CDM

Fac/Perm/Co ID #	Date	Doc ID#
2616	8/1/11	DIN 14632

Cumberland County, North Carolina

Wilkes Road Yard Waste Facility Treatment and Processing Permit

January 2006

Permit

CDM
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Raleigh, North Carolina 27612
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January 31, 2006

APPROVED
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION
DATE 7/24/06 BY TL

Mr. Ted Lyon
North Carolina Department of Environment and Natural Resources
Solid Waste Section
Composting & Land Application Branch
401 Oberlin Road, Ste. 150
Raleigh, NC 27605

Subject: Cumberland County, North Carolina
Wilkes Road and Yard Waste Treatment and Processing Facility
Permit Amendment – Operations Plan
CDM Project No. 2724-37922
Response to Comments

Dear Mr. Lyon:

This letter has been prepared in response to the North Carolina Department of Environment and Natural Resources (NCDENR) technical review letter dated December 7, 2005 for the above referenced project.

In order to assist in the Solid Waste Section's review of this response letter, this submittal has been formatted to present the NCDENR's comment (in italics type) followed immediately by Camp Dresser & McKee's (CDM's) response.

We trust these responses and associated support documentation are sufficient for your review. If you have any additional questions, please do not hesitate to call. We appreciate your assistance in reviewing this Permit Amendment for the Wilkes Road and Yard Waste Treatment and Processing Facility.

Very truly yours,

NORTH CAROLINA PROFESSIONAL SEAL 022126 ENGINEER MICHAEL BRINCHEK

W. Michael Brinchek, P.E.
Camp Dresser & McKee

1/31/2006

cc: B. Howard, CCSWD
M. Sanford, CDM
J. Wiseman, CDM
File: 2724-~~37922~~
39722

Comment 1: *The application indicates that material may remain unprocessed for 45 to 60 days. There does not appear to be an indication of the length of time "each of the materials are expected to remain on site prior to processing and removal to market or disposal".*

Response: Section 2.2 of the Permit has been revised to include the length of time each material is expected to remain on site prior to processing and removal to market or disposal.

Comment 2: *The site plan still does not indicate where wood chips are proposed to be colored and coloring wood chips is not included in the operations plan. The fact that the dye is non hazardous does not mean a contingency plan is not necessary for spills of the dye in liquid or powdered form.*

Response: Section 2.2 of the Permit has been revised to indicate where the wood chips will be colored. Section 2.8.1.1 has been included to provide a contingency plan in the event of a dye spill.

Comment 3: *Record keeping forms were not found in Appendix D and the operation plan does not indicate when the annual reports are due.*

Response: Section 2.9 has been revised to include when the reports are due and a copy of the record form and annual report are attached in Appendix D

Comment 4: *The product screen is not located on the site plan.*

Response: The product screen is mobile and does not remain in the same location; however it generally remains in the landscape material processing area, which is identified on the site plan.

Comment 5: *Wetlands have been delineated on the site plan. However, the permitting guidelines included in the application, as Appendix A, indicate that a facility not be located where seasonal wetness is within 12 inched of the soil surface. This is not necessarily consistent with wetlands*

Response: Groundwater elevations or depths to seasonal wetness were not established for the current operating units prior to beginning facility operations. The County's current plans are to continue using the operating units as designated by this Permit without expansion. Should the County plan to expand operations into adjacent areas other than specified by the Permit, a modification will be

submitted to NCDENR for review and approval , which will include both the proposed expansion area and any determined potentiometric contours or identified seasonal wetness located within a few feet of the ground surface.

Comment A: *Low carbon nitrogen wastes such as grass clippings are not to be managed at a treatment and processing facility. This should be specified in the operation plan*

Response: Section 2.2 has been revised to include low carbon nitrogen wastes as "unacceptable" materials.

Comment B: *Section 2.1 of the operations plan indicates that there are five units of the facility. These five units are not consistent with the labels on the site plan and the site plan does not indicate an area for processed materials or products*

Response: Section 2.1 and the site plan have been modified to consistently represent the same units. Processed materials will remain in the same general areas as the raw materials. The Permit has been modified to represent this.

Comment C: *The application indicates that the facility could receive as much as 200 tons of material per day, but does not indicate how long this amount of waste may be received without exceeding capacity. Facility capacity should be given in cubic yards and tons.*

Response: Section 2.2.2 has been included to provide the approximate facility capacity in cubic yards and tons. The application does not indicate how long 200 tons of material per day can be received before exceeding capacity since the capacity is a function of the outflow of processed materials, which is highly variable and dependent upon market fluctuations.

Comment D: *The operation play should address operation of the household drop off area since it will be part of the permitted area.*

Response: Section 2.2.4 of the Permit has been revised to include the operation of the household drop off area.

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Section 1
Introduction

1.1 Purpose

This plan has been prepared for the Cumberland County Yard Waste Facility Permit Amendment. The purpose of this plan is to provide Cumberland County with a manual that will serve as an operations guide for the Wilkes Road Yard Waste Facility. This operations plan has been prepared in accordance with the treatment and processing guidance document and the North Carolina Solid Waste Rules 15A NCAC 13B .0300. A copy of the guidance document is included as Appendix A. The North Carolina Solid Waste Rules 15A NCAC 13B .1400 were also referenced for general information. This plan addresses the following issues:

- Facility operations;
- Materials received and processed;
- Management of non-recyclable materials;
- Uses for recycled materials;
- Fire Marshall Certification;
- Equipment utilized to process and handle materials;
- Contingency plans; and
- Records indicating the inflow and outflow of material.

1.2 Facility Location

The Wilkes Road Yard Waste Facility (Facility) is located off Wilkes Road (S.R. 1007) west of the intersection of Wilkes Road and N.C. Highway 87. The facility is sited on approximately 51 acres of Cumberland County property. Figure 1-1 shows the general location of the facility. A legal description of the property is provided by copy of the property deed included in Appendix B.

1.3 Facility Description

The facility was permitted on July 1, 1986, by the North Carolina Department of Environment and Natural Resources, Division of Waste Management, Solid Waste Section (SWS) under Permit No. 26-F, as a Demolition Landfill. A copy of Permit No. 26-F is included as Appendix C. The 10 acre Demolition Landfill was temporarily capped using a 1-foot-thick compacted soil cover in August, 1992 by the County, for possible future materials mining.

