



**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

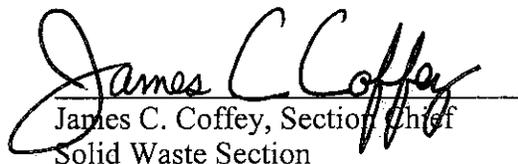
FACILITY PERMIT NO: 11-07  
MSW Phase 3 (Cell 6) Amendment: October 12, 2005  
Permit History - refer to page 2  
Page 1

**MUNICIPAL SOLID WASTE LANDFILL  
FACILITY PERMIT**

**BUNCOMBE COUNTY**

is hereby issued a PERMIT to OPERATE a  
MUNICIPAL SOLID WASTE LANDFILL FACILITY AND  
DISPOSAL CELLS 1 through PHASE 1 of CELL 6

located on Panther Branch Road, North Carolina State Road 1745, Buncombe County, 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.

  
James C. Coffey, Section Chief  
Solid Waste Section

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

## PERMIT HISTORY

FACILITY PERMIT NO: 11-07

Part 2 - Permit to Operate

Date of Original Issue - Cell 2:

November 15, 1996

MSW Cell 1:

January 9, 1998

C&D Phase 1:

January 21, 1998

C&D Phase 2:

March 5, 1999

Compost:

*date to be determined*

MSW Cell 3:

January 27, 2000

Household Hazardous Waste Collection:

March 9, 2001

C&D Phase 1 Expansion:

November 14, 2002

MSW Cells 4 & 5:

November 14, 2002

XL Leachate Recirculation Modification:

March 27, 2003.

MSW Phase 3 (Phase 1 of Cell 6):

October 12, 2005

## ATTACHMENT 3

### Approved Documents

#### PART I: GENERAL FACILITY

1. *Buncombe County Solid Waste Management Facility, Permit to Construct Application, Volume 1 of 2, dated March, 1995, as revised.*
2. *Buncombe County Solid Waste Management Facility, Permit to Construct Application, Volume 2 of 2, dated March, 1995, as revised.*
3. *Plans entitled Engineering Plan, Buncombe County Solid Waste Management Facility, dated March, 1995, sheets EP-1 through EP-6, D-1 through D-4, as revised.*
4. *Plans entitled Facility Plan, Buncombe County Solid Waste Management Facility, dated March, 1995, sheets SD-1, SD-2, LC-1 through LC-4, LO-1 through LO-9, as revised.*
5. *Plans entitled Construction Plan, Cells 1 through 3, Buncombe County Solid Waste Management Facility, dated September, 1995, sheets C-1 through C-9, D-1 through D-4, E-1 and E-2, latest revision.*
6. *Response to Technical Review Design Hydrogeologic Report/Water Quality Monitoring Report, Buncombe County Solid Waste Management Facility, dated June, 1995.*
7. *Response to Technical Review Design Hydrogeologic Report/Water Quality Monitoring Report, Buncombe County Solid Waste Management Facility, dated August, 1995.*
8. *Modification to Permit, Construction Plans - Cells 1 through 3, Proposed Buncombe County Solid Waste Management Facility, dated October 6, 1995.*
9. *Camp Dresser & McKee letter, dated November 2, 1995, subject: Alternate Monitoring System.*
10. *Buncombe County Solid Waste Management Facility, Permit to Construct Application, Cell 3 Permit Modifications, dated October 1998, as revised, prepared by Camp Dresser & McKee.*
11. *Buncombe County Subtitle D Landfill Cell No. 3 Point-of Compliance Equivalence evaluation for Proposed Alternative Base Liner, dated June 10, 1998, as revised, prepared by Camp Dresser & McKee.*

