



Facility Permit No: 9606-MSWLF  
Permit to Construct and Operate  
Wayne County MSW Landfill  
June 13, 2011  
Doc ID: 13553  
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North Carolina Department of Environment and Natural Resources  
Division of Waste Management

Beverly Eaves Perdue  
Governor

Dexter R. Matthews  
Director

Dee Freeman  
Secretary

STATE OF NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
DIVISION OF WASTE MANAGEMENT  
SOLID WASTE SECTION

**MUNICIPAL SOLID WASTE LANDFILL FACILITY**  
**Permit No. 96-06-MSWLF**

WAYNE COUNTY  
is hereby issued a

**PERMIT TO CONSTRUCT**

PHASE 3 LATERAL EXPANSION  
And

**PERMIT TO OPERATE**

PHASES 1 AND 2

Located on NCSR 1129, southwest of Goldsboro, Wayne 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 legal description of the site is identified on the deeds recorded for this property listed in Attachment No. 1 of this permit.

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Edward F. Mussler, III, P.E.,  
Permitting Branch Supervisor  
Solid Waste Section

## ATTACHMENT 1

### PART I: PERMITTING HISTORY

Permit Type	Date Issued
Permit to Construct (PTC) – Phase 1, Original Issuance	October 30, 1997
Permit to Operate (PTO) – Phase 1	May 17, 1999
Permit Amendment, PTC – Phase 2	February 3, 2004
Permit Amendment, PTO - Phase 2, Cell A	June 22, 2004
Permit Amendment, PTO - Phase 2, Cell B	September 22, 2004
Permit Amendment, PTC – Phase 3 & PTO Phases 1 & 2	June 13, 2011

### PART II: LIST OF DOCUMENTS FOR THE APPROVED PLAN

#### MUNICIPAL SOLID WASTE LANDFILL

1. *MSWLF Facility Site Study, Wayne County*, dated May 1996 and prepared for Wayne County by Municipal Engineering Services Company P.A. (MESCO), Garner, North Carolina.
2. *MSWLF Facility Permit to Construct Application, Phase 1, Wayne County Subtitle D Lined Landfill*, dated April 1997 and prepared for Wayne County by MESCO, Garner, North Carolina.
3. *Design Hydrogeologic Study, Phase 1, Wayne County Subtitle D Lined Landfill*, dated April 1997 and prepared for Wayne County by MESCO, Garner, North Carolina.
4. *Construction Quality Assurance Report (CQA Report), Phase 1, Cell 1, Wayne County MSWLF*, prepared by MESCO, dated May 1998.
5. *CQA Report, Phase 1, Cell 2, Wayne County MSWLF*, prepared by MESCO, dated April 1999.
6. *Design Hydrogeologic Study, prepared for Wayne County Landfill Phase 2, Dudley, North Carolina*, prepared by MESCO, Garner, North Carolina, dated January 2003 and revised through February 2, 2004.
7. *MSWLF Facility Permit to Construct Application, Phase 2, Wayne County, Dudley*,

*North Carolina*, prepared for Wayne County by MESCO, Garner, North Carolina and dated March 2003 and revised through February 2004.

8. *CQA Report, Municipal Solid Waste Landfill Facility, Phase 2, Wayne County*, prepared by MESCO, received June 8, 2004 and amended and revised through September 14, 2004.
9. Addendum to Sections 2 and 4 of CQA, Municipal Solid Waste Landfill Facility, Phase 2, Wayne County, prepared by MESCO, received August 4, 2004.
10. *Design Hydrogeologic Study, prepared for Wayne County Landfill Phase 3, Dudley, North Carolina* by MESCO, Garner, North Carolina and dated July 23, 2008 and revised through April 2011 (Doc ID 14054). This document includes the Ground and Surface Water Sampling and Analysis Plan and Landfill Gas Monitoring Plan.
11. *MSWLF Facility Permit to Construct Application, Phase 3, Wayne County, Dudley, North Carolina*, prepared for Wayne County by MESCO, Garner, North Carolina. April 2010, revised through May 2011 (Doc ID 14016).