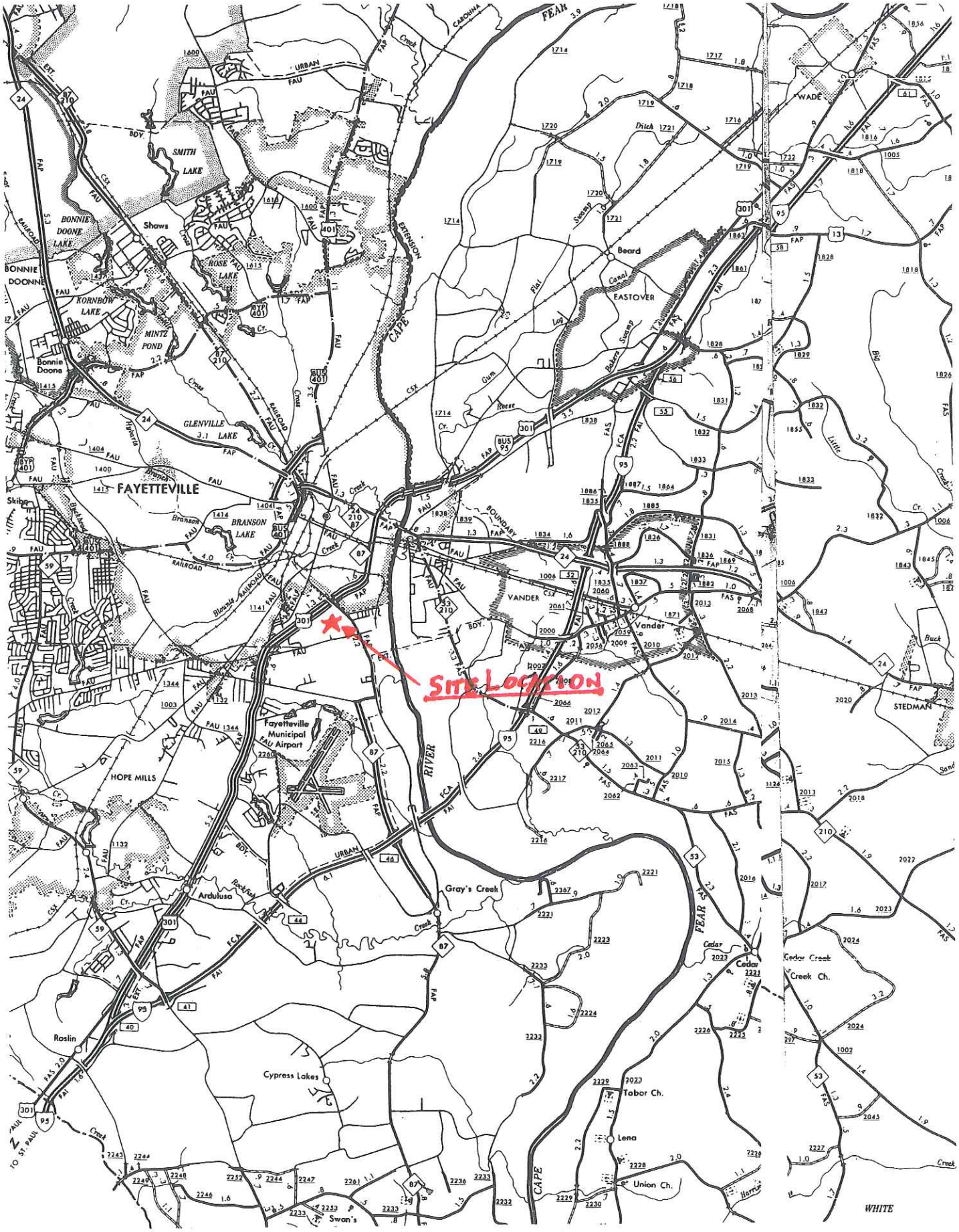


Figure No. 1–1
Vicinity Map

CDM

The current yard waste treatment and processing unit, sited within the facility limits, began operations on August 1, 1995 and is located adjacent to and east of the Demolition Landfill.

The treatment and processing unit includes the following:

- A scale house;
- Stockpile areas for residential yard waste and commercial land clearing and inert debris;
- Stockpile area for wooden pallets;
- Overflow stockpile area;
- Landscape material processing area; and
- Equipment Storage and Household Drop-off Area.

A site plan showing the approximate location of these components and the Demolition Landfill is included in Figure 1-2. An aerial photograph showing a 1,000-foot boundary around the Facility is included as Figure 1-3.

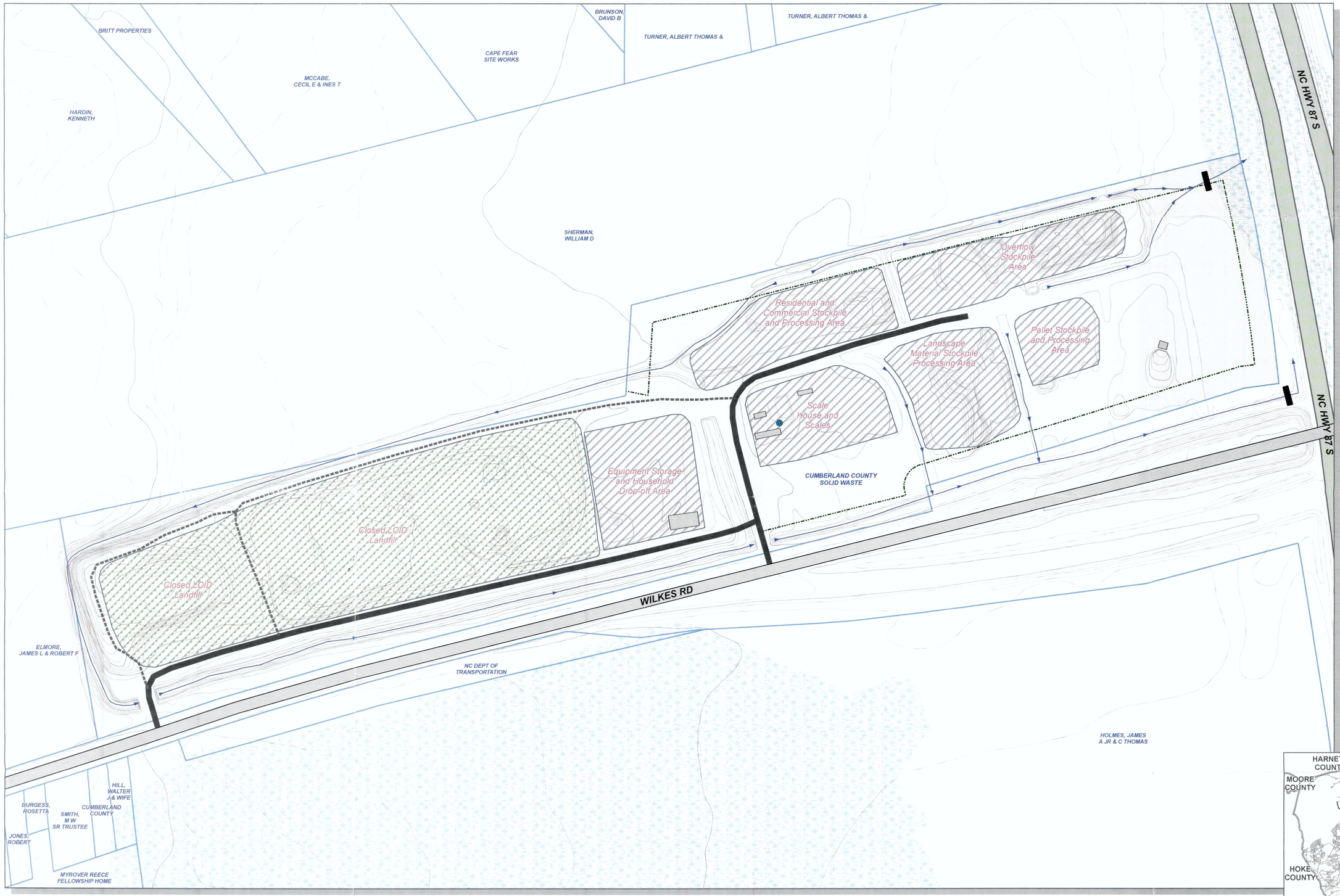
1.4 Demolition Landfill Closure Verification

On July 5, 2005 CDM performed depth checks using a hand auger in 42 locations, to verify the 1-foot-thick compacted soil cover. Areas that did not meet the minimum 1-foot-thick requirement were addressed by the County and re-verified by CDM on September 26, 2005 to confirm the minimum 12-inch-thick cover requirement.

1.5 Service Area

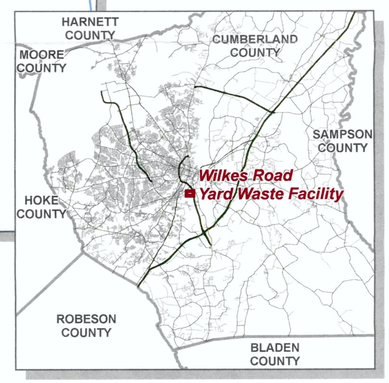
The facility currently serves all Cumberland County residents and commercial establishments. Cumberland County, approximately 658 square miles in size, includes the municipalities of Falcon, Fayetteville, Godwin, Hope Mills, Linden, Spring Lake, Stedman and Wade.

