the Section along with ground and surface water test results. In the event leachate is recirculated, additional leachate sampling may be required.

OPERATIONAL CONDITIONS

11. The landfill unit shall conform to all operating requirements described in the approved plans, 15A NCAC 13B .1626, and the conditions specified herein.
12. The use of polyethylene film and a soil/ chipped wood mixture, as alternative daily covers is approved. The use of any other alternative daily cover requires approval, prior to implementation, by the Solid Waste Section. Requests for alternative daily cover approval must include a comprehensive use and demonstration of the effectiveness plan developed according to Section guidelines and consistent with the approved plan. Plans which are approved by the Section will be incorporated into, and made a part of, the approved documents found in Attachment 3.
13. The use of leachate recirculation as a leachate management tool requires approval, by the Solid Waste Section, prior to implementation. Requests for leachate recirculation approval must include a comprehensive management plan developed according to Section guidelines and which is consistent with the approved operation plan. Plans which are approved by the Section will be incorporated into, and made a part of, the approved documents found in Attachment 3.
14. The landfill facility is permitted to co-dispose of wastewater treatment sludge generated within the facility's approved service area, and subject to the terms and procedures of the approved plan.

15. Closure or partial closure of any MSWLF unit shall be in accordance with the Closure Plans described in the approved plans and 15A NCAC 13B .1629. Final Closure Plans shall be submitted to the Division at least 90 days prior to implementation. Closure and Post-closure plans, including financial instruments shall be updated annually pursuant to 15A NCAC 13 B .1628.

PART III:

CONSTRUCTION AND DEMOLITION DEBRIS UNIT SPECIFIC CONDITIONS

(NOT APPLICABLE)

PART IV:

LAND CLEARING AND INERT DEBRIS UNIT SPECIFIC CONDITIONS

(NOT APPLICABLE)

PART V:

YARD WASTE UNIT SPECIFIC CONDITIONS

(NOT APPLICABLE)

PART VI:

MISCELLANEOUS TREATMENT AND PROCESSING UNIT SPECIFIC CONDITIONS (Specify Unit Type).

BALE FACILITY

1. Operation of the bale facility will be pursuant to the operation plan provided in Document 1, Attachment 1, Part II.
2. Records will be kept of the amount of waste baled and the amount of bypass handled by the baling facility.

COMPOST FACILITY

3. This facility shall be operated in accordance of Rule .1406 of the Solid Waste Compost Rules, and the permit application.
4. All compost produced at the facility shall meet the requirements of Rule .1407 of the Solid Waste Compost Rules, and the permit application.
5. Testing and reporting shall be conducted in accordance with Rule .1408 and permit application. An annual report of the facility activities for the fiscal year July1-June 30 shall be submitted to the Division by August 1 of each year.
6. Operation and maintenance of this facility shall be in accordance with the Municipal Solid Waste Compost rules and the Operations and Maintenance Manual submitted with the permit application.
7. Compost shall not be distributed prior to approval by the Division of Waste Management, in accordance with Rule .1407(6)(b).
8. Groundwater monitoring wells may be required if there is indication of the potential for groundwater contamination.
9. Changes in ownership of the compost facility, increase in compost facility capacity, or composting materials not addressed in the application shall require a permit modification.