CONSTRUCTION AND DEMOLITION LANDFILL CONDITIONS

[Permit No. 96-01 Issued Separately]

LAND CLEARING AND INERT DEBRIS LANDFILL CONDITIONS

[Not Applicable]

YARD WASTE CONDITIONS

[Not Applicable]

**PART III: PROPERTIES APPROVED FOR THE SOLID WASTE FACILITY**

<b>Wayne County, N.C. Register of Deeds</b>					
Book/Page	Grantee	Grantor	Tract	Parcel No.	Acres
1034/297	Wayne County, NC	Brooks	-	2576634613	46
968/850	Wayne County, NC	Whitley	-	2576732331	3
1583/57	Wayne County, NC	Whitley	-	2576738648	9.76
961/39	Wayne County, NC	Thomson, et al	-	2576747468	50
1584/275	Wayne County, NC	Triple M Facilities GP		2576656363	5.22
1099/869	Wayne County, NC	Whitfield		2576753319	27.56
2541/545	Wayne County, NC	Weaver, et al		2576856127	26.209
1584/275	Wayne County, NC	Triple M Facilities GP		2576755768	0.74
<b>Total Site Acreage:</b>					<b>168.489 acres</b>

**PART IV: GENERAL PERMIT CONDITIONS**

1. This permit is issued by the North Carolina Department of Environment and Natural Resources, Division of Waste Management, Solid Waste Section (Section). In accordance with North Carolina Solid Waste Management Rule (Rule) 15A NCAC 13B .0201(d), a solid waste management facility permit shall have two parts: a Permit to Construct and a Permit to Operate. The Permit to Construct shall expire eighteen (18) months from the issuance date of the Permit to Construct, December 13, 2012, as per Rule 15A NCAC 13B .1604(b)(2)(H) if construction of Phase 3 is not commenced. The Permit to Construct must be implemented in accordance with Attachment 2 of this permit. The Permit to Operate for Phases 1 & 2 shall expire June 13, 2016. The Permit to Operate must be implemented in accordance with Attachment 3 of this permit.
2. The persons to whom this permit is issued (“permittee”) are the owners and operators of the solid waste management facility.
3. The certified copy of Permit No. 96-06 issued October 30, 1997 was presented and recorded in Deed Book 1611, Pages 891 by the Wayne County Register of Deeds Office.
4. When this property is sold, leased, conveyed, or transferred in any manner, the deed or other instrument of transfer shall contain in the description section in no smaller type than that used in the body of the deed or instrument, a statement that the property has been used as a sanitary landfill and a reference by book and page to the recordation of the permit.

5. By beginning construction or receiving waste at this facility the permittee shall be considered to have accepted the terms and conditions of this permit.
6. Construction and operation of this solid waste management facility must be in accordance with the Solid Waste Management Rules, 15A NCAC 13B, Article 9 of Chapter 130A of the North Carolina General Statutes (NCGS 130A-290, et seq.), the conditions contained in this permit; and the approved plan. Should the approved plan and the rules conflict, the Solid Waste Management Rules shall take precedence unless specifically addressed by permit condition.
7. This permit is issued based on the documents submitted in support of the application for permitting the facility including those identified in Attachment 1, List of Documents for Approved Plan, and which constitute the approved plan for the facility. Where discrepancies exist, the most recent submittals and the Conditions of Permit shall govern.
8. This permit may be transferred only with the approval of the Section, through the issuance of a new or substantially amended permit in accordance with applicable statutes and rules. In accordance with NCGS 130A-295.2(g), the permittee must notify the Section thirty (30) days prior to any significant change in the identity or business structure of either the owner or the operator, including but not limited to, a proposed transfer of ownership of the facility or a change in the parent company of the owner or operator of the facility.
9. The permittee is responsible for obtaining all permits and approvals necessary for the development of this project including approval from appropriate agencies for sedimentation and erosion control, and a General or Individual National Pollutant Discharge Elimination System (NPDES) Stormwater Discharge Permit. Issuance of this permit does not remove the permittee's responsibilities for compliance with any other local, state or federal rule, regulation or statute.