FIGURE 1-2
SITE MAP
WILKES ROAD YARD WASTE FACILITY
CUMBERLAND COUNTY
NORTH CAROLINA



Legend

- Water Service
- Site Drainage
- Intermediate Contour
- Index Contour
- Site Road
- Trail
- Paved Road
- Expressway
- Delinated Wetland
- Property Lines
- Approx LCID Landfill (Closed)
- Existing Structure
- 50 Foot Buffer
- Building
- Rock Dam



Plot Date: January 25, 2006

1 inch equals 100 feet

100 50 0 100 200 300 400 500 Feet

25 12.5 0 25 50 75 100 125 150 Meters

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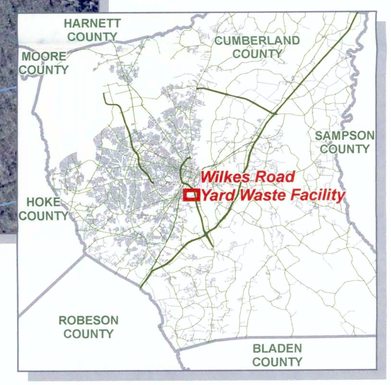
FIGURE 1-3
AERIAL MAP
WILKES ROAD YARD WASTE FACILITY
CUMBERLAND COUNTY
NORTH CAROLINA

N

Overflow Stockpile Area
Residential and Commercial Stockpile and Processing Area
Pallet Stockpile and Processing Area
Landscape Material Stockpile Processing Area
Scale House and Scales
Equipment Storage and Household Drop-off Area
CUMBERLAND COUNTY SOLID WASTE
Closed LCID Landfill
Closed LCID Landfill

S EASTERN BLVD
WILKES RD
E JENKINS ST
WILMINGTON HWY
NC HWY 87 S

Legend
- Water Service
- Site Drainage
- Site Road
- Trail
- Paved Road
- Expressway
- Delinated Wetland
- 1000 Foot Property Buffer
- Property Lines
- Approx LCID Landfile (Closed)
- Existing Structure
- 50 Foot Buffer



Plot Date: January 25,2006

1 inch equals 200 feet

200 100 0 200 400 600 800 1,000 Feet
50 25 0 50 100 150 200 250 Meters

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Section 2
Operations Plan

2.1 Facility Description

The Wilkes Road Yard Waste Facility (Facility) operates as a receiving, processing, and hauling facility for land clearing debris, yard waste, and wooden pallets. This facility is owned by Cumberland County, North Carolina and operated by the Cumberland County Solid Waste Management Department. The facility is comprised of the following units: (1) a stockpile and processing area for residential yard waste and debris and commercial yard waste and land clearing debris (2) a stockpile and processing area for wooden pallets, (3) an overflow storage area for raw residential yard waste and debris and commercial yard waste and land clearing debris for emergency events, (4) a landscape material stockpile and processing area, and (5) equipment storage area and household drop-off area.

2.2 Waste Acceptance and Processing Procedures

Commercial and residential haulers transporting raw waste materials enter the Facility off Wilkes Road and are directed to the weigh station. The weigh station attendant determines the weight of material to be unloaded and the associated costs to the hauler. The weigh station attendant also determines if the waste material is deemed "acceptable material" or "unacceptable material" for disposal. Haulers carrying materials that cannot be processed at the facility, "unacceptable material," are instructed to haul the material to the Ann Street Landfill for disposal. "Unacceptable material" shall include low carbon nitrogen wastes such as bulk grass clippings, construction demolition debris, etc.

Acceptable materials including land clearing debris, yard waste and wooden pallets will be received and unloaded at the appropriate stockpile location. Pile sizes of acceptable materials shall not exceed 30 feet in width and 15 feet in height to avoid spontaneous combustion and to maintain a manageable pile size in the event of a fire.

Raw land clearing debris and yard waste materials, and wooden pallets will be processed by the County personnel using a mobile tub grinder. The tub grinder has a built-in color system, which may be used during the processing of wooden pallets. Raw materials will be processed in areas previously designated on Figure 1.2, with dye processing occurring at the designated pallet stockpile and processing area.

Processed clearing debris and yard waste materials are stockpiled for either hauling or further processing as screened landscape material. Screened landscape material is processed and stockpiled within the landscape material processing area as previously designated on Figure 1.2. Unscreened grinding materials, commonly referred to as "boiler material", are removed from the site by commercial users at no cost. Screened landscape material and grinding material from wooden pallets are sold to residential and commercial haulers.

Under normal operating conditions, clearing debris and yard waste materials are processed the same day they are received by the facility. During high volume and production periods, raw clearing debris and yard waste materials may remain unprocessed up to 40 days. Depending on market fluctuations and demand, processed clearing debris and yard waste materials may remain on-site up to 90 days.

Under normal operating conditions wooden pallets are stockpiled until a sufficient amount of raw materials are available for processing (approximately 500 cy). Wooden pallets may remain unprocessed up to 60 days. Depending on market fluctuations and demand, processed wood chips may remain on-site up to 90 days.

2.2.1 Estimated Quantities of Waste

The facility receives and processes on average approximately 100 tons of total waste per day, with a current capacity to receive and process approximately 150 tons per day. Approximately one ton of all incoming waste material per day is composed of wooden pallets. The remaining material is residential yard waste and debris and commercial yard waste and land clearing debris.

In response to an emergency event, as described in Section 2.8, the facility is capable of processing and/or storing up to approximately 200 tons of materials per day.

2.2.2 Facility Capacity

The facility capacity for both processed and unprocessed residential yard waste and debris and commercial yard waste and land clearing debris is approximately 25,000 cy. Assuming unprocessed yard waste material and debris has an average specific weight of 300 lbs/cy and processed yard waste material and debris has an average specific weight of 500 lbs/cy, the facility capacity for yard waste material and debris will vary approximately between 3,750 tons and 6,250 tons depending upon the proportions of processed and unprocessed material.

The facility capacity for wooden pallets is approximately 6,400 cy. Assuming wooden pallets have a specific weight of 185 lbs/cy the facility capacity for wooden pallets is approximately 590 tons.

2.2.3 Uses of Recycled Materials

The recycled materials at the facility consist of screened and unscreened grinded material (mulch) from the land clearing debris and yard waste material, and wood chips from the wooden pallets. Unscreened grinded materials from land clearing debris and yard waste materials are provided as "boiler fuel" to commercial haulers at no cost. Screened materials and wood chips are sold to commercial and residential haulers.

2.2.4 Management of Non- Recyclable Materials

All non-recyclable materials generated by the facility including incidental trash and household wastes are disposed of in approved containers (roll-off bins) located at the household drop-off area and hauled to the Ann Street Subtitle D Landfill for final disposal. Roll-off containers are emptied at a minimum frequency of once every two days.

2.3 Operating Hours

The facility is open from 8:00 am to 4:00 pm Monday through Saturday, except on County holidays. Materials processing is generally conducted during hours of operation. In response to an emergency event as described in Section 2.8, the hours of operations remain the same, but materials processing may be extended to handle the additional materials until conditions return to normal.

2.4 Operating Equipment

The facility utilizes the following equipment on a daily basis:

1 – Excavator
1 – Dozer
1 – Track Loader
1 – Wheel Loader (6 cylinder)
1 – Wheel Loader (3 cylinder)
1 – 5,000 Gallon Water Tanker
2 – Tub Grinder
1 – Power Screen

2.5 Operating Personnel

The Facility currently utilizes a staff composed of 5 personnel. One employee operates the weigh station, while the other four employees are utilized in equipment operation and processing of the waste material.

2.6 Drainage Control

Surface water runoff shall be diverted from the operational areas. Excessive surface water creates difficulties for maneuvering equipment. Temporary diversion berms and drainage channels shall be employed to divert water from the operational areas as necessary. In addition, all operational areas shall be properly graded to prevent ponding of surface water and allow surface water runoff in a controlled manner. Grading will also be performed as required to deter ruts from occurring around stockpiles.

2.7 Erosion and Sedimentation Control

Adequate sediment control measures shall be utilized to capture and control sediment prior to discharging off-site and to prevent excessive on-site erosion of slopes and

roadways. Disturbed areas not being utilized for stockpiling or processing of materials shall remain properly stabilized in accordance with the NCDENR Sedimentation and Erosion Control Guidelines.

Surface water runoff passing through the operational areas shall be diverted to a series of existing on-site channels, previously identified in Section 1, Figure 1-2 of this report. The existing channels convey stormwater to the northeast and southeast corners of the site where it is treated by rock dams prior to discharging from the site. The rock dams were installed by the County at the direction of NCDENR and in accordance with the NCDENR Sedimentation and Erosion Control Guidelines.