**PART II: MUNICIPAL SOLID WASTE LANDFILL**

1. *Cell 2 and Leachate Pond, Buncombe County Solid Waste Management Facility, Construction Quality Assurance Report, Volume 1 of 2*, dated November, 1996, prepared by Camp Dresser & McKee.
2. *Cell 2 and Leachate Pond, Buncombe County Solid Waste Management Facility, Construction Quality Assurance Report, Volume 2 of 2*, dated November, 1996, prepared by Camp Dresser & McKee.
3. *Cell 1, Buncombe County Solid Waste Management Facility, Construction Quality Assurance Report, Volume 1*, dated October, 1997, prepared by Camp Dresser & McKee.
4. *Cell 1, Buncombe County Solid Waste Management Facility, Construction Quality Assurance Report, Volume 2*, dated October, 1997, prepared by Camp Dresser & McKee.
5. *Cell 3, Buncombe County Solid Waste Management Facility, Construction Quality Assurance Report*, dated August, 1999, prepared by Camp Dresser & McKee.
6. *Buncombe County Solid Waste Management Facility, Permit Amendment Application, Volume 1 of 2*, dated November, 1999, prepared by Camp Dresser & McKee.
7. *Buncombe County Solid Waste Management Facility, Permit Amendment Application, Volume 2 of 2*, dated November, 1999, prepared by Camp Dresser & McKee.
8. Plans entitled *Engineering Plan, Buncombe County Solid Waste Management Facility, Permit Amendment Application - Phase 2 (Cells 4 and 5)*, dated November, 1999, prepared by Camp Dresser & McKee.
9. *Buncombe County Solid Waste Management Facility, Permit Amendment Application, Cells 4 and 5 - Design Hydrogeologic Report*, revised February 2000, prepared by Camp Dresser & McKee.
10. *Buncombe County Solid Waste Management Facility, Permit Amendment Application, Cells 4 and 5 - Water Quality Monitoring Plan*, revised February 2000, prepared by Camp Dresser & McKee.
11. *Supplement Information for Permit Amendment Application - Phase II (Cells 4-5), Design Hydrogeologic Report, Buncombe County Solid Waste Management Facility, Permit No. 11-07*, dated May 18, 2000, prepared by Camp Dresser & McKee.

12. *Response To Comments, Permit Amendment Application - Cells 4-5, Design Hydrogeologic Report, Buncombe County Solid Waste Management Facility, Permit No. 11-07, dated May 23, 2000, prepared by Camp Dresser & McKee.*
13. *Buncombe County, North Carolina, Solid Waste Management Facility, Cells 4 and 5, Construction Quality Assurance Report, Volume 1, dated December 2001, Prepared by Camp Dresser and McKee.*
14. *Buncombe County, North Carolina, Solid Waste Management Facility, Cells 4 and 5, Construction Quality Assurance Report, Volume 2, dated December 2001, Prepared by Camp Dresser and McKee.*
15. *Buncombe County, North Carolina, Solid Waste Management Facility, Cells 4 and 5, Construction Quality Assurance Report, Volume 3, dated December 2001, Prepared by Camp Dresser and McKee.*
16. *Permit Application for the US EPA Project XL Bioreactor at the Buncombe County Solid Waste Management Facility, dated December 2002, prepared by Camp Dresser & McKee.*
17. *Plans entitled US EPA Project XL Bioreactor Plan Permit Application, Buncombe County Solid Waste Management Facility, dated December 2002, prepared by Camp Dresser & McKee.*
18. *Buncombe County Solid Waste Management Facility, Permit to Construction Application, Volume 1 of 2, dated December 2004, prepared by Camp Dresser & McKee.*
19. *Buncombe County Solid Waste Management Facility, Permit to Construction Application, Volume 2 of 2, dated December 2004, prepared by Camp Dresser & McKee.*
20. *Plans entitled Engineering Plan - Phase 3 (Cell 6), Buncombe County Solid Waste Management Facility, dated December 2004, prepared by Camp Dresser & McKee.*
21. *Response To Comments, Application for Permit to Construct, Phase III, Buncombe County Landfill, Design Hydrogeologic Study - Preliminary Review Comments, Permit No. 11-07, dated January 7, 2005, prepared by Camp Dresser & McKee.*
22. *Response To Comments, Application for Permit to Construct, Phase III, Buncombe County Landfill, Design Hydrogeologic Study - Additional Review Comments, Permit No. 11-07, dated January 18, 2005, prepared by Camp Dresser & McKee.*

23. *Buncombe County North Carolina, Buncombe County Solid Waste Management Facility, Permit to Construct Application for Phase III, CDM Project No. 6447-45139, Response to Comments, dated March 9, 2005, prepared by Camp Dresser & McKee.*
24. *Buncombe County North Carolina, Buncombe County Solid Waste Management Facility, Permit to Construct Application for Phase III, CDM Project No. 6447-45139, Operations Plan Response to Comments, dated April 25, 2005, prepared by Camp Dresser & McKee.*
25. *Buncombe County, North Carolina, Solid Waste Management Facility, Phase 1 of Cell 6, Construction Quality Assurance Report, Volume 1, dated June 24, 2005, Prepared by Camp Dresser and McKee.*
26. *Buncombe County, North Carolina, Solid Waste Management Facility, Phase 1 of Cell 6, Construction Quality Assurance Report, Volume 2, dated June 24, 2005, Prepared by Camp Dresser and McKee.*
27. *Buncombe County, North Carolina, Solid Waste Management Facility, Phase 1 of Cell 6, Construction Quality Assurance Report, Additional Documentation, dated July 25, 2005, Prepared by Camp Dresser and McKee.*