*- End of Section -*

**ATTACHMENT 2  
 CONDITIONS OF PERMIT TO CONSTRUCT**

**PART I: MUNICIPAL SOLID WASTE LANDFILL UNIT SPECIFIC CONDITIONS**

1. Pursuant to the NC Solid Waste Management Rules (Rule) 15A NCAC 13B .0201(c) and (d)(1), this permit approves construction for Phase 3 of the landfill, consisting of approximately 21 acres with a projected gross capacity of 541,887 cubic yards (cy) in accordance with the approved plan Document No.11 (Doc ID 14016) referenced in Attachment 1, Part II, of this permit.
  - a. Gross capacity for Phase 3 is the measured volume between the top of the protective cover and the top of final cover as shown the Drawing No. F5 / Sheet No. 7 of 13.
  - b. Areas identified as future phases (Phase 4 through Phase 8) are deemed suitable for preparation of a permit application in accordance with Rule 15A NCAC 13B .1618(a)(1). The permittee must submit an application for a Permit to Construct in compliance with applicable rules and statutes before commencement of construction in those future areas.
  - c. This permit approves the modified Facility Plan that defines the comprehensive development of the facility including the modified phased development and all onsite solid waste management facilities and related infrastructure in accordance with Rule 15A NCAC 13B .1619. The Wayne County MSWLF provides a total gross capacity of approximately 5.4 million cubic yards, which include air space (waste and daily cover) and final cover, consistent with the final contours with the maximum 4 to 1 side slopes shown on Drawing No. F10 / Sheet No. 12 of 13 and Drawing No. F11 / Sheet No. 13 of 13, as stated in Attachment 1, Part II, Document No. 11. The landfill approved for development is summarized below:

Incremental Phase Development <sup>(1)</sup>	Acreage	Air Space (cubic yard)	Status
Phase 1	23	1,100,000	Developed & inactive
Phase 2	21	685,711	Developed & active
Phase 3	21	541,887	To be developed

Phase 4	vertical expansion	702,461	To be developed
Phase 5	vertical expansion	687,397	To be developed
Phase 6	vertical expansion	706,733	To be developed
Phase 7	vertical expansion	546,382	To be developed
Phase 8	vertical expansion	395,124	To be developed
Total	65	5,365,695 <sup>(2)</sup>	

Notes:

- (1) The nomenclature of the incremental phase development has revised from the initial facility plan (Document No.2, Attachment 1, Part II).
  - (2) The approved total gross capacity of the landfill is 5,365,695 cubic yards including the air spaces of 5,004,195 cy approved in 1997 and the volume of final cover system of approximately 361,500 cy (Document No. 11, Attachment 1, Part II).
2. The initial, substantial, construction authorized by this Permit to Construct must commence within 18 months from the issuance date of this permit. If substantial construction does not begin within 18 months from the issuance date of this permit, then the permit to construct shall expire. Substantial construction includes, but is not limited to, issuance of construction contracts, mobilization of equipment on site, and construction activities including installation of sedimentation and erosion control structures. The permittee may reapply for the Permit to Construct prior to the expiration date. The re-application will be subject to the statutes and rules in effect on that date and may be subject to additional fees.
  3. Construction of all solid waste management units within this facility including site preparation must be in accordance with NCGS 130A-295.8(b)(2) and the pertinent approved plans and only for those phases of development approved for construction as described in Attachment I, Part II, List of Documents for the Approved Plan.
  4. The permittee must conduct a preconstruction meeting at the facility prior to initiating construction of any unit/cell and must notify the Section at least 10 days prior to the meeting.

