



North Carolina Department of Environment Quality  
Division of Waste Management

Pat McCrory  
Governor

Donald R. van der Vaart  
Secretary

STATE OF NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENT QUALITY  
DIVISION OF WASTE MANAGEMENT  
SOLID WASTE SECTION

**SOLID WASTE MANAGEMENT FACILITY**  
**Permit No. 0105-CDLF-1998**

COBLE'S SANDROCK, INC.  
is hereby issued a

**PERMIT TO CONSTRUCT**  
COBLE'S CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL - PHASE 3B  
AND

**PERMIT TO OPERATE**  
COBLE'S CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL – PHASES 1, 2, AND 3A

Located at 5833 Foster Store Road (SR 1113) approximately one half mile east of the community of Kimesville in Liberty, Alamance 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  
Permitting Branch  
Solid Waste Section



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**ATTACHMENT 1**

**PART I: PERMITTING HISTORY**

<b>Permit Type</b>	<b>Date Issued</b>	<b>Doc ID No. (DIN)</b>
Original Issue	September 30, 1998	5987
Permit Modification 1 (Area Certifications)	April 4, 2000	5987
Permit Modification 2 (Area Certifications)	August 29, 2000	5987
Permit Modification 3 (1.15 acre Addition)	January 24, 2002	5987
Permit to Construct (PTC) for the Phase 2 Expansion	May 20, 2003	5987
PTC for the Phases 3A & 3B Expansion	January 30, 2009	4918
Permit to Operate (PTO) for the Phases 1 and 2, Continued Operation	February 23, 2009	6889
PTC for Phase 3B and PTO for Phases 2 & 3A	April 29, 2011	13652
Administratively Modified PTO <i>Consisting of Address correction page 1; Elimination of Attachment 3, Condition 21 referring to leachate collection; and Restoration of Part V conditions relating to material recovery.</i>	January 20, 2012	15921
PTC for Phase 3B and PTO for Phases 2 & 3A, Continued a 5-yr Operation –	February 08, 2016	25405

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

<b>DOCUMENT ID NO. (DIN)</b>	<b>DOCUMENT DESCRIPTION</b>
-	<i>Construction and Demolition Landfill Permit Application: Siting Requirements. Submitted by: Trigon Engineering Consultants, Inc. Dated: 18 September 1998.</i>
-	<i>Construction and Demolition Landfill Permit Application: Construction Plan Application. Submitted by: Trigon Engineering Consultants, Inc. Dated: 4 September 1998.</i>
-	Response to Technical review letter. Submitted by: Trigon Environmental Consultants, Inc. including a revised grading plan, revisions to the Water Quality Monitoring Plan, location of the 100 year Flood Plan elevation, and other information to satisfy permit requirements. Dated: 18 September 1998.
-	<i>Certificate of Approval from the Division of Land Quality. Dated 14 September</i>

