



North Carolina Department of Environmental Quality
Division of Waste Management

Pat McCrory
Governor

Donald R. van der Vaart
Secretary

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION
SOLID WASTE MANAGEMENT FACILITY
Permit No. 3424

OVERDALE HOLDINGS, INC. (OWNER)
and
ABBEY GREEN, INC. (OPERATOR)
is hereby issued a

PERMIT TO CONSTRUCT
Not Applicable

PERMIT TO OPERATE

3424-TRANSFER-2010, ABBEY GREEN INC

PERMIT FOR CLOSURE
Not Applicable

Located at *5030 Overdale Road, City of Winston-Salem, Forsyth 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 1 of this permit.

Edward F. Mussler, III, P.E., Supervisor
Permitting Branch, Solid Waste Section
Division of Waste Management, NCDEQ



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ATTACHMENT 1
 GENERAL PERMIT CONDITIONS/INFORMATION

PART I: GENERAL FACILITY

Permit to Operate Date Table

Permit	Status	Issuance	Interim Review	Expiration	DIN
3424-TRANSFER-2010, Abbey Green Inc.	Active	<i>April 13, 2016</i>	July 30, 2020	July 30, 2025	25954

General Conditions

1. This permit is issued by the North Carolina Department Environmental Quality, Division of Waste Management, Solid Waste Section (Section). In accordance with North Carolina Solid Waste Management 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. The Permit to Operate for Abbey Green Inc. dated July 30, 2010, was recorded in the Forsyth County Register of Deeds on August 11, 2010, in Deed Book RE 2958, Pages 31 - 41. DIN 11403.
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 solid waste management facility 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. Operation of this solid waste management facility shall be in accordance with the Solid Waste Management Rules, 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, 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 a general or individual 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.

Properties Approved for the Solid Waste Management Facility

Forsyth County NC Register of Deeds			
Book	Page	Property Owner	Acres
2915	3250-3255	Dogwood Development and Management Company, LLC	20.80
			Total Site Acreage: 20.80 acres

PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)

Not Applicable

PART III: CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL UNIT(S)

Not Applicable

PART IV: INDUSTRIAL LANDFILL UNIT(S)

Not Applicable

PART V: LAND CLEARING AND INERT DEBRIS LANDFILL UNIT(S)

Not Applicable

PART VI: TRANSFER STATION/TREATMENT & PROCESSING UNIT(S)

3424-TRANSFER-2010, Abbey Green Inc.

Permitting History

Permit Type	Date Issued	DIN
Permit to Construct/Operate – Original Issuance.	July 30, 2010	11221
Permit to Construct/Operate – Revised	November 2, 2010	11221
Permit to Operate – Modification, changes to approved disposal facilities	April 27, 2011	13666
Permit to Operate – Modification, changes to Operations Plan, Service Area, and Constructed Improvements	November 9, 2011	15554

Permit to Operate – Modification, changes to Operations Plan and addition of Disposal Facilities.	September 3, 2013	19606
Permit to Operate – Amendment, 10 Year Renewal	April 13, 2016	25954

List of Documents for Approved Plan

DIN	Description
7788	<i>C&D Treatment and Processing, Permit Application, Abbey Green Recycling Center, 5030 Overdale Road, Winston-Salem, North Carolina, Kleinfelder Project No. 102111.</i> Prepared for Abbey Green. Prepared by Kleinfelder. May 2009.
11061	<i>Site Plan and Building Drawings.</i> Prepared for Abbey Green. Prepared by Beeson Engineering and MESCO Building Solutions. Revised June 2010.
11199	<i>Operations Manual, Abbey Green Recycling Center, 5030 Overdale Road, Winston-Salem, North Carolina.</i> Prepared for Abbey Green. Prepared by Kleinfelder. Revised June 2010.
11200	<i>Revised Operations Manual, Abbey Green Recycling Center, 5030 Overdale Road, Winston-Salem, NC.</i> Approval letter prepared by Patricia A. Wylie, Industrial Hygiene Consultant, Health Hazards Control Unit. July 2010.
11220	<i>North Carolina General Warranty Deed, Grantor – Dogwood Development and Management Company, LLC, Grantee – Overdale Holdings, LLC.</i> Dated October 6, 2009.
11740	<i>Operations Manual, Abbey Green Recycling Center, 5030 Overdale Road, Winston-Salem, North Carolina.</i> Prepared for Abbey Green. Prepared by Kleinfelder. Revised June 2010, revised August 2010, revised September 2010.
15211	<i>Operations Manual, Abbey Green, Inc, Permit 34-24.</i> Prepared by Abbey Green Inc. Revised September 2011.
15540	<i>Leachate Collection System.</i> Prepared by Abbey Green Inc. October 2011.
15541	<i>Overall Site Plan.</i> Prepared for Abbey Green, Inc. Prepared by Beeson Engineering. November 2011.
19456	<i>Operations Manual, Abbey Green Recycling Center, 5030 Overdale Road, Winston-Salem, North Carolina, Abbey Green, Inc., Permit 34-24, August 7, 2013.</i> Prepared by Abbey Green, Inc. Revised August 2013
25646	<i>Operations Manual, Abbey Green Recycling Center, 5030 Overdale Road, Winston-Salem, North Carolina, Abbey Green, Inc., Permit 34-24, December 31, 2015.</i> Prepared by Abbey Green, Inc. Revised 2013.
25699	<i>Overall Site Plan.</i> Prepared by Abbey Green, Inc. Prepared by Beeson Engineering. Revised February 2016.