5. Modifications or revisions of the approved documents or changes during construction of any landfill unit/cell require approval by the Section, and may constitute a permit modification and be subject to a permitting fee.
  
6. The following conditions must be met prior to operation of Phase 3:
  - a. The permittee must obtain a Permit to Operate for the phase from the Section in accordance with Rule 15A NCAC 13B .0201(d)(2).
  - b. Construction Quality Assurance (CQA) documentation (Document No. 11, Attachment 1, Part II) and a certification by the project engineer that the landfill was built in accordance with approved plans and the conditions of the permit must be submitted to the Section for review and approval.
  - c. The permittee must contact the appropriate regional environmental specialist and permitting engineer to determine whether the Section chooses to hold a pre-operative meeting with key landfill personnel and representatives of the Section.
  - d. The edge of the waste footprint must be identified with permanent physical markers.
  - e. The construction completion reports for the landfill gas collection and control system (LFGCCS) and landfill gas to energy (LFGTE) projects including as-built drawings to show the locations of the gas extraction wells, sumps, flare stations, gensets and etc., permits (such as valid NC air quality permit) and approval documents from other agencies, and the modified Operation Plan to describe how the operation of LFGCCS and LFGTE projects can be smoothly and safely coordinated with daily operations of landfilling activities.
  - f. Documentation of financial assurance mechanisms must be submitted to the Section. The financial assurance amount must include closure and post-closure costs including the new phase to receive the Permit to Operate, in accordance with Rule 15A NCAC 13B .1628 and NCGS 130A-295.2.
  - g. The leachate collection system must be maintained in accordance with Rule 15A NCAC 13B .1626(12)(a) and the Leachate Management Plan as stated in the approved Document 11, Attachment 1, Part II. Upon completion of constructing of the leachate collection and removal system (LCRs) for the new Phase 3, the permittee shall conduct the visual inspection by using a remote video camera which is able to successfully access the entire lengths of leachate collection lines, risers, sumps, and other components to ensure that no sediment or other material has accumulated in the LCRs. Documentation of the inspections, and cleaning

and monitoring must be included in the operating records of the facility and appended to the CQA as requested in the subparagraph (b).

### GEOLOGIC, GROUNDWATER AND MONITORING REQUIREMENTS

#### **Geologic, Water Quality, and Landfill Gas Monitoring Requirements**

7. Prior to issuing the Permit to Operate, samples from new groundwater monitoring wells specified in the approved Ground and Surface Water Sampling and Analysis Plan (Attachment I, Part II, Document No.10) must be sampled for the Appendix I constituent list.
8. Prior to construction of the phase or cell(s) within the phase, all piezometers, borings, and groundwater and landfill gas monitoring wells within the footprint must be properly abandoned in accordance with 15A NCAC 2C .0113 (d)(2), entitled "Abandonment of Wells."
9. In areas where soil is to be undercut, abandoned piezometers, groundwater monitoring wells and borings must not be grouted to pregrade land surface, but to the proposed base grade surface to prevent having to cut excess grout and possibly damage the wells.
10. A Licensed Geologist must report any pertinent geological feature(s) exposed during phase or cell excavation. Prior to placing any landfill liner, the geologist must submit to the Section Hydrogeologist a written report that includes an accurate description of the exposed geological feature(s) and effect of the geological feature(s) on the design, construction, and operation of the cell, phase, or unit.
11. A Licensed Geologist must supervise the installation of groundwater monitoring wells and landfill gas monitoring wells. Each groundwater monitoring well and landfill gas well must be surveyed for location and elevation. Each groundwater monitoring well and landfill gas monitoring well must have an identification plate permanently attached to the well, in accordance with 15A NCAC 2C .0108(o).
12. Any modification to the approved water quality monitoring, sampling, landfill gas, and analysis plan must be submitted to the Section Hydrogeologist for review.
13. Groundwater and landfill gas monitoring well construction and abandonment must meet the requirements of 15A NCAC 02C.