	1998 approving the Sediment and Erosion Control Plan for the facility (included with the letter described in Item No. 3 above).
-	<i>Request for Modification to Construction and Demolition Debris Landfill Permit No. 01-05, Coble's Sandrock Alamance County, North Carolina.</i> Submitted by: Joyce Engineering. Dated: 2 July 2001 and revised 28 November 2001. This modification adds an additional 1.15 acres to the originally approved 5.85 acre footprint bringing the total footprint to 7.0 acres (local government approval for this facility is for 7.0 acres) and adjusting the side slopes from 4:1 to 3.5:1.
-	<i>Construction Plan Application, Phase 2 Expansion, Coble's Sandrock Construction and Demolition Debris Landfill.</i> Submitted by: Joyce Engineering, Inc. Dated: 10 June 2002 and revised May 2003.
-	<i>Phase 2 Expansion Permit Modification - Unit Specific Conditions Report</i> including well abandonment records, monitoring well installation records, base line sampling report for new MW-6 and MW-7, and related hydro-geological information. Submitted by: Joyce Engineering, Inc. Dated: 28 August 2003.
5987	<i>Operation Plan Mulching Addendum</i> (2 pages) and a revised Drawing #3 showing the mulching operation area. Submitted by: Joyce Engineering, Inc. Dated: 19 November 2003.
-	Letter addressing subgrade testing as required by the franchise agreement with Alamance County for Phase 2 Cell A. Submitted by: Joyce Engineering, Inc. Dated: 22 December 2003.
-	Letter providing geologist inspection and surveyed base grade certification from Trittech Civil Environmental, P.C. for Phase 2, Cell A. Submitted by: Joyce Engineering, Inc. Dated: 23 December 2003.
-	Survey dated 14 September 2004 from Trittech Civil Environmental, P.C. certifying base grades for entire Phase 2, Cell B boundary and footprint.
6702	Brown, Michelle M. to Ed Mussler, PE. "Coble's Sandrock, Inc. C&D Landfill, Request for Extension to Solid Waste Permit #01-05". December 9, 2008.
2470	<i>Volume I – Site Application, Coble's Sandrock, Inc. C&amp;D Landfill, Alamance County, North Carolina.</i> Prepared by: Joyce Engineering, Inc. Dated: March 2006 and revised through June 4, 2007. Section I – Site Suitability Report for additional 14.4-acre lateral expansion approved on August 27, 2007 (DIN 2960) and Section II Hydrologic Report for Phases 3A & 3B approved on December 11, 2007 (DIN 3535).
4862	<i>Volume II – Application for Permit to Construct Phase 3, Coble's Sandrock, Inc. C&amp;D Landfill, Alamance County, North Carolina.</i> Prepared by: Joyce Engineering, Inc. Dated: September 2007 and revised through May 2008.
7997	Landfill Gas Probe Installation Report. Prepared by: Joyce Engineering, Inc.

	Dated: July 09, 2009. Gas probes GP-1 through GP-4 were installed.
10849	Letter providing geologist inspection for Coble's Sandrock, Inc. C&D Landfill, Permit No. 01-05, Phase 3A Construction. Prepared by Joyce Engineer, Inc. Date April 26, 2010.
8676	<i>Coble's Sandrock C&amp;D Landfill Phase 3A Expansion / Construction Quality Assurance Certification Report.</i> Submitted by: Joyce Engineering, Inc. Dated: April 2010.
11372	Letter of Notification for Partial Closure the Phases 1 (the west facing slopes) & 2 (northwest corner) up to four (4) acres in area. Prepared by: Joyce Engineering, Inc. Dated July 14, 2010.
13652	<i>Permit Modification for Asphalt Shingles Recycling.</i> Submitted by Joyce Engineering. Dated: February 2011 and Revised April 2011.
13651	Correspondence from Joyce Engineering, Inc. providing summary of cell areas and volumes dated April 19, 2011.
24346	<i>Ordinance Granting A Construction and Demolition Debris Landfill Franchise to Cobles's Sandrock, Inc.</i> Seven (7) year-term franchise agreement with Alamance County is effective on September 02, 2012 and will expire on <b>September 02, 2019.</b>
24357	<i>Coble's Sandrock C&amp;D Landfill Phases 1 &amp; 2 Partial Closure, Construction Quality Assurance.</i> Submitted by: Joyce Engineering, Inc. Dated: August 16, 2013 and revised through January 8, 2016.
24361	Letter - Permit Renewal for Coble's Construction and Demolition Landfill, Alamance County, NC – NC DENR Permit #01-05. Prepared by Joyce Engineering, Inc. Dated August 20, 2013.
24363	Letter - Permit Renewal for Coble's Construction and Demolition Landfill, Alamance County, NC – NC DENR Permit #01-05. Prepared by Joyce Engineering, Inc. Dated January 16, 2014. This submittal consists of a request for minor modification and update of closure and post-closure plan original submitted in August 20, 2013.
24356	Letter - Application for 5-year Permit to Operate Amendment for Coble's Construction and Demolition Landfill, Alamance County, NC – NC DENR Permit #01-05. Prepared by Joyce Engineering, Inc. Dated August 4, 2014. This letter responded to the comments dated June 11, 2014 (DIN 21202).