2.8 Contingency Plans

At times when major occurrences or incidents happen outside the control of the facility personnel that drastically effect the operations of the facility, an operational contingency plan is enacted. Contingency Plans are necessary in the case of equipment failures, fire events, medical emergencies, or catastrophic events to maintain a minimal level of operational efficiency.

2.8.1 Equipment Failures

In the case of equipment failures, the County utilizes in-house maintenance personnel and local supplier representatives. If the maintenance of a piece of equipment requires a significant amount of time to resolve in the opinion of the personnel, then equipment can be utilized from the Ann Street Subtitle D Landfill to minimize downtime. If equipment failure ceases current operations, such as failure of the tub grinder, the County can utilize the overflow stockpile area until the equipment is repaired. If additional equipment is required, equipment is borrowed from the Ann Street Subtitle D Landfill.

2.8.1.1 Tub Grinder Failure – Dye Spill

In the event of a dye spill the County will discontinue dye operations. Impacted soils will be removed and temporarily disposed into a roll-off container and carried to the Subtitle D landfill for final disposal. The impacted area will be properly stabilized in accordance with NCDENR Sedimentation and Erosion Control guidelines. Following cleanup, the cause of the spill will be determined. In the event of a spill due to equipment malfunction, the equipment will be repaired.

2.8.2 Fire Events

In the event of a fire the standard procedure is for facility personnel to immediately contact the Cumberland County Fire Department via the County's 911 calling system. Once the local fire department is contacted, facility personnel respond to the situation using the water tanker and onsite hydrant, until the fire department arrives.

2.8.3 Medical Emergency

When medical emergencies occur, local emergency medical personnel are contacted via the Cumberland County 911 calling system and other emergency contact numbers. The standard procedure is to notify immediately the proper agencies and authorities of medical emergencies at this facility. There are emergency supplies located in the onsite first aid kit that are used for immediate response to these types of emergencies until properly trained personnel arrive.

2.8.4 Catastrophic Events

The County has operation plans in place to deal with catastrophic events that affect the increase of material disposed at the facility. For natural disasters, the County can accept up to 200 tons of acceptable waste material per day. Material not processed is temporarily placed in the overflow stockpile and is processed once operations return to normal.

Should a catastrophic event damage the working area, the facility will remain in operation under a revised plan as follows. A staging area shall be created to facilitate the removal of debris and impediments from the normal work area to allow the facility personnel and equipment to eventually return to that area and resume daily activities as normal as possible.

2.9 Record Keeping

Facility personnel maintain computerized records for material inflow and cash and charges received by the facility. Total annual quantities are compiled and an annual report is prepared each year, on or before August 15, summarizing yearly quantities and activities and submitted to the North Carolina Department of Environment and Natural Resources (NCDENR). A copy of the County's annual report and record keeping form is provided in Appendix D.

2.10 Facility Access and Security

2.10.1 Security

Incoming raw waste material enters the facility through the entry point located near the rear of the facility. All vehicles disposing of waste at the facility enter and leave through the access control gates. All waste entering the landfill must be weighed at the scale where a full-time attendant verifies compliance with operation requirements. Unauthorized vehicle access is prevented by lockable gates at the entrance and exit and chain link fencing along the facility boundary.

2.10.2 Access Roads

Facility access roads are composed of crushed stone paving and maintained in good condition.

2.10.3 Signage

The State of North Carolina General Statutes state that a sign providing information on disposal procedures, operation hours, tipping fee, permit number, and other pertinent information shall be clearly posted at the site entrance. Additionally, signs shall be clearly posted stating that no hazardous or liquid waste can be received. A sign is provided that displays the facility's name and the hours of operations. The County also provides a handout to the citizens identifying all county-owned waste management sites and accepted wastes for each site. The County's website also displays information about the County's waste management sites and accepted waste materials.

2.11 Fire Marshall's Certification

See Appendix E for a copy of the Fire Marshall's Certification letter.

Appendix A
Treatment and Processing Permit Guidance

TREATMENT AND PROCESSING

Treatment and processing permits are issued by the Division of Waste Management, Solid Waste Section for facilities that receive wastes and treat or process those wastes for utilization by recycling, reclaiming, or for final disposal. Facilities that receive primarily organic wastes to be treated or processed for recycling or reuse in soil or plant related uses are normally permitted by the Composting and Land Application branch of the Solid Waste Section.

Facilities that receive wastes to be treated or processed for final disposal or uses that are not soil/plant related are normally permitted by the Permitting Branch of the Solid Waste Section. This would include facilities that receive inert debris or construction demolition waste and reuse a portion of the waste while disposing of the rest. Air curtain burners would be permitted by the Permitting Branch.

Requirements for Treatment and Processing Facilities that receive wastes to be treated for recycling or reuse in soil or plant related uses may be found in Section .0300 of the Solid Waste Management Rules and in this document. Included in this document are requirements for facility siting and operation and for permit applications. If part or all of the process results in heat being generated through biological means a permit to operate a compost facility will be required. Individuals wishing to compost should refer to the Solid Waste Compost Rules in Section .1400 of the Solid Waste Management Rules.

Technical assistance is also provided in this document on how to complete application requirements. Application requirements vary for these facilities based on what is being treated or processed and how it is being accomplished. Application forms are not used due to the variable requirements.

The following definitions will apply in this document.
"Land clearing waste" means solid waste which is generated solely from land clearing activities such as stumps, trees, limbs, brush, grass, and other naturally occurring vegetative material.
"High C: N ratio Yard trash" means solid waste resulting from landscaping and yard maintenance such as brush, tree limbs, and similar vegetative materials that has a C: N ration higher than 75.
"Untreated and unpainted wood waste" means solid waste wood material that has not been glued, treated with preservatives, painted, stained, or varnished.
"Agricultural processing wastes" means materials that are derived from agricultural products that have been through a processing or receiving facility such as tobacco dust or cotton gin trash.

Treatment and processing at facilities that receive primarily organic wastes to be treated or processed for recycling or reuse in soil-plant related industries might include activities such as:

- Grinding or chipping land clearing debris, high carbon nitrogen yardwaste, and untreated and unpainted pallets or construction wood waste into mulch or boiler fuel. Certain treated wood wastes such as particleboard may also be ground or chipped into boiler fuel.
- Land clearing debris and high carbon nitrogen ratio yard waste may be piled up and allowed to decompose through natural means.

- Certain agricultural processing wastes such as tobacco dust and cotton gin trash, as well as approved coal or wood ash, untreated and unpainted wood fibers, and wall board could also be received at a treatment and processing facility for the manufacture of soil products.

Waste products other than land clearing debris and high C: N ratio yard waste will be considered for treatment and processing facilities on a case by case basis. A variety of tests may be required to determine the if a waste can be managed at a treatment and processing facility. Testing requirements may vary significantly, depending on the waste and its source. The minimum sampling requirement will be four waste analyses from the NC Department of Agriculture Lab.

All treatment and processing facilities are required to obtain a permit to construct and operate the facility unless all the following requirements are met.

(1) Only land clearing debris, untreated and unpainted wood waste, and high C: N yard trash are managed at the facility.
(2) The facility shall be less than 2 acres in size and shall not process or store more than 6000 cubic yards of material per three month period, or have on hand at any one time a combination of waste material and finished product that exceeds 6000 cubic yards.
(3) The facility notifies the Division of Waste Management, Solid Waste Section annually of all activities and files an annual report with the Section.

Forms for Treatment and Processing notifications are available upon request. Treatment and processing notification sites are subject to all Federal, State, or Local laws, ordinances, rules, regulations, or orders, including but not limited to zoning restrictions, flood plain restrictions, wetland restrictions, sedimentation and erosion control requirements, and mining regulations.