14. Within 30 days of completed construction of each new groundwater and landfill gas monitoring well, a well construction record, well schematic, boring log, field log and notes, and description of well development activities, certified by a Licensed Geologist, must be submitted to the Section. Form GW-1(b) must be used for both groundwater and landfill gas wells. The submittal must also include a scaled topographic map, showing the location and identification of new, existing, and abandoned wells and piezometers.
15. Within thirty (30) days of the abandonment of any groundwater monitoring well or landfill gas monitoring well, the well abandonment record and any additional information included in the abandonment record must be certified by a Licensed Geologist, and submitted to the Section. Form GW-30 must be used for both groundwater and landfill gas wells.
16. All forms, reports, maps, plans, and data submitted to the Section must include an electronic (pdf) copy.

#### EROSION AND SEDIMENTATION CONTROL REQUIREMENTS

17. All required sedimentation and erosion control measures must be installed and operable to mitigate excessive on-site erosion and to prevent silt from leaving the area of the landfill unit during the service life of the facility.
18. All earth disturbing activities must be conducted in accordance with the Sedimentation Pollution Control Act of 1973 (15 NCAC 4) and consistent with any other local, state or federal requirements.
19. Facility construction, operations or practices must not cause or result in a discharge of pollution, dredged material, and/or fill material into waters of the state in violation of the requirements under Sections 401 and 404 of the Clean Water Act, as amended.
20. Modifications to the approved sedimentation and erosion control activities require approval by the North Carolina Land Quality Section. The Section must be notified of any sedimentation and erosion control plan modifications.

#### **PART II: CONSTRUCTION AND DEMOLITION DEBRIS UNIT SPECIFIC CONDITIONS**

(Not applicable)

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

(Not applicable)

**PART IV: COMPOSTING FACILITY SPECIFIC CONDITIONS**

(Not applicable)

**PART V: MISCELLANEOUS TREATMENT AND PROCESSING UNIT SPECIFIC  
CONDITIONS**

(Not applicable)

*- End of Section -*

### **ATTACHMENT 3 CONDITIONS OF OPERATING PERMIT**

#### **PART I: MUNICIPAL SOLID WASTE LANDFILL UNIT SPECIFIC CONDITIONS**

1. The Permit to Operate shall expire June 13, 2016. Pursuant to Rule 15A NCAC 13B .0201(g), no later than January 13, 2016, the permittee must submit a request to the Section for permit review and must update pertinent facility plans in accordance with Rule 15A NCAC 13B .1617 (b).
2. This permit approves the continued operation of Phases 1 and 2 of the landfill, as well as the onsite environmental management and protection facilities as described in the approved plans.
3. The permittee is required to make application for a permit amendment for subsequent phases of landfill development, in accordance with NCGS 130A-295.8(b)(2). Operation of Phase 3 requires written approval of the Section after documentations stated in pre-operating conditions in the Attachment 2 of this permit has been submitted that the area has been constructed in accordance with applicable statutes and rules.
4. This permit is for operational approval of the permitted disposal capacity of Phases 1 and 2, totaling approximately 1,785,711 cubic yards (cy), consistent with the final contours as shown on Drawing No. F4/ Sheet No. 6 of 13 in Document No. 11, Part II, Attachment 1. Approximately 1,539,760 cy have been used in the Phases 1 & 2, and the Phase 2 has remain capacity of approximately 245,951 cy. As stated in Document No. 11, Attachment 1, Part II, the remaining area in Phase 2 having approximately 2.05- year service life which is based on an average annual disposal rate of approximately 110,200 cy for the first year and an annual increase of 0.83 percent for each year thereafter. This corresponds to an average disposal rate up to 450 tons per day and maximum variance shall be in accordance with NCGS 130A-294(b1)(1).
5. The total landfill area consists of approximately 65 acres of disposal area, and a total gross capacity of approximately 5,365,695 cy. The approved facility boundary, including buffer areas, consists of approximately 168.5 acres.
6. The permittee must maintain permanent markers that accurately identify the edge of the approved waste disposal boundary.