**PART III: CONSTRUCTION AND DEMOLITION LANDFILL**

1. *Buncombe County Solid Waste Management Facility, Construction and Demolition Debris Landfill Permit Application, dated May, 1997, as revised.*
2. Letter from Camp Dresser & McKee to Mr. Timothy Jewett, Solid Waste Section, Subject: Buncombe County - C&D Landfill Permit, dated December 31, 1997.
3. *Buncombe County landfill Geologic Mapping Letter Report, prepared by Gram, Inc., dated January 11, 1999.*
4. Letter with reference *Additional Geologic Evaluation, Buncombe County Construction and Demolition Landfill*, prepared by CDM dated January 27, 1999.
5. *Proposed Phase 1 Construction and Demolition Landfill Expansion, Buncombe County Solid Waste Management Facility, Permit # 11-07, prepared by CDM dated March 18, 2002.*
6. *Construction Certification, Phase 1 Construction and Demolition Landfill Expansion, Buncombe County Solid Waste Management Facility, Permit # 11-07, dated August 8, 2002, prepared by Camp Dresser & McKee.*

**PART IV: LAND CLEARING AND INERT DEBRIS LANDFILL**

**PART V: COMPOSTING**

1. *Solid Waste Compost Facility Application for Permit*, dated July 21, 1998, prepared by Camp Dresser & McKee.
2. *Reserved for Compost CQA documentation*

**PART VI: MISCELLANEOUS FACILITIES**

**HOUSEHOLD HAZARDOUS WASTE PERMANENT COLLECTION FACILITY**

1. *Permit Application (operation plan, contingency plan and closure plan) for Buncombe County Household Hazardous Waste Permanent Collection Facility*, submitted by Buncombe County on October 9, 2000 and amended through February, 2001.

## ATTACHMENT 4

### Conditions of Permit to Operate

#### PART I: GENERAL FACILITY CONDITIONS

1. This permit shall be reviewed on October 12, 2010 pursuant to 15A NCAC 13B .0201(e). No later than March 12, 2011, Buncombe County shall submit to the Solid Waste Section for review an amendment to the permit prepared in accordance with 15A NCAC 13B .1603(a)(2), or a permit modification 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, Buncombe 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 on June 30. This report shall include the following information:
  - a. The amount of waste received and land filled in tons, compiled on a monthly basis by county or transfer station of origin and by specific waste type if diverted to a specific unit within the permitted facility.
  - b. A survey of volume utilized in the MSW cells shall be performed during the second quarter of the calendar year. The date and volume, in cubic yards, shall be included in the report.
  - c. The amount of waste, in tons from scale records, disposed in MSW cells since November 15, 1996 through the date of the annual volume survey.
  - 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**

7. This permit approves the continued operation of Phases 1 and 2, Cells 1-5 and operation of Phase 1 of Cell 6 of the municipal solid waste landfill unit as well as the on-site environmental management and protection facilities as described in the approved plans.
8. This permit is for operational approval of a five year permitted disposal capacity of approximately 3,255,999 cubic yards, consistent with the configuration as shown on Sheet EP-3 and contours as shown on Sheet EP-5 of Document 20, Attachment 3, Part II in the approved plans. The landfill will be constructed in five additional phases, part 2 of Phase 3 (Phase 2 of Cell 6) and Phases 4-7. Construction of cells within each phase shall be in accordance with the Division approved plans. This permit to operate does not approve operation of phases or cells outside of Cell 6, Phase 1.
9. This facility is permitted for an average annual disposal rate of approximately 170,000 tons. This tonnage corresponds to an approximate disposal rate of 545 tons per day based on 312 operating days per year, set forth in Part II, Document 18, Section 1. The landfill is permitted to receive solid waste generated by and in Buncombe County, consistent with local government waste management plans(s), with local government approval and contract, the franchise agreement, and as defined in G.S. 130A-290(a)(35), except where prohibited by the North Carolina General Statutes Article 9 of Chapter 130A, and the rules adopted by the Commission for Health Services.

### **MONITORING AND REPORTING**

10. 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.
11. A readily accessible unobstructed path shall be cleared and maintained so that four-wheel drive vehicles may access monitoring well locations at all times.
12. 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.