Siting criteria for treatment and processing facilities are:
(1) Facilities shall not be located in the 100-year floodplain.
(2) Facilities or practices shall not cause or contribute to the taking of any endangered or threatened species of plants, fish, or wildlife.
(3) Facilities or practices shall not result in the destruction or adverse modification of the critical habitat of endangered or threatened species as identified in 50 CFR Part 17 which is hereby incorporated by reference including any subsequent amendments and editions. This material is available for inspection at the Department of Environment, Health, and Natural Resources, Division of Solid Waste Management, 401 Oberlin Road, Raleigh, North Carolina 27605 where copies can be obtained at no cost.
(4) A facility shall not be located where the permanent, seasonal or perched water table is located within 12 inches of the soil surface. Seasonal water table information shall be provided from hand auger borings, test pits or other suitable site specific methods that depicts seasonal groundwater depth at the site.
(5) Facilities or practices shall not cause point or non-point source pollution of waters of the state that violates assigned water quality standards.
(6) The facility shall meet the following minimum buffer requirements:
   a) 100 feet from the waste boundary to all surface waters of the state as defined in G.S. 143-212 and all property lines.
   b) 200 feet from the treatment and processing area to residential dwellings and commercial or public buildings.

c) 100 feet from water supply wells.
d) Buffer requirements may be adjusted as necessary to insure adequate protection of public health and the environment. Buffer adjustments may vary with the method of treating or processing and the material being received at the facility.
e) Setbacks and seasonal water table separations may be increased if nitrogen containing, putrescible or pathogen containing wastes are managed at the facility.

(7) The facility shall meet all requirements of any applicable zoning ordinance. In areas zoned for industrial uses horizontal setbacks may be reduced if local zoning setbacks are less and the reduction will not adversely affect the any part of the sedimentation and erosion control plan.

Operation requirements for treatment and processing facilities are:

(1) Adequate erosion control measures, structures, or devices shall be utilized to control runoff and prevent silt or nutrients from leaving the site and to prevent excessive on site erosion. The site shall be managed in such a manner as to prevent standing water on the site to prevent the attraction of vectors.
(2) Access roads shall be of all-weather construction and properly maintained.
(3) A sign shall be posted at the facility entrance showing the contact name and phone number in case of an emergency.
(4) The site shall be managed in such a manner as to avoid the attraction of vectors.
(5) Record Keeping
(6) An annual report shall be submitted to the Division of Waste Management, Solid Waste Section, by August 1st of each year for the previous July 1 through June 30.
(7) Facilities that qualify as a notification site shall annually complete treatment and processing notification form. Notification forms will be provided by the Solid Waste Section upon request.

Facilities that are required to obtain a permit shall complete the requirements of Section .0300 of the Solid Waste Management Rules and provide the following information.

1. An aerial photograph, scale 1 inch is equal to 400 feet or less, showing the area for at least 1000 feet around the proposed facility

2. A vicinity map showing the location of the proposed facility.

3. Site Plan or scale drawing, 1 inch = 100 feet or less, showing the following items:
   a. Property lines.
   b. Existing topography.
   c. Proposed grading with final grade, if the application is for a new facility.
   d. Permanent and temporary sedimentation and erosion control structures.
   e. The location of existing and proposed buildings, structures for storage of materials, monitoring or water supply wells, and utilities.
   f. Existing surface water features (ditches, ponds, swamps, etc.)
   g. Access control features (gates, fences, and earthen berms).
   h. Existing and proposed roads and the anticipated traffic flow pattern.
   i. 100 year flood plain (FEMA Flood Insurance Rate Map with site indicated on it).
   j. Adjacent land uses, including other solid waste management activities.
   k. Locations of stockpiles shown on the site plan, with proposed pile sizes, traffic lanes between piles, and types of material in each pile.

4. Facilities not previously permitted by the Division shall provide:
   a. Sedimentation and Erosion control plan with approval letter from the Division of Land Quality or appropriate local government agency. If the application is for an existing facility a letter or recent inspection report should be included from the appropriate government agency indicating that the existing plan is adequate and that all related structures are in proper working order.
   b. Letter from the appropriate agency that the proposed facility shall not cause or contribute to the taking of any endangered or threatened species of plans, fish, or wildlife.
   c. Letter from the appropriate agency stating that the site is not located in a wetland.

5. Provide a legal description of the property and a copy of the deed for the property with metes and bounds.

7. If the property is owned by an individual(s)/corporation that is not the proposed operator, notarized and signed affidavits must be provided to the Solid Waste Section from the landowners of the site indicating that the property can be used for the proposed facility.

8. An operations Plan including:
   a. A detailed narrative describing all the proposed operations that will take place at the facility including: receiving, processing, handling and storage of materials; anticipated

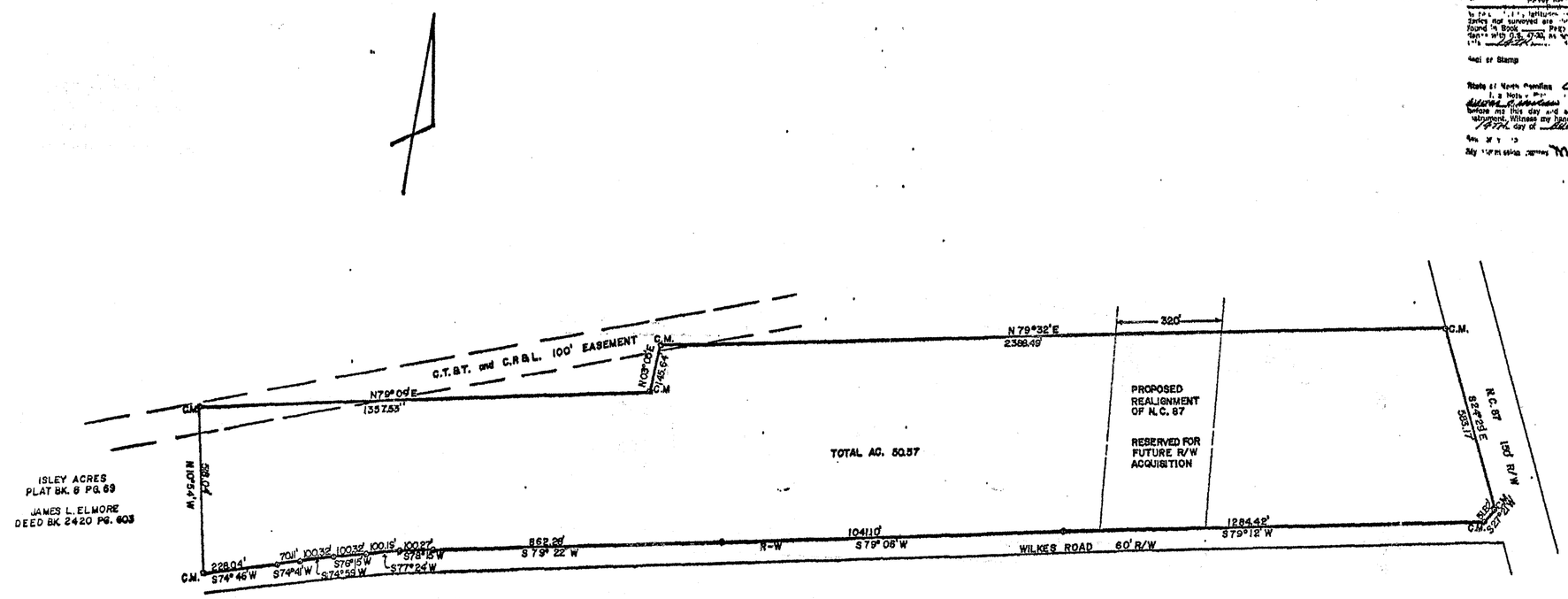
process time; length of time materials will remain on-site before and after processing; how the site will be maintained to prevent surface water from ponding and ruts from occurring around storage piles, etc.

b. A list of materials proposed to be received.
c. An estimate of how much of each type of material to be received will be processed per day or week.
d. An explanation of how non-recyclable material will be managed at the site, an estimate of how much of that material will be managed, and the name and location of the facility where such material will ultimately be disposed.
g. A list of all proposed uses of the recycled materials. Specific markets may be required with some materials.
h. A letter from the local fire marshal/chief of the appropriate fire department that has jurisdiction over this facility that an incident at this facility will be responded to with the appropriate equipment.
i. A list of all equipment to be utilized at the site for processing handling and loading of materials.
j. If any of the information in this item is considered confidential, then documents shall be stamped as such and the Solid Waste Section will handle in accordance with applicable General Statutes.
k. Contingency plans for equipment failure, fire or medical emergencies, and for poor product market conditions.
l. Records indicating the inflow and out flow of material, in tons.