24430	Letter Response to May 29, 2015 Comments, Permit Amendment Application for a Five-Year Permit Review, Coble's Construction and Demolition Debris Landfill, Alamance County, NC. Prepared by Joyce Engineering, Inc. Dated June 1, 2015.
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**PART III: PROPERTIES APPROVED FOR THE SOLID WASTE FACILITY**

<b>Alamance County, N.C. Register of Deeds</b>				
<b>Book</b>	<b>Pages</b>	<b>Grantee</b>	<b>Grantor</b>	<b>Acreage</b>
1941	177	Kent Lee Coble and Wife Brenda Lamm Coble	Gregg Ray Phillips	17.25
1432	504	Kent Lee Coble and Wife Brenda Lamm Coble	Gijsbertus F. Van Staveren and Wife Cynthia J. Van Staveren	19.12
1309	324	Kent Lee Coble and Wife Brenda Lamm Coble	Devoe C. Euliss	12.67
1117	83	Kent Lee Coble and Wife Brenda Lamm Coble	Deanna Marie Coble	16.31
1074	958	Kent Lee Coble and Wife Brenda Lamm Coble	Gijsbertus F. Van Staveren and Deanna Marie Coble	19.82
375	553	Kent Lee Coble and Wife Brenda Lamm Coble	A.B. Coble; M.R. Coble & Wife Alma Coble; T.C. Coble & Wife Catherine Coble; J.P. Kimrey & Wife Dewell Coble Kimrey	97
Total Site Acreage: 182.17 acres				

**PART IV: GENERAL PERMIT CONDITIONS**

1. This permit is issued by the North Carolina Department of Environment Quality, Division of Waste Management (the Division), Solid Waste Section (the Section). Pursuant to North Carolina Solid Waste Management Rule (Rule) 15A NCAC13B .0203(b), the Section approves the permit amendment application and issues Coble's Sandrock, Inc. (the permittee) this permit. In accordance with 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 must be implemented in accordance with Attachment 2 of this permit. 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. This Permit to Construct (DIN 4918) for the Coble's C&D Landfill has been registered in the Alamance County Register of Deeds on February 13, 2009, Deed Book 2787, Pages 881-892 (DIN 6866).
4. When this property is sold, leased, conveyed, or transferred in any manner, the deed or other instrument of transfer must 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 or operation of this solid waste management facility must be in accordance with Rule 15A NCAC 13B, Article 9 of the 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. Failure to comply may result in compliance action or permit revocation.
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, Part II, "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 shall 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, if applicable. 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 1: CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL (C&DLF) CONSTRUCTION CONDITIONS**

1. Pursuant to the North Carolina Solid Waste Management Rules (Rules) 15A NCAC 13B .0201(d)(1), this permit approves the construction of the C&DLF – Phase 3B, as shown on the Drawing No. FP-01, according to the approved plan (DIN 4862), the requirements stated in Rules 15A NCAC 13B .0531 - .0547, and the following permit conditions. The construction of the C&DLF– Phase 3B is permitted for approximately:
  - i. 349,213 cubic yards of total gross capacity as defined in Rule 15A NCAC 13B .0537(e)(2)(B).
  - ii. 5.8 acres.
2. This Permit to Construct (PTC) shall expire **August 8, 2017**, eighteen (18) months from the issuance date of this permit according to Rule 15A NCAC 13B .0534(b)(2)(H) if the initial or substantial construction authorized in the permit do not begin within 18 months from the issuance date of this permit, then the permittee must obtain a permit modification from the Section prior to construction, comply with the conditions of the approval and submit a permit modification fee. 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. A Modification to the Permit to Construct for the facility will be required in accordance with rules in effect at the time of review of the request and shall be subject to a permit modification fee according to NCGS 130A-295.8.
3. This facility shall conform to the specific conditions set forth in this permit and the provisions of Rule 15A NCAC 13B .0534(b)(2).
4. A copy of this permit, the approved plans, and all pertinent records and reports shall be maintained on-site at the facility and made available to the Division upon request according to Rule 15A NCAC 13B .0542(n).