PART VII: MISCELLANEOUS SOLID WASTE MANAGEMENT

Not Applicable

- End of Section-

ATTACHMENT 2
CONDITIONS OF PERMIT TO CONSTRUCT

PART I: GENERAL FACILITY

Not Applicable

PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)

Not Applicable

PART III: CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL UNIT(S)

Not Applicable

PART IV: INDUSTRIAL LANDFILL UNIT(S)

Not Applicable

PART V: LAND CLEARING AND INERT DEBRIS LANDFILL UNIT(S)

Not Applicable

PART VI: TRANSFER STATION/TREATMENT & PROCESSING UNIT(S)

Not Applicable

PART VII: MISCELLANEOUS SOLID WASTE MANAGEMENT

Not Applicable

- End of Section -

ATTACHMENT 3
CONDITIONS OF PERMIT TO OPERATE

PART I: GENERAL FACILITY

1. 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.
2. 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.
3. 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.
4. 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, unless otherwise approved by the Section, and made available to the Section upon request during normal business hours.
5. All forms, reports, maps, plans, and data submitted to the Section must include an electronic (pdf) copy.
6. Open burning of solid waste is prohibited. Fires must be reported to the Regional Waste Management Specialist within twenty-four (24) hours of the occurrence with a written notification to be submitted within fifteen (15) calendar days of the occurrence. Fire lanes must be maintained and passable at all times. Dimensions of the fire lanes must be coordinated with the Fire Marshall having jurisdiction over the site.
7. Processing of materials, shredding, or grinding must not take place at the facility unless approval has been granted under the special use permit and a revised operations plan has been submitted to the Solid Waste Section.
8. The facility must be adequately secured by means of gates, chains, berms, fences, or other security measures approved by the Section to prevent unauthorized entry.
9. Interior roadways must be of all-weather construction and maintained in good condition.
10. Signs must be posted at the entrance to the facility that state that no hazardous waste or liquid waste can be received at the facility; and that provide information on dumping procedures, the hours of operation, the permit number, and other pertinent information. Traffic signs or markers must be provided as necessary to promote an orderly traffic pattern to and from the discharge area and to maintain efficient operating conditions.

11. A responsible individual trained and certified in facility operations must be on-site at all times during all operating hours of the facility, in accordance with G.S. 130A-309.25. An attendant must be present to oversee the loading and unloading of waste.

PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)

Not Applicable

PART III: CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL UNIT(S)

Not Applicable

PART IV: INDUSTRIAL LANDFILL UNIT(S)

Not Applicable

PART V: LAND CLEARING AND INERT DEBRIS LANDFILL UNIT(S)

Not Applicable

PART VI: TRANSFER STATION/TREATMENT & PROCESSING UNIT(S)

3424-TRANSFER-2010, Abbey Green Inc.

12. The Permit to Operate shall expire July 30, 2025. Pursuant to 15A NCAC 13B .0201(g), no later than January 30, 2025, the owner or operator 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.
13. Pursuant to NCGS 130A-294(a2), 15A NCAC 13B 0.0201(g) and 15A NCAC 13B 0.0206(b), the Permit to Operate is subject to a limited review by July 30, 2020. The permittee must request the five-year limited review on or before January 30, 2020. A five-year limited review of a 10-year permit includes review of the operations plan, closure plan, post-closure plan, financial assurance cost estimates, environmental monitoring plans and any other applicable plans for the facility.
14. The Permit to Operate approves the continued operation of the facility.
15. The facility is permitted to receive solid waste as defined in NCGS 130A -290 (35).
16. The facility must meet the requirements of 15A NCAC 13B.0105. In addition, the following, at a minimum, must not be accepted at the facility; hazardous waste, liquid wastes, regulated medical waste, sharps not properly packaged, regulated-asbestos containing material as defined in 40 CFR 61, PCB waste as defined in 40 CFR 761.
17. This facility is permitted to receive municipal solid waste generated within; Alexander, Alamance, Cabarrus, Catawba, Davidson, Davie, Forsyth, Guilford, Iredell, Mecklenburg, Randolph, Rockingham, Rowan, Stokes, Surry, Union, Yadkin, and Wilkes Counties.
 - a. Construction and Demolition Debris Waste must be transported for disposal to; Old Salisbury Road CDLF (Permit No. 3412-CDLF-1995), *Overdale Road Transfer Station* (Permit No. 3416T-TRANSFER-), Gold Hill Road C&D Debris Landfill (Permit No.