h:cla/treat&pr/tr&pr3

Appendix B
Wilkes Road Yard Waste Facility
Property Deed

117



State of North Carolina CUMBERLAND County
I, Walter C. Moorman, certify that the following survey map is based on the following information:
[illegible] latitudes [illegible] 5000 [illegible] boundaries not surveyed are shown as broken lines plotted from information found in Book ____ Page ____ that this map was prepared in accordance with G.S. 47-30, as amended. Witness my hand (and stamp or seal) this 14th day of August A.D. 19 85.
Walter C. Moorman
Surveyor
L-1936
Registration Number
Seal or Stamp

State of North Carolina CUMBERLAND County
I, a Notary Public of the County and State aforesaid, certify that Walter C. Moorman [illegible] surveyor, personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official stamp or seal, this 14th day of August A.D. 19 85.
Margaret L. Goodwin
Notary Public
My commission expires March 20, 1990

NORTH CAROLINA REGISTERED LAND SURVEYOR SEAL L-1936 WALTER C. MOORMAN

NOTARY PUBLIC CUMBERLAND COUNTY

North Carolina, Cumberland County
The foregoing or attached certificate of Margaret L. Goodwin
Notary Public, is certified to be correct.
This instrument was presented for registration and recorded in this
Office of Book 60, Page 117
This 17 day of Oct 1986 at 11:15 O'clock A.M.
Cherry B. Horne
Deputy Register of Deeds

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
NO APPROVAL NECESSARY
B. B. Isom
District Engineer
Oct. 16, 1986
Date

No Approval Required
George E. Vaughan III
Director of Planning
Cumberland County Joint Planning Board

PREPARED BY:
MOORMAN, & KIZER, INC.
FAYETTEVILLE, N.C.

COUNTY OF CUMBERLAND
WILKES ROAD REDEVELOPMENT PROPERTY

CUMBERLAND COUNTY, N.C.

SCALE: 1" = 200' DATE: AUG. 1985

60-117

Appendix C
Permit No. 26-F

PERMIT NO. 26-F

DATE ISSUED 7/1/85

STATE OF NORTH CAROLINA

DEPARTMENT OF HUMAN RESOURCES

DIVISION OF HEALTH SERVICES

P.O. Box 2091 Raleigh 27602

SOLID WASTE PERMIT

Cumberland County is hereby issued a permit to operate a Demolition Landfill located on Highway 87 and Wilkes Road, in accordance with Article 9, Chapter 130A, of the General Statutes of North Carolina and all rules promulgated thereunder and subject to the conditions set forth in this permit. The facility is located on the below described property.

BEGINNING at a concrete monument in the western margin of N. C. 87 (150 foot wide right-of-way), said concrete monument being located at the northern end of a site easement at the intersection with the northern margin of Wilkes Road (60 foot wide right-of-way), and proceeding thence for a first call from the western margin of N. C. 87, South 27 degrees 21 minutes West 51.82 feet to a concrete monument located in the northern margin of Wilkes Road, the southern end of said site easement; thence along the northern margin of Wilkes Road, South 79 degrees 12 minutes West 1284.42 feet to a point approximately in the middle of N. C. S. R. 2211 (60 foot wide right-of-way) where it intersects Wilkes Road; thence continuing along the northern margin of Wilkes Road, South 79 degrees 06 minutes West 1041.10 feet to a point located approximately in the middle of N. C. S. R. 2302 (60 foot wide right-of-way) where it intersects the northern margin of Wilkes Road; thence continuing along the northern margin of Wilkes Road with the following calls and distances: South 79 degrees 22 minutes West 862.28 feet; South 78 degrees 15 minutes West 100.27 feet; South 77 degrees 24 minutes West 100.19 feet; thence South 76 degrees 15 minutes West 100.32 feet; thence South 74 degrees 59 minutes West 100.32 feet; thence South 74 degrees 41 minutes West 70.11 feet; thence South 74 degrees 46 minutes West 228.04 feet to a concrete monument; thence leaving Wilkes Road, North 10 degrees 54 minutes West 518.04 feet to a concrete monument located in the Carolina Tel. and Tel. and CP&L 100 foot wide easement; thence North 79 degrees 09 minutes East 1357.53 feet to a concrete monument; thence North 03 degrees 05 minutes East 145.64 feet to a concrete monument located in said 100 foot wide easement; thence North 79 degrees 32 minutes East 2388.49 feet to a concrete monument located in the western margin of N. C. 87; thence along the western margin of N. C. 87, South 24 degrees 29 minutes East 583.17 feet to the point and place of beginning and containing 50.57 acres, more or less.

William L Meyer

William L. Meyer, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

PERMIT NO. 26-F

DATE ISSUED 7/1/86

SOLID WASTE PERMIT

Property Description (continued)

1. This permit may be subject to review at an administrative hearing upon petition of anyone whose legal rights, privileges, and duties may have been affected by the issuance thereof.

2. This permit shall not be effective unless the certified copy is filed in the register of deeds' office, in the grantor index under the name of the owner of the land in the county or counties in which the land is located. After recordation, the certified copy shall be returned to the Solid and Hazardous Waste Management Branch and shall have indicated on it the page and book number, date of recordation and registrar's seal.

3. When this property is sold, leased, conveyed or transferred, 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 for demolition waste, only.

4. The following requirements shall be met prior to receiving solid waste at the site:

   a. Site preparation in accordance with operational plan.

   b. Site inspection made by a representative of the Division of Health Services.

5. This solid waste disposal site is permitted to receive stumps, limbs, leaves, concrete, masonry, wood, uncontaminated earth, and demolition and construction wastes and other wastes that may be specifically approved by the Solid and Hazardous Waste Management Branch.

6. The operation of this facility shall conform to Rule .0507 of the Solid Waste Management Rules.

7. An erosion control plan is submitted and approved that complies with 15 NCAC 4 (Sedimentation Pollution Control Law).

Appendix D
Record Keeping Forms

JULY'04 THRU JUNE'05

REVISED 7/19/05

(TONNAGES)

	ANN STREET LANDFILL			WILKES RD LANDFILL		
	C&D	Landfilled Subtitle "D"	Tires	Miscellaneous	Yard Waste	Tires
County Sites	7.30	14,148.46	82.37	5.01	3,019.94	66.92
County Facilities	653.90	2,116.27		7.47	84.60	0.24
Fayetteville						
Garbage		43,475.64	16.98		16,277.11	10.44
Commercial	3,289.67	1,523.30			1,074.41	
Rubble-Misc.	907.99	452.74		1.30		
Private Haulers						
Garbage	576.61	36,489.63	40.06	63.77	4,067.77	39.78
Commercial	17,013.49	38,125.77	1,920.08		5,064.75	2,015.48
Industrial	519.13	8,041.65				
Rubble - C & I	5,216.97	17,956.10		403.86		
Rubble - Mis.	1,601.28	878.01		64.72		
Hope Mills						
Garbage		5,508.09			712.94	1.40
Commercial	7.96	762.68				
Rubble-Misc.	4.93	5.25				
Spring Lake						
Garbage		660.86	5.77			
Commercial	26.66	1,881.61			47.04	
Rubble-Misc.	3.56	356.82				
Stedman						
Garbage	1.34	194.85				
Rubble-Misc.	0.42					
Other Government						
Garbage	128.91	592.41	41.12	2.56	281.15	57.02
Rubble-Misc.	293.58	261.73		27.15		
Fort Bragg						
Garbage						
Commercial	9.12	61.09				
Rubble-Misc.	1.84	304.25				
Pope AFB						
White Goods	1,067.18					
Storm						
TOTALS-TONS	**31,331.84**	**173,797.21**	**2,106.38**	**575.84**	**30,629.71**	**2,191.28**

Average Tons Per Day:	**103.07**	**571.70**	**Average Tons Per Day:**	**102.65**
Days of Operation:	**304**	**304**	**Days of Operation:**	**304**
Container Boxes Pulled:		**7,203**	**# of Vehicles (Wilkes Rd):**	**22,508**
# of Vehicles (Ann St.):		**74,391**	**# of Veh. H/H Garbage:**	**12,639**

Revenue Totals:

ANN STREET		C & D	WILKES ROAD	
$133,500.05	Cash	$358,469.09	$53,031.41	Cash
$1,843,067.94	Charges	$427,662.51	$41,968.81	Charges
$ 1,976,567.99	**Total**	**$ 786,131.60**	**$ 95,000.22**	**Total**

Grand Totals:

Tons=	240,632.26
Cubic Yards =	962,529.05
Revenue=	**$2,857,699.81**

CUMBERLAND CO
Shackelford

Local Government

State of North Carolina

Department of Environment, and Natural Resources
Division of Waste Management &
the Division of Pollution Prevention and Environmental Assistance

Solid Waste Management Annual Report
July 1, 2004--June 30, 2005

COMPLETION AND SUBMISSION OF THIS REPORT WILL FULFILL THE ANNUAL REPORTING MANDATE TO THE STATE AS REQUIRED BY G.S. 130 A-309.09A.