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 according to NCGS 130A-295.8.
6. The permittee shall submit the Section an amendment to this permit for any subsequent phase (Phase 4 through Phase 8) of development of the C&DLF or a modification request to revise or modify the approved design or construction of any landfill phases, cells or fill sequences require in accordance with Rules 15A NCAC 13B .0533(a)(2) and (a)(4), respectively.
7. According to Rule 15A NCAC 13B .0542(i)(2), on-site open burning is prohibited. However, burning of land-cleaning debris generated on site as a result of construction activities may be allowed, only if, prior to initiating the controlled burning, the permittee obtains approvals and/or permits from the Section, the North Carolina Division of Air Quality, and local fire department. The permittee must conduct the approved open burning in compliance with all air pollution and open burn laws, regulations and ordinances.
8. The permittee must conduct an on- site preconstruction meeting prior to initiating construction of any unit/cell and must notify the Section at least ten (10) days prior to the meeting.
9. The permittee shall implement the approved construction quality assurance plan (DIN 4862) in accordance with Rules 15A NCAC 13B .0540 & .0541 and the franchise agreement with Alamance County (DIN 24346).

#### GEOLOGIC, GROUND WATER AND MONITORING REQUIREMENTS

10. Prior to construction of the phase or cell(s) within the expansion area, all piezometers, borings, and groundwater and landfill gas monitoring wells within the footprint must be properly abandoned by overdrilling first (exception of non-cased borings) and sealed with grout in accordance with 15A NCAC 2C .0113, entitled "Abandonment of Wells."
11. In areas where soil is to be undercut, abandoned piezometers, groundwater and landfill gas 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.
12. 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.

13. 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).
14. Any modification to the approved water quality monitoring, sampling, landfill gas, and analysis plan must be submitted to the Section Hydrogeologist for review and approval.
15. Groundwater and landfill gas monitoring well construction and abandonment must meet the requirements of 15A NCAC 02C.
16. 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.
17. 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.
18. All forms, reports, maps, plans, and data submitted to the Section must include an electronic (pdf) copy.

#### EROSION AND SEDIMENTATION CONTROL REQUIREMENTS

19. Prior to construction of Phase 3B, all sedimentation and erosion control activities shall conform and be constructed in accordance to the requirements described in the approved erosion and sediment control plan (DIN 4862), the Sedimentation Pollution Control Law (15A NCAC 04), and any required NPDES permits. During the course of construction of the approved expansion area, the permittee must implement, but not be limited to, the following sedimentation and erosion control activities:
  - a. All sedimentation and erosion control activities shall be conducted by installing and maintaining adequate structures and measures to manage the run-on and run-

off generated by the 24-hour, 25-year storm event, to prevent silt from leaving the site, and to prevent excessive on-site erosion.

- b. Provisions for a vegetative ground cover sufficient to restrain erosion must be established within 30 working days or 120 calendar days upon completion of any phase or cell of C&DLF development.
20. Modifications of sedimentation and erosion control activities must be approved by the NC Land Quality Section. Upon receiving the approval letter, the permittee shall notify the Section of any sedimentation and erosion control modifications.

#### PRE OPERATIONAL CONDITIONS

21. Prior to receiving waste at any unit or phase of this C&DLF, a Permit to Operate must be obtained from the Section in accordance with Rules 15A NCAC 13B .0201(b) &(d)(2).
22. The following requirements shall be met prior to operating the new Phase 3B of the C&DLF approved to be constructed in this permit:
- a. Site preparation must meet the requirements stated in Rule 15A NCAC 13B .0540, the franchise agreement with Alamance County (DIN 24346), and the approved plan (DIN 4862).
  - b. A written Construction Quality Assurance (CQA) and certification report including as-built drawings in accordance with Rules 15A NCAC 13B.0541(c) & (d) and the approved CQA Plan (DIN 4862) shall be submitted to the Section for review and approval.
  - c. Prior to waste disposal in any new phase or cell, the permittee shall arrange for a site inspection and/or a pre-operative meeting by a representative(s) or regional environmental specialist of the Section for the purpose of demonstrating that the facility construction is consistent with approved plans and specifications.
  - d. Documentation of financial assurance mechanisms must be submitted to the Section for a review and approval. In accordance with Rule 15A NCAC 13B .0546 & .0547(2) and NCGS 130A 295.2(h1), the financial assurance amount must include costs for conducting closure for four (4) acres at any time and post-closure activities at the Phases 1, 2 and 3 areas, approximately 24.1 acres (DIN 24357), to receive the PTO and costs for potential assessment and corrective action.