- 7606-CDLF-2001), A-1 Sandrock C&D Landfill (Permit No. 4117-CDLF-2008), High Point C&D Debris Landfill (Permit No. 4116-CDLF-2012), Rowan County Landfill (Permit No. 8003-MSWLF-1988), Surry County MSWLF (Permit No. 8606-MSWLF-1998), Davidson County CDLF (Permit No. 2906-CDLF-), or Uwharrie Env. Reg. Landfill (Permit No. 6204-MSWLF-1995).
- b. Municipal Solid Waste must be transported to; Hanes Mill Road Landfill (Permit No. 3402-MSWLF-1997) or Overdale Road Transfer Station (Permit No. 3416T-TRANSFER-).
 - c. The US Green Building Council allows the incineration of Processed Residual, if used in waste-to-energy plants, to be credited toward the requirements of Platinum LEED certification. The most convenient and economical facilities which are permitted to burn C&D Processed Residual are in nearby states. In some projects Abbey Green may elect to ship Processed Residual out-of-state to comply with LEED requirements. These facilities are The Wheelabrator Waste-to-energy plant, 3809 Elm AV, Portsmouth, VA (VA Permit #TRO61018); the Pratt Waste-to energy facility 1800A Sarasota Parkway, Conyers, GA (GA permit # 2631-247-0037-V-03-0).
 - d. Proposed changes to the service area and/or the disposal facility must be approved by the Section and will constitute a permit modification and be subject to the applicable permitting fee.
18. The permittee must not knowingly dispose of, or accept for transfer for subsequent disposal, municipal solid waste that is generated within the boundaries of a unit of local government that by ordinance:
- b. Prohibits generators or collectors of municipal solid waste from disposing of that type or form of municipal solid waste.
 - c. Requires generators or collectors of municipal solid waste to recycle that type or form of municipal solid waste.
19. The permittee must develop, and use, a training and screening program at the facility for detecting and preventing unauthorized wastes from being accepted at the facility. 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.
20. The facility must not cause nuisance conditions.
- a. The tipping floor and loading area must be maintained in a clean, sanitary condition at all times and must be cleaned at least daily.
 - b. Waste must only be deposited on a “tipping floor” or directly into a transfer container. Waste may be stored on the “tipping floor” after operating hours, in accordance with the approved plans, Attachment 1, List of Documents for the Approved Plan.
 - c. Waste may be stored on-site, in leak proof transfer trailers, with watertight covers, a maximum of 5 working days. Storage of the waste must not cause any nuisance, such as odor or attraction of vectors.

- d. Effective vector control measures must be applied at all times to control any potential vectors including flies, rodents, insects, and other vermin.
 - e. Control measures must be utilized to minimize and eliminate visible dust emissions and blowing litter.
 - i. Fugitive dust emissions are prohibited.
 - ii. Windblown materials must be collected by the end of the day and no windblown material may be allowed to leave the facility boundary.
21. All water that comes in contact with solid waste, including vehicle wash-down water, is leachate and must be captured and properly treated before release to the environment.
- a. The leachate control system, such as floor drains, leachate collection devices, sanitary sewer connections and leachate storage tanks, must be operational during facility operations.
 - b. The tipping floor must drain away from the building entrance and into the leachate collection system.
22. The permittee must at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures.
23. In the event of noncompliance with the permit, the permittee must take all reasonable steps to minimize releases to the environment, and must carry out such measures as are reasonable to prevent adverse impacts on human health or the environment.
24. The permittee must maintain a record of the amount of solid waste received at the facility, including daily records of waste received and origins of the loads. Scales must be used to weigh the amount of waste received. The daily records are to be summarized into a monthly report for use in the required annual reports.
25. 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 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 receiving disposal facility.
 - v. By diversion to alternative management facilities.
 - c. The completed report must be forwarded to the Regional Environmental Specialist for the facility by the date due on the prescribed annual facility report form.
 - d. 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

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

26. 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. Closure and Post-Closure cost estimates and financial instruments must be updated annually.