Please submit this form to the county manager by **AUGUST 15, 2005**

If you have questions or concerns, please contact the Solid Waste Section at 919-508-8400, the Division of Pollution Prevention and Environmental Assistance at 919-715-6500, or your Regional Waste Management Specialist.

Person Completing This Report: Darlene W Smith Title: Admin Coord
Mailing Address: 698 Ann St City Fayetteville Zip 28301
Phone: (910) 321-6914 Date:
Fax: (910) 321-6840 E-Mail: darlenesmith@co.cumberland.nc.us

General Instructions

Please remember that the time period for the report is JULY 1, 2004, through JUNE 30, 2005. Please check "No" if you have nothing to report for a specific question.

1. What is **your local government** waste reduction goal as stated in your local 10-year solid waste management plan?
   10 % by 2006, and 10 % by 2013

2. Did your local government have a Recycling Coordinator or similar position for FY 04-05? ☒ Yes ☐ No
   Name Recycling Coordinator (if different from person completing this report.)
   Name/Title: Janice Albert Title: Safety/Environmental Prog. Coord.
   Address: 698 Ann St City Fayetteville Zip 28301-8106
   Telephone 910-321-6912 Fax 910-321-6840 E-mail jalbert@co.cumberland.nc.us

3. Did your local government have a Solid Waste Director or similar position for FY 04-05? ☒ Yes ☐ No
   If Yes, Name: Robert L Howard Title: Director/Solid Waste Management
   Address: 698 Ann st City Fayetteville Zip 28301-8106
   Telephone 910-321-6913 Fax 910-321-6840 E-mail robert.howard@co.cumberland.nc.us
   2

4. Did your local government have **dedicated or part-time** Enforcement Staff for FY 04-05? ☒ Yes ☐ No
   If Yes, Name: Debra Albert & James Barefoot Title: Solid Waste Inspector III
   Address: 698 Ann st City Fayetteville Zip 28301-8106
   Telephone Fax E-mail

5. Did your local government manage, provide or contract for any solid waste services in FY 2004-05 (e.g., collection, disposal, recycling, mulching, composting)? ☒ Yes ☐ No
   If No, the report is complete, please turn the report into your County Manager.

Part I. Full Cost Accounting

6. What were the full costs of your local government's solid waste management program? To the best of your ability, please respond in the chart below. The following information will be needed to determine your cost per household and cost per ton.

a. Solid Waste Collection: Number of households served 91,796
b*. Solid Waste Disposal: Total tonnage disposed by the local government 124,772
c. Reduction, Reuse Recycling: Number of households served by 3R program 91,796
d*. Reduction, Reuse Recycling: Total tonnage of recyclables recovered by the local government 5843
e. Mulching/Composting: Number of households served by the program 91,796
f*. Mulching/Composting: Total tonnage handled by mulching/composting program 24,078

To calculate the total cost per ton in the table below, **DO NOT** add the cost per ton of the 4 program categories; the total cost of all programs should be divided by the total tonnage managed by the local government.
Equation: Total cost per ton = [(program cost 1+2+3+4) ÷ (b+d+f)]

Note: For additional assistance with this section, please contact your manager or finance director.

	1. Solid Waste Collection	2. Solid Waste Disposal**	3. Reduction, Reuse And Recycling	4. Mulching, Composting and Other Programs	Total Cost
Program Cost*		See Attached			
Cost per Household***					
Cost per Ton					

* Item is needed to calculate cost per household and/or costs per ton.

** Estimate either 1. Full-cost of disposal (landfill, transfer station, etc.) including applicable closure costs, or 2. The tipping fee paid by your local government to a disposal facility.

*** If you are collecting commercial/industrial solid waste or recyclables, you do not need to complete the cost per household section.

Overall Program Cost from above (1+2+3+4) = _____

Total Tonnage Managed (b+d+f) = _____

7. If your local government contracts for solid waste or recycling services, please report the annual contract amount.

$ _____ for solid waste services per year.
$ _____ for recycling per year.
Or
$ _____ combined contract (solid waste and recycling)

According to *GS 130A-309.08*, local governments are required to conduct full cost accounting annually and to develop a system to inform users of such costs.

Part II. In-House Programs

The following questions pertain to in-house activities, that is waste reduction activities/programs that are available to local government employees.

8. Did your local government have an in-house waste reduction program in place? ☒ Yes ☐ No
9. If yes, indicate what types of waste reduction activities were in place:

☒ Source reduction/toxicity reduction
☒ Reuse
☒ Recycling

10. Did your local government have any program/policy encouraging or requiring local agencies to purchase products with recycled content? ☒ Yes ☐ No

Part III. Public Programs

Source Reduction/ Reuse

*Source Reduction is defined as **avoiding the creation of waste by reducing the amount or toxicity of waste before it is generated,** i.e., duplex copying and/or printing or other similar action that avoids the generation of solid waste. **Source reduction is not recycling.** Reuse programs target items that are in adequate condition or of value such that they do not warrant disposal. Reuse includes programs such as paint exchanges or pallet exchanges.*

11. Did your local government have a backyard composting program? ☐ Yes ☒ No
12. If Yes, please check all that apply:

☐ Promotion
☐ Education
☐ Demonstration site(s)
☐ Training
☐ Bin distribution/sales
Number of Bins distributed? _____

13. Did your local government have a source reduction program targeted to the public? ☒ Yes ☐ No
14. If Yes, please indicate the types of activities promoted:

☐ Grasscycling
☐ Xeriscaping (landscaping with less water)
☐ Junk mail reduction
☐ Enviroshopping (shopping for source reduction)
☒ Use of non-toxics in homes/businesses
☐ Other _____

15. Did your local government offer a waste exchange or reuse program? ☒ Yes ☐ No
16. If Yes, please indicate which programs were available to the public:

☐ Swap shop/shed
Number of sheds in use? _____
☐ Paint exchange
Number of gallons recovered? _____
☐ Waste exchange
☐ Pallet Exchange
☒ Other selling metal, C&D waste, furniture, Misc. items

Recyclables Recovery

After source reduction, recycling is the State's next highest priority for managing solid waste. The following questions deal with your local government's programs for recovering recyclables

17. Which of the following responses best describes your recyclables recovery activities for the period July 1, 2004 through June 30, 2005?

☒ My local government **DID operate or contract** for a recyclables recovery program.

☐ My local government **DID NOT operate or contract** for recyclables recovery **BUT DID participate** in a recyclables recovery program sponsored by another local government. (Please identify the public agency/organization responsible for its operation; **then go to Part IV on page 7.**)

With what local government did you participate? _____

☐ My local government **DID NOT operate, contract or participate** in a recycling program. **(Go to Part IV on page 7.)**

If you **DID operate or contract** for a recyclables recovery program, please indicate the type of program in operation and specifics about your program.