7. The facility is approved to receive for disposal non-hazardous solid waste as defined in NCGS 130-290 (a)(35), except where prohibited by the NCGS Article 9 of Chapter 130A, and the rules adopted by the Commission for Health Services. The following, at a minimum, must not be accepted for disposal at the facility: hazardous waste, yard trash, white goods, tires, recyclable rigid plastic bottles, wooden pallets, motor vehicle oil filters, liquid wastes, regulated medical waste, sharps not properly packaged, PCB waste as defined in 40 CFR 761, and wastes banned from disposal in North Carolina by NCGS 130A-309.10(f).
8. Spoiled food, animal carcasses, slaughterhouse or hatchery waste, or other animal waste received must be immediately buried and covered with a layer of soil followed by non-putrescible municipal solid waste in accordance with Rule 15 NCAC 13B .1626(1)(c).
9. Regulated asbestos-containing material as defined in 40 CFR 61 must be managed in accordance with 40 CFR 61. Disposal of asbestos waste must be in accordance with Rule 15 NCAC 13B .1626(1)(d).
10. The facility is permitted to co-dispose of wastewater treatment sludge generated within the facility's approved service area, subject to the terms and procedures of the approved plan and Rule 15 NCAC 13B .1626(1)(e).
11. This facility is permitted to receive solid waste generated within Wayne County, consistent with the local government waste management plan and with local government approval.
12. The permittee must not knowingly dispose of any type or form of municipal solid waste that is generated within the boundaries of a unit of local government that by ordinance:
  - a. Prohibits generators or collectors of municipal solid waste from disposing of that type or form of municipal solid waste.
  - b. Requires generators or collectors of municipal solid waste to recycle that type or form of municipal solid waste.
13. The facility operator must complete an approved operator training course in compliance with NCGS 130A-309.25.
  - a. A responsible individual certified in landfill operations must be on-site during all operating hours of the facility at all times while open for public use to ensure compliance with operational requirements.

- b. All pertinent landfill-operating personnel must receive training and supervision necessary to properly operate the landfill units in accordance with NCGS 130A-309.25 and addressed by memorandum dated November 29, 2000.
14. The permittee must actively employ a screening program that detects and prevents the disposal of hazardous, liquid, and other unauthorized wastes. At a minimum, the program must include:
  - a. Random inspections of incoming loads or other comparable procedures.
  - b. Records of all inspections.
  - c. Training of personnel to recognize hazardous, liquid and other excluded waste types.
  - d. Development of a contingency plan to properly manage any identified hazardous, liquid, or other excluded or unauthorized wastes. The plan must address identification, removal, storage and final disposition of these wastes.
15. The use of alternative daily cover requires approval, prior to implementation, by the Section. Requests for use of an alternative daily cover material must include a plan detailing the storage, composition and application of the material and a demonstration of the effectiveness of the alternative daily cover. The plan must be developed according to Section guidelines. Plans which are approved by the Section will be incorporated into the approved documents listed in Attachment 1.
  - a. The use of tarp/synthetic cover as an alternative daily cover has been approved.
16. The facility must maintain records for all solid waste materials accepted as alternative cover material and used as alternate daily cover. The records must include: the date of receipt, weight of material, general description of the material, identity of the generator and transporter, and county of origin. Such records must be made available to the Section upon request.
17. The use of leachate recirculation as a leachate management tool requires approval by the 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 listed in Attachment 1. Leachate recirculation may take place only in landfill areas equipped with a base liner that meets the design requirements of Rule 15 NCAC 13B

.1624(b)(1)(A)(i).