- e. Ground water monitoring wells and/or gas probes shall be installed, and surface water sampling locations shall be established. A baseline sampling event for background water quality shall be completely performed in accordance with Rule 15A NCAC 13B. 0544(b)(1)(D). Well construction records and sampling results shall be submitted to the Section Hydrogeologist for review and approval prior to issuing the Permit to Operate for the C&DLF.
- f. The permittee shall completely implement and install site access, security, signs, and safety requirements in accordance with Rule 15A NCAC 13B. 0542(j).
- g. The edge of the waste footprint must be physically identified with permanent physical markers, for both existing units and the new unit.

*- End of Section-*

### **ATTACHMENT 3**

#### **CONDITIONS OF PERMIT TO OPERATE**

##### **PART I: FACILITY OPERATING CONDITIONS**

1. Pursuant to Rule 15A NCAC 13B .0201(g) and the franchise agreement with Alamance County (DIN 24346), the Permit to Operate (PTO) for Coble's C&DLF- Phases 1, 2 and 3A and other miscellaneous waste management units shall expire **September 02, 2019**. Pursuant to 15A NCAC 13B .0533(a)(2), no later than **June 09, 2018**, the permittee must submit a request to the Section for permit review and must update pertinent facility plans including, but not limited to, the facility operation and waste screening plans in accordance with 15A NCAC 13B .0535 and renew the franchise agreement with Alamance County.
2. The following table lists the dimensions and details for the C&DLF according to the approved facility plan and amendment (DIN 4862, 13651, & 24363). The C&DLF unit has approved gross capacity of 6,935,903 cubic yards (CY) as defined in Rule 15A NCAC 13B .0537(e)(2) and has a final fill elevation up to 816 feet above mean sea level with a 3 (horizontal) to 1 (vertical) side slopes as shown on Drawing No. FP-02 (DIN 4862).

<b>C&amp;D Landfill Phase</b>	<b>Waste Footprint (Acres)</b>	<b>Gross Capacity (CY)</b>	<b>Permit Status</b>
1	6.5 <sup>1</sup>	365,301	4.2 acres are closed & remaining 2.3-acre area is inactive <sup>1</sup>
2A	0.9 <sup>1</sup>		0.9-acre closed <sup>1</sup>
2B	4.6 <sup>1</sup>	320,000	3.9 acres are closed & remaining 0.7-acre area is inactive <sup>1</sup>
3A	6.3	570,662	PTO (This Permit – Attachment 3)
3B	5.8	349,213	PTC (This Permit - Attachment 2)
4	8.2	1,043,245	These phases are approved for development. Requires submittal of PTC/PTO applications according to Rule 15A NCAC 13B. 533
5	7.0	890,575	
6	8.0	1,017,800	
7	6.9	877,852	
8	11.8	1,501,255	
Totals	66.0	6,935,903	

Note:

- The perimeter road is constructed in the approved waste footprint of Phases 1 (0.5 acres), 2A (0.1 acres), & 2B (0.2 acres). Since no waste has ever been disposed underneath the perimeter road, the areas occupied by the road (approximately 0.8 acres in total) are excluded from the originally approved waste footprint of 66.8 acres (DIN 24357).
- This permit approves the continued operation of the C&DLF – Phases 1, 2, and 3A, the other miscellaneous solid waste management units, and the onsite environmental management protection facilities as described in the plans (DIN 4862 & 24363). According to the plan (DIN 24363), the permittee shall only operate area no more than four (4) acres for landfill disposal at 6.3-acre Phase 3A at any time. Disposal area exceeding four (4) acres must be closed according to the Closure Plan (DIN 24363) and Permit Condition No 32, Part IV, Attachment 3 of this permit. The partial closure of approximately 9.13 acres that were completed at the Phases 1, 2, & 3A areas are subjected to post-closure care requirements according to Permit Condition Nos 33 to 35, Attachment 3 of this permit.
- The permittee must operate the C&DLF in accordance with Rule 15A NCAC 13B .0542, the franchise agreement with Alamance County (DIN 24346), and the requirements contained in this permit and must conform to the operating procedures described in the approved plan (DIN 4862). Operations of any future phases, cells, or sub-cells of the C&DLF require written approval of the Section and must be constructed in accordance with applicable statutes and rules in effect at the time of review.

5. This facility is permitted to receive the following wastes for disposal in the C&DLF:
  - a. "Construction or demolition debris" as defined in NCGS 130A-290(a)(4) means solid waste resulting solely from construction, remodeling, repair or demolition operations on pavement, buildings, or other structures, but does not include inert debris, land-clearing debris or yard debris.
  - b. "Inert debris" as defined in NCGS 130A-290(a)(14) means solid waste that consists solely of material such as concrete, brick, concrete block, uncontaminated soil, rock, and gravel.
  - c. "Land-clearing debris" as defined in NCGS 130A-290 (a)(15) means solid waste that is generated solely from land-clearing activities, limited to stumps, trees, limbs, brush, grass, and other vegetative material.
  - d. "Asphalt" in accordance with NCGS 130A-294(m).
  
6. The C&DLF units must **NOT** receive the following waste types for disposal unless otherwise specified by the following permit conditions:
  - a. Wastewater treatment sludge is not approved for disposal. Wastewater treatment sludge may be accepted, with the approval of the Section, for utilization as a soil conditioner and incorporated into or applied onto the vegetative growth layer. The wastewater treatment sludge must not be applied at greater than agronomic rates nor to a depth greater than six inches according to Rule 15A NCAC 13B .0542(d).
  - b. "Yard waste" as defined in Rule 15A NCAC 13B .0101(56) meaning "Yard Trash" and "Land-Clearing Debris" as defined in NCGS 130A-290 shall not be disposed in the landfill area. However, yard trash, along with land-clearing debris, may be accepted, processed and/or disposal in the on-site land-clearing inert debris (LCID) landfill with a Notification No. N0144 or the yard waste and mulching area.
  - c. Wooden pallets as defined in NCGS 130A-290.(44a) are not approved for disposal except for those pallets generated in C&D activities and may be accepted and managed in the on-site LCID Landfill (Notification No. N0144) or the yard waste and mulching area.
  - d. Wastes exclude from disposal in a C&DLF as specified in Rule 15A NCAC 13B .0542(e). The prohibited wastes include, but are not limited to; hazardous waste,

municipal solid waste, liquid waste, commercial or industrial wastes, and yard trash.

- e. Materials including friable asbestos waste as defined in Rule 15A NCAC 13B .0542(c)(2) are not allowed for acceptance for disposal under the franchise agreement with Alamance County (DIN 24346). Other 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 .0542 (c)(2).
7. The facility is permitted to receive solid waste generate within the following areas:
    - a. Areas are located twenty-five (25) miles from the landfill.
    - b. The existing customers that are located outside twenty-five (25) miles from the landfill are grandfathered under the franchise agreement with Alamance County.
    - c. The new customers that are located outside twenty-five (25) miles from the landfill are replacing existing ones.
    - d. The counties from which the facility has previously taken wastes are including: Alamance, Cabarrus, Caswell, Chatham, Davidson, Forsyth, Greene, Guilford, Lee, Orange, Randolph, Rockingham, and Wake.
  8. The facility has the approved waste disposal rate up to 600 tons per day according to the franchise agreement with Alamance County (DIN 24346). Revisions to the design or operation of the facility or changes to the facility service area must be submitted to the Section for review and approval prior to the implementation of any changes according to NCGS 130A-294.(b1) & -295.8. Revisions or changes that require modification to the permit will be subject to the appropriate permitting fee according to NCGS 130A-295.8.
  9. The permittee must properly maintain permanent markers that accurately identify the edge of the approved waste disposal boundaries of the C&DLF.
  10. The permittee must not knowingly dispose of C&D solid waste that is generated within the boundaries of a unit of local government that by ordinance:
    - a. Prohibits generators or collectors of C&D solid waste from disposing of that type or form of C&D solid waste.
    - b. Requires generators or collectors of C&D solid waste to recycle that type or form of C&D solid waste.