CURBSIDE RECYCLING PROGRAM

18. Curbside Recycling Program ☐ Yes ☒ No

19. Who collected the recyclable materials for your local government's curbside program?
- ☐ Local government employees
- ☐ Private contractor _____
- ☐ Other (please specify) _____

20. Please answer the following questions about your community.
- a. Total number of households? _____
- b. Number of households served by curbside recycling? _____
- c. Please estimate the **number of households** that regularly participate in the program? _____ households

21. What sector(s) of your community was served by the program?
- ☐ Residential
- ☐ Commercial
- ☐ Industrial

22. If you checked commercial or industrial in question 21, please indicate the number of accounts served. _____

23. How frequently were the curbside recyclables collected?
- ☐ Once a week
- ☐ Twice a month
- ☐ Every two weeks
- ☐ Other _____

24. Please describe the containers used.
- ☐ Bins
- ☐ Blue bags
- ☐ Multi-bin system
- ☐ Roll-out carts

DROP-OFF RECYCLING PROGRAM

25. Drop-off Recycling Program ☒ Yes ☐ No

26. Who collected the recyclable materials for your local government's drop-off recycling program?
   - ☒ Local government employees
   - ☐ Private contractor _____
   - ☐ Other (please specify) _____

27. Please estimate the number of households served. 91,796

28. Please estimate the number of households that actively use your local government's drop-off **recycling** program. 50% households

29. What sector(s) of your community was served by the program?
   - ☒ Residential
   - ☐ Commercial
   - ☐ Industrial

30. How many drop-off locations did you provide for the citizens in your jurisdiction? Number of sites 17

31. How many of these locations were staffed with attendants?
   - ☒ All
   - ☐ Some (please identify how many) _____
   - ☐ None

MIXED WASTE PROCESSING

32. Mixed Waste Processing – Did your local government utilize mixed waste processing? ☐ Yes ☒ No
Note: Mixed waste processing requires the use of a permitted facility where select **recyclables** are removed from **municipal solid waste**.

OTHER RECYCLING PROGRAMS

DO NOT include in-house activities here. List only programs operated or contracted for by the local government.

33. Please identify all "Other" programs available during FY 04-05. (check all that apply and indicate tonnages on the next page)

- ☐ Electronics recycling
  - ☐ Permanent ☐ Annual or scheduled collection days ☐ Part of HHW program
- ☐ School-based programs
- ☐ Scheduled collection drives (quarterly, once a year, etc.)
- ☐ Curbside white goods collection
  - Were white goods delivered to the county for marketing? ☐ Yes ☐ No
- ☐ Commercial collections _____
- ☐ Industrial collections _____
- ☐ Other programs (please specify) _____

34. Does your local government provide on-site recycling services at multi-family housing complexes?
☐ Curbside ☐ Drop-off ☒ No, but residents have access to city/county drop-off sites

35. Please estimate the percentage of complexes receiving services.
☒ 0 to 25 percent ☐ 25 to 50 percent ☐ 50 to 75 percent ☐ 75 to 100 percent

Recycling Tonnages

a. For ALL the recycling programs operated or contracted for by your local government, please provide material TONNAGES (or tonnage estimates) for each material collected for recycling for the period JULY 1, 2004, through JUNE 30, 2005. Please combine tonnages for All "Other" Programs.

b. **Do NOT report YARD WASTE, TIRES, USED OIL, LEAD ACID BATTERIES, or ANTI-FREEZE tonnages on this page.**

c. Please report materials collected in tons only. (One ton equals 2,000 lbs.) For example, 2,500 lbs. should be reported as 1.25 tons. Please only extend numbers to two decimal places (x.xx).

PROGRAM	Curbside		Drop-off		Mixed Waste Processing		All "Other" Programs		Total Tons
	Collect? ✓ if Yes	Tons	Collect? ✓ if Yes	Tons	Collect? ✓ if Yes	Tons	Collect? ✓ if Yes	Tons	
GLASS:									
Clear	☐		☒	8.89	☐		☐		
Brown	☐		☒	8.98	☐		☐		
Green	☐		☒	10.11	☐		☐		
Mixed									
PLASTIC:									
PETE #1	☐		☐		☐		☐		
HDPE #2	☐		☐		☐		☐		
Other plastic	☐		☐		☐		☐		
Mixed plastic	☐		☒	2.00	☐		☐		
METAL:									
Aluminum cans	☐		☒	9.75	☐		☐		
Steel cans	☐		☐		☐		☐		
White goods	☐		☒	1,297.25	☐		☐		
Other metal	☐		☒	3,101.80	☐		☐		
PAPER:									
Newsprint (ONP)	☐		☒	353.85	☐		☐		
Cardboard (OCC)	☐		☒	176.36	☐		☐		
Magazines (OMG)	☐		☒	64.23	☐		☐		
Office paper	☐		☐		☐		☐		
Mixed paper (MPW)	☐		☐		☐		☐		
Other paper	☐		☒	10.34	☐		☐		
WOOD:									
Pallets (refurbished, reused, fuel)	☐		☒	652.90	☐		☐		
Other wood - DO NOT list wood tons here from yard waste pg. 8	☐		☒	.35	☐		☐		
OTHER MATERIALS:									
Textiles	☐		☐		☐		☐		
Electronics	☐		☐		☐		☐		
C&D Recovery	☐		☒	1.12	☐		☐		
	☐		☐		☐		☐		
	☐		☐		☐		☐		
	☐		☐		☐		☐		
Commingled tons (check all items collected above)	☐		☐		☐		☐		
TOTAL TONS:				5,697.94					

* In addition we recycled printer ink cartridges - 52 each

Part IV. Special Wastes

The following questions concern your local government's provisions for managing waste materials that require special handling or are banned from landfilling.

Used Oil and Oil Filters

36. Did your local government provide public collection sites for used oil? ☒ Yes ☐ No
37. If Yes, how many sites? 17
38. Number of gallons collected? 11,300 gallons (per year).
39. Did your local government provide public collection sites for used oil filters? ☐ Yes ☒ No
40. If Yes, how many sites? _____
41. Amount collected _____ filters or _____ barrels or _____ tons.

Antifreeze

42. Did your local government provide public collection sites for antifreeze? ☒ Yes ☐ No
43. If Yes, how many sites? 1
44. Number of gallons collected? _____ gallons (per year). Included with oil (above)

Lead Acid Batteries

45. Did your local government provide public collection sites for lead acid batteries? ☒ Yes ☐ No
46. If Yes, how many sites? 17
47. Number of batteries collected? 4,311 batteries

Household Hazardous Waste (HHW)

48. Did your local government provide for the collection of pesticide containers (e.g., NCDA program)? ☒ Yes ☐ No
49. Did your local government offer a latex paint collection program separate from the collection of household hazardous waste? ☐ Yes ☒ No
50. Did your local government provide specifically for the collection of household hazardous waste? ☒ Yes ☐ No

If Yes, please respond to the following questions:

a. Was it collected at permanent site? ☒ Yes ☐ No
b. Quantities collected (in **pounds**) 18,280 pounds
c. Frequency of collection 2 times a month
d. Contractor(s) involved Clean Harbor
e. Estimated cost of the program $22,095

Part V. Mulching, Composting and C&D Management

Yard waste may not be disposed in sanitary landfills, incinerators, or in unpermitted sites and it is illegal to burn. Composting and mulching are popular management options. Mulched materials are yard wastes such as wood chips or leaves that have been ground or chipped for eventual decomposition. Composted materials are thoroughly decomposed, and the final product has a dark soil-like appearance.

51. Does your local government collect yard waste at curbside? ☐ Yes ☒ No
52. Does your local government provide a drop-off site for yard waste collection? ☒ Yes ☐ No
53. Where is collected yard waste taken? 771 Wilkes Rd (Wilkes Rd Yard Waste Facility)

54. What quantities of materials were managed in your program? **Provide information in TONS OR CUBIC YARDS of material received.** For conversion purposes, use 400 lbs./cubic yd.

Destination	Check box if destination is used	Organic Debris (yard waste, brush, limbs, etc.)	
		Tons	Cubic Yards
End user (to farmer or home-owner)	☐		
Your own local government's mulch or compost facility	☒	31,206	
Other public mulch or compost facility	☐		
Private mulch or compost facility	☐		
Land clearing and inert debris landfill (LCID)	☐		
Total		31,206	

YARD WASTE MANAGEMENT FORMULA: Use this formula for each truck you use in your yard waste management program. Put the grand total for all trucks in the appropriate boxes above. *Ex. 10 yd³ truck x 3 days/wk x 16 wks = 480 yd³*

_____ X _____ X _____ = _____ *yd³*

Size of truck (in yards) | Avg. no. of times truck fills each week | # of weeks truck is used during year | TOTAL

55. Did your local government provide either of the following? ☐ C&D recycling ☒ C&