18. The leachate collection system must be cleaned and maintained in accordance with Rule 15A NCAC 13B .1626(12)(a) and the approved maintenance plan as contained in Document No. 11, Part II, Appendix 1 and the permit conditions stated below:
  - a. For any cell(s) constructed utilizing on-site native soil as protective cover, the entire leachate collection lines shall be annually inspected by remote camera inspection to assure that no blockages have occurred. If a blockage is encountered, the line must be cleaned until the blockage is removed which must be verified and confirmed by remote camera inspection.
  - b. The sediment, residual, other material in the leachate piping that has been washed to the sump shall be properly removed from the sump by vacuum trucks.
  - c. After the waste inside the landfill cell has reached the height of the exterior berms, the Section may consider reduction in frequency for cleaning and video inspection to once every three year, upon written request from the permittee and pending the documented results of the cleaning and remote camera inspection.
  - d. The permittee must conduct the scheduled inspections for the leachate collection system according to the Leachate Management Plan (Document No. 11, Part II, Appendix 1).
  - e. Documentation of the lagoon and leachate line inspections and repairs, periodical leachate flow rates (including volumes from sumps to the lagoon and volumes removed and transported to the approved waste water treatment facility), and cleaning and monitoring must be included in the operating records of the facility and provided to the Section upon request.
19. Financial assurance as required by state rules and statutes must be continuously maintained for the duration of the facility in accordance with applicable Rules and statutes. The permittee must annually adjust cost estimates including closure and post-closure activities and the potential assessment and corrective action at the facility for inflation within 60 days prior to the anniversary date of the establishment of the financial

instrument, pursuant to 15A NCAC 13B .1628 and NCGS 130A-295.2(h).

20. The permittee must conduct closure and post-closure activities in accordance with the approved plans (Attachment 1, Part II, Document No. 11) and Rule 15A NCAC 13B .1627. An updated closure and post-closure plan must be submitted for approval at least ninety (90) days prior to closure or partial closure of any landfill unit. The plan must include all steps and measures necessary to close and maintain the MSWLF in accordance with all rules in effect at that time. At a minimum, the plan must address the following:
  - a. Design of a final cover system in accordance with 15 NCAC 13B .1627, or the solid waste management rules in effect at the time of closure;
  - b. Construction and maintenance/operation of the final cover system and erosion control structures;
  - c. Surface water, ground water, and explosive gas monitoring.
21. All sedimentation and erosion control activities must be conducted in accordance with the Sedimentation Control Act NCGS 113A-50, et seq., and rules promulgated under 15A NCAC 4. All required sedimentation and erosion control measures must be installed and operable to mitigate excessive on-site erosion and to prevent silt from leaving the area of the landfill unit during the service life of the facility.
22. Facility construction, operations or practices must not cause or result in a discharge of pollution, dredged material, and/or fill material into waters of the state in violation of the requirements under Sections 401 and 404 of the Clean Water Act, as amended.
23. Modifications to the approved sedimentation and erosion control activities require approval by the North Carolina Land Quality Section. The Section must be notified of any sedimentation and erosion control plan modifications

#### MONITORING AND REPORTING REQUIREMENTS

24. Groundwater and surface water monitoring must be conducted in accordance with Rules 15A NCAC 13B .1630 through .1637, and .0602, and the approved Ground and Surface Water Sampling and Analysis Plan (Attachment 1, Part II, Document No. 10). Any proposed modification to an approved plan must be submitted to the Section and approved prior to implementation.