11. 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 time while open for public use to ensure compliance with operational requirements.
  - b. All pertinent landfill-operating personnel must receive training and supervision necessary for the proper operation of the C&DLF units in accordance with NCGS 130A-309.25 and addressed by memorandum dated November 29, 2000.
12. The permittee must actively employ a training and screening program at the facility prepared in accordance with Rule 15A NCAC 13B .0544(e) and approved plan (DIN 4862) for detecting and preventing the disposal of excluded or unauthorized wastes described in this permit. 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 industrial, hazardous, liquid, municipal, and other excluded waste types.
  - d. Development of a contingency plan that properly manages any identified industrial, hazardous, liquid, municipal, and other excluded wastes. The plan must address identification, removal, storage and final disposition of those wastes.
13. In accordance with NCGS 130A-295.6 this landfill may use alternative daily cover (ADC) that has been previously approved at another sanitary landfill in North Carolina. The Section maintains a list of approved ADC and its appropriate use, which may be referred to, but is not required to be, in determining ADC types and uses.
14. The use of alternative periodic cover that does not meet the requirements stated in Permit Condition No. 13 requires approval, prior to implementation, by the Section. Requests for alternative periodic cover approval must include a plan detailing the comprehensive use and a demonstration of the effectiveness of the alternative cover, developed according to Section guidelines. Plans that are approved by the Section will be incorporated into, and made a part of, the approved documents listed in Attachment 1.
15. The permittee must maintain records for all solid waste materials accepted as alternative cover material and used as alternate daily or periodic covers for all landfill units. 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.

16. Financial assurance must be continuously maintained for the duration of the facility in accordance with Rules 15A NCAC 13B .0546 & .0547(2) and NCGS 130A-295.2(h1). During the active life of the C&DLF, the permittee must annually adjust the cost estimates including closure and post-closure activities for inflation within 60 days prior to the anniversary date of the establishment of the financial instrument(s) in accordance with applicable rules and statutes.
17. 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.
18. 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.
19. 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: MONITORING AND REPORTING REQUIREMENTS**

20. Groundwater, surface water, and landfill gas monitoring locations must be established and monitored according to Rule 15A NCAC 13B .0544 and the approved plan (DIN 4862). Any proposed modification to an approved plan must be submitted to the Section and approved prior to implementation.
21. The permittee must obtain approval from the Section for the design, installation, development or abandonment of any groundwater monitoring well or landfill gas monitoring well. Any modification to the approved Water Quality Monitoring Plan or Gas Control Plan (DIN 4862) must be reviewed and approved by the Section.
22. Groundwater monitoring wells and surface water monitoring points must be sampled at least semi-annually in accordance with Rule 15A NCAC 13B .0544, the approved water quality monitoring plan, and the current policies and guidelines of the Section in effect at the time of sampling. In accordance with Rule 15A NCAC 13B .0544(d) and approved

landfill gas control plan, landfill gas monitoring must be conducted quarterly, unless otherwise specified by the Section.

23. Monitoring reports of the analytical results for 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.
24. 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 according to Rule 15A NCAC 13B .0542(j)(3).
25. 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.
26. All forms, reports, maps, plans, and data submitted to the Section must include an electronic (pdf) copy.
27. All landfill gas monitoring events must be conducted by properly trained personnel and must include monitoring for all explosive gases, including hydrogen sulfide according to the approved monitoring plan. Landfill gas monitoring must include interior monitoring of onsite buildings.
28. Landfill gas monitoring results must be recorded on forms provided by the Section and be maintained in the facility's operating record.

### **PART III: REPORTING AND RECORDKEEPING REQUIREMENTS**

29. Copies of this permit, the approved plans, and all records required to be maintained in the operating record by the permittee must be maintained at the facility and made available to

the Section upon request during normal business hours according to 15A NCAC 13B .0542(n).

30. The permittee must maintain records of the following. Scales must be used to weigh the amount of waste received. The daily reports are to be summarized into a monthly report for use in the required annual reports.
  - a. The amount of all accepted solid waste materials as (i) C&D wastes, (ii) material used as alternate periodic cover, and (iii) recyclable/recovered material.
  - b. Daily records of waste received, and origins of the loads.
31. On or before August 1 annually, the permittee must submit an annual facility report to the 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 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 C&DLF 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 the initial disposal through the date of the annual volume survey must be included in the report.
  - e. The tons of waste recycled, recovered or diverted from disposal including a description of how and where the material was ultimately managed, as applicable, must be included in the report.
  - f. The completed report must be forwarded to the Regional Senior Environmental Specialist for the facility by the date due on the prescribed annual facility report form.

- g. 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 Senior Environmental Specialist by the date due on the prescribed annual facility report form.

#### **PART IV: CLOSURE AND POST-CLOSURE**

- 32. The permittee must conduct closure and post-closure activities in accordance with the Closure and Post-Closure Plans (DIN 4862 & 24363) and Rule 15A NCAC 13B .0543. Modification of the approved closure plan to construct an alternative cap system is allowed by Rule 15A NCAC 13B .0543; however, the modified 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 C&D unit 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 Rule 15A NCAC 13B .0543(c) 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; and
  - c. Surface water, ground water, and explosive gas monitoring.
- 33. The partial closure areas of approximately 9.13 acres at Phases 1, 2, & 3A of the C&DLF are described in the certified closure report (DIN 24357). Because the areas are only a partial closure of the landfill unit, the required 30-year post-closure period shall not commence until the certified closure date of all phases located at the landfill unit. The permittee shall conducted inspection, necessary repair and maintenance activities according to the Post-Closure Plan (DIN 4862 & 24356).
- 34. The permittee must ensure that continuing solid waste management activities within the facility must be conducted in accordance with all pertinent requirements and permit conditions and must not violate any post-closure conditions.
- 35. The permittee must not disturb the integrity of the final cap system or the function of the monitoring systems unless specifically approved by the Division when the closed area is planning for other post-closure uses.

#### **PART V: MISCELLANEOUS SOLID WASTE MANGEMENT UNIT SPECIFIC CONDITIONS**

36. The permittee must operate and manage the recyclables and/or recovered material, that are generated from the service area defined in the Permit Condition No. 7, Attachment 3 of this permit, according to the following Permit Conditions, NCGS 130A-309.05(c), and the operations plans (DIN 4862, 5987, & 13652). Any revisions to the approved operations plan shall be approved by the Section, prior to implementation. However, a permit modification is not necessary for utilizing alternate markets that are generally or widely used for the legal disposition of recovered material or recyclables.
37. The permittee must operate, maintain, and store received recyclables in reasonably sized areas or piles with adequate fire breaks and lanes, with sufficient dust and odor control measures to minimize airborne emissions and to prevent dust or litter from becoming a nuisance or safety and fire hazard.
38. Surface water shall be diverted from all operational and storage areas to prevent standing water in operational areas and under or around storage piles. Water that comes in contact with solid waste is deemed to be leachate and shall be contained on-site or properly treated prior to discharge.
39. Effective vector control measures shall be applied as necessary to control flies, rodents, insects, or vermin.
40. The permittee is approved to separate recyclables and/or recovered material (as defined in NCGS 130A-290.(a)(24) & (26), respectively) from the received wastes stream as stipulated in the Permit Condition No. 5, Attachment 3 of this permit, except asphalt shingles, at the working face of the C&DLF in accordance with the approved operation plan (DIN 4862).
41. The following wastes are permitted to be recycled or recovered from the working face of the C&DLF:
  - a. Non-treated and non-painted clean wood including wooden pallet.
  - b. Cardboard, plastic, scrap metal, and uncontaminated and unpainted concrete, brick, concrete block, and other material identified as appreciate for recycling.
42. The permittee shall operate and manage tear-off asphalt shingle area at the working face of the C&DLF by implementing the approved operations plan (DIN 13652). Tear-off asphalt shingle for recycling shall be accepted only when the shingle is appropriately source-separated prior to delivery to the facility. Neither sorting, mixing, processing asphalt shingle nor separating wastes from asphalt shingle are allowed at this facility.

43. The permittee shall operate and manage a yard waste and mulching area according to approved plan (DIN 5987). Permitted construction and demolition debris/wastes shall not be sorted and processed at this area. Composting is prohibited at the landfill facility.
44. All recyclables and/or recovered materials must be sorted and securely stored by the end of each operating day. All non-recoverable materials in the sorting area must be properly disposed in the C&DLF by the end of each operating day.
45. The permittee must operate, maintain, and store received recyclables or recovered material in reasonably sized areas or piles with adequate fire breaks and lanes, with sufficient dust and odor control measures to minimize airborne emissions and to prevent dust or litter from becoming a nuisance or safety and fire hazard.
46. The permittee must keep the latest contact information of the contract haulers and recyclers of the recyclable in the operating record.

- *End of Permit Conditions* -