13. Records of all ground-water, surface water and leachate analytical data shall be kept as part of the permanent facility record.
14. 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.
15. 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.
16. 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.
17. 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 and COD, phosphate, nitrate, and sulfate. 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**

18. The landfill unit shall conform to all operating requirements described in the approved plans, 15A NCAC 13B .1626, and the conditions specified herein.
19. The use of 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 for 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.
20. Leachate recirculation system construction and operation is approved as per the approved documents. Leachate recirculation system on going construction quality assurance (CQA) documentation shall be maintained by the owner / operator at the facility. Monitoring information gathered in accordance with the leachate recirculation monitoring plan shall be submitted to the Division. Additional moisture (water) source shall be the French Broad River. Additional moisture shall be added to the leachate lagoon in accordance with Section 3 of the approved application.

21. The MSWLF unit is permitted to co-dispose of wastewater treatment sludges generated within the facility's approved service area, and subject to the terms and procedures of the approved plan.
22. 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**

23. Phase 1 of the C&D unit is approved for a disposal capacity consistent with the approved contours as shown on the approved plans.
24. Operation of the C&D unit shall be in accordance with NCAC 13B .0505, the approved plans, and the following specific conditions:
  - a. The C&D unit is permitted to receive the following waste types:
    - i. Land Clearing Debris as defined in G.S. §130A-290, specifically, solid waste which is generated solely from land clearing activities, such as stumps, trees, etcetera;
    - ii. Inert Debris defined as solid waste which consists solely of material that is virtually inert, such as brick, concrete, rock, and clean soil;
    - iii. Asphalt in accordance with G.S. §130A-294(m); and
    - iv. Construction and Demolition Debris defined as solid waste resulting solely from construction, remodeling, repair, or demolition operations on pavement, buildings, and other structures.
  - b. Waste shall be covered with six-inches of suitable cover at least once per week, or when the active working area reaches one-half acre in size, or more often as necessitated by the nature of the waste, so as to prevent the site from becoming a visual nuisance and to prevent fire, windblown materials, vectors, or water infiltration. Areas which have not received additional waste for twelve months or more, but where final elevations have not been reached, shall be covered with one-foot of soil cover.

- c. Ground water and surface water sampling and analysis shall conform to the specifications found in the approved plans.
25. Closure Requirements - The C&D unit shall be closed in accordance with the approved plans and the requirements of the Division of Waste Management at the time of closure. A final closure plan shall be submitted for review at least 90 days prior to closure of any phase of the C&D landfill unit.

#### **PART IV: LAND CLEARING AND INERT DEBRIS UNIT SPECIFIC CONDITIONS**

#### **PART V: COMPOST UNIT SPECIFIC CONDITIONS**

*Reserved for Compost Conditions - See Approved Documents*

#### **PART VI: MISCELLANEOUS UNIT SPECIFIC CONDITIONS**

### **HOUSEHOLD HAZARDOUS WASTE PERMANENT COLLECTION FACILITY**

#### **OPERATION**

26. The permit is for the construction and operation of a Permanent Household Hazardous Waste Collection Facility. Revisions to the approved plans shall be approved by the North Carolina Division of Waste Management (DWM), Solid Waste Section.
27. This permanent household hazardous waste collection facility is permitted to receive household hazardous waste (HHW) from homeowners and conditionally exempt small quantity generators. Unacceptable HHW that shall not be collected at this facility includes radioactive waste, explosives, and infectious waste.
28. Document 1 of Part VI, Attachment 3, "Approved Documents", is included in the approved plan.
29. This facility shall conform to all operating procedures in the approved plan, 15A NCAC 13B .0400, and the Guidance Document for HHW Facilities.
30. Household hazardous waste permanent ID No. NCPH01101011 shall be used for shipment of collected materials off-site.

#### **REPORTING REQUIREMENTS**

31. Buncombe County shall maintain records for the amount of HHW received at the facility and the amounts shipped off-site for recycling, reuse, and / or disposal. Records must be

compiled on a monthly basis and maintained at the facility for inspection upon request by Solid Waste Section personnel.

32. On or before August 1 of each year, Buncombe County shall report to the Solid Waste Section, the amount of HHW waste (in pounds) received at this facility and the amounts shipped off-site for recycling, reuse, and / or disposal. The reporting period shall be for the previous year, beginning July and ending June 30.
33. Copies of this permit and copies of the approved plan shall be forwarded to the local fire department, local hospitals, and other appropriate emergency agencies.