25. The four independent samples which comprise the initial baseline sampling event must be collected from each groundwater monitoring well and the report must be submitted to the Section within six months after issuance of the Permit to Operate.
26. Groundwater monitoring wells and surface water sampling locations must be sampled at least semi-annually in accordance with 15A NCAC 13B .1633(b), the approved Ground and Surface Water Sampling and Analysis Plan, and the current policies and guidelines of the Section in effect at the time of sampling. In accordance with 15A NCAC 13B .1626(4), landfill gas monitoring must be conducted quarterly, unless otherwise specified by the Section.
27. Monitoring reports of the analytical results for surface water and groundwater monitoring sampling events must be submitted to the Section within 120 days of the sample collection date. Analytical laboratory data must be submitted in electronic portable document format (pdf) and in a spreadsheet format in an Electronic Data Deliverable (EDD) Template. All monitoring reports must contain:
  - a. a potentiometric surface map for the current sampling event,
  - b. analytical laboratory reports and summary tables,
  - c. a completed Solid Waste Environment Monitoring Data Form, and
  - d. laboratory data submitted in accordance with the EDD Template.
28. Untreated leachate must be sampled and analyzed at least semi-annually concurrently with the groundwater water and surface water sampling. The leachate must be analyzed for all Appendix I constituents, pH, specific conductance, BOD, COD, nitrates, sulfates, and phosphates. Test results must be submitted to the Section along with groundwater and surface water test results. In the event leachate is recirculated, additional leachate sampling may be required.
29. A readily accessible unobstructed path must be maintained so that groundwater and landfill gas monitoring wells and surface water sampling locations are accessible using four-wheel drive vehicles.
30. Documentation of well completion, development details, repair, abandonment, and all other pertinent activities associated with each groundwater and landfill gas monitoring well must be maintained in the facility operating record. The permittee must maintain a

record of all groundwater, surface water, and landfill gas monitoring events and analytical data in the operating record.

31. All landfill gas monitoring events must be conducted by properly trained personnel and must include monitoring for all explosive gases, including hydrogen sulfide. Landfill gas monitoring must include interior monitoring of onsite buildings.
32. Landfill gas monitoring results must be recorded on forms provided by the Section and be maintained in the facility's operating record.
33. The permittee is responsible to employ properly trained personnel to operate, inspect, and maintain the constructed landfill gas collection and control system (LFGCCs).
34. The permittee must maintain the valid permit (s) from the North Carolina Division of Air Quality and comply with any local, state or federal regulations including routinely reporting requirements to operate the existing LFGCCs.
35. All forms, reports, maps, plans, and data submitted to the Section must include an electronic (pdf) copy.

#### REPORTING REQUIREMENTS

36. Copies of this permit, the approved plans, and all records required to be maintained by the permittee must be maintained at the facility and made available to the Section upon request during normal business hours.
37. The permittee must maintain a record of the amount of solid waste received at the landfill unit, compiled on a monthly basis. Scales must be used to weigh the amount of waste received.
38. On or before August 1 annually, the permittee must submit an annual facility report to the Solid Waste Section, on forms prescribed by the Section.
  - a. The reporting period shall be for the previous year beginning July 1 and ending June 30.
  - b. The annual facility report must list the amount of waste received and landfilled in tons and be compiled:
    - i) On a monthly basis.

- ii) By county, city or transfer station of origin.
  - iii) By specific waste type.
  - iv) By disposal location within the facility.
  - v) By diversion to alternative management facilities.
- c. A measurement of volume utilized in the landfill cells must be performed during the second quarter of the calendar year. The date and volumes, in cubic yards, must be included in the report.
- d. The amount of waste, in tons from scale records, disposed in landfill cells from May 17, 1999 through the date of the annual volume survey must be included in the report.
- e. The completed report must be forwarded to the Regional Waste Management Specialist for the facility by the date due on the prescribed annual facility report form.
- f. A copy of the completed report must be forwarded to each county manager for each county from which waste was received at the facility. Documentation that a copy of the report has been forwarded to the county managers must be sent to the Regional Waste Management Specialist by the date due on the prescribed annual facility report form.

**PART II: MISCELLANEOUS SOLID WASTE MANAGEMENT SPECIFIC  
CONDITIONS  
(NOT APPLICABLE)**

- *End of Permit Conditions* -