PART VII: MISCELLANEOUS SOLID WASTE MANAGEMENT

General Conditions

27. Wastes received and product stored shall be maintained in reasonably sized piles with adequate fire breaks and lanes in accordance with the approved operational plans and the pertinent rules.
28. 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 shall be contained on-site or properly treated prior to discharge.
29. These areas shall be operated and maintained with sufficient dust control measures to minimize airborne emissions and to prevent dust from becoming a nuisance or safety hazard.
30. These areas shall be operated and maintained in a manner so as to minimize odors, prevent the creation of a nuisance, potential health hazard, or a potential fire hazard.
31. Effective vector control measures shall be applied as necessary to control flies, rodents, insects, or vermin.
32. The facility must manage all operations according to all applicable statutes and rules of the State of North Carolina.

Operational Conditions – White Goods

33. The facility is permitted to receive white goods as defined in North Carolina General Statute Article 9, Chapter 130A-290(44).
34. The facility must manage white goods according to all applicable statutes and rules of the State of North Carolina.
35. White goods collection areas shall provide for the proper removal of chlorofluorocarbon refrigerants.

Operational Conditions – Wood Grinding, for Boiler Fuel

36. The facility is permitted to receive land clearing waste as defined in 15A NCAC 13B, Rule .0101(23).
37. The facility is permitted to receive wooden pallets constructed of unpainted and untreated natural wood.
38. The facility is not permitted to receive yard trash as defined in 15A NCAC 13B, Rule .0101(56).

39. The facility must manage the storage and grinding of wood, for boiler fuel, according to the Operation Plan included in Attachment 1, "List of Documents for the Approved Plan". This document is included in the approved plan. Any revisions to the approved plan shall be approved by the North Carolina Division of Waste Management (DWM), Solid Waste Section, prior to implementation.

Operational Conditions – Drywall Grinding

40. The facility must manage the storage and grinding of drywall according to the Operation Plan included in Attachment 1, "List of Documents for the Approved Plan". This document is included in the approved plan. Any revisions to the approved plan shall be approved by the North Carolina Division of Waste Management (DWM), Solid Waste Section, prior to implementation.

Operational Conditions – Asphalt Shingles Grinding

41. The facility must manage the storage and grinding of asphalt shingles according to the Operation Plan included in Attachment 1, "List of Documents for the Approved Plan". This document is included in the approved plan. Any revisions to the approved plan shall be approved by the North Carolina Division of Waste Management (DWM), Solid Waste Section, prior to implementation.

Operational Conditions – Inert Debris Pulverizing

42. This facility is permitted to receive "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.
43. This facility is permitted to receive "Asphalt" in accordance with NCGS 130A-294(m).
44. The facility must manage the storage and pulverizing of inert debris and asphalt according to the Operation Plan included in Attachment 1, "List of Documents for the Approved Plan". This document is included in the approved plan. Any revisions to the approved plan shall be approved by the North Carolina Division of Waste Management (DWM), Solid Waste Section, prior to implementation.

Mobile Home Deconstruction

45. Storage of mobile homes, recyclable materials and deconstruction activities shall take place only in the designated mobile home deconstruction area, which shall be a graded area within the facility.
46. All mobile homes must be deconstructed within 45 days from acceptance at the facility. The date of receipt at the landfill shall be posted on the mobile home or its frame.
47. All material not planned for recycling will be placed in an appropriate approved disposal container before the end of the day in which deconstruction takes place.
48. Records shall be kept at the facility in accordance with the approved plan.
49. Mobile homes may be accepted for deconstruction from the facility's approved service area.

Type 1 Composting

50. This unit may receive only yard waste, silvicultural waste, untreated and unpainted wood waste.
51. This unit shall be operated in accordance with the approved plan and the operational requirements of 15A NCAC 13B .1406
52. Final product shall meet the label requirements of 15A NCAC 13B .1407(g).

- End of Section -

ATTACHMENT 4
CONDITIONS OF PERMIT FOR CLOSURE

PART I: GENERAL FACILITY

Not Applicable

PART II: MUNICIPAL SOLID WASTE LANDFILL UNIT(S)

Not Applicable

PART III: CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL UNIT(S)

Not Applicable

PART IV: INDUSTRIAL LANDFILL UNIT(S)

Not Applicable

PART V: LAND CLEARING AND INERT DEBRIS LANDFILL UNIT(S)

Not Applicable

PART VI: TRANSFER STATION/TREATMENT & PROCESSING UNIT(S)

Not Applicable

PART VII: MISCELLANEOUS SOLID WASTE MANAGEMENT

Not Applicable

- End of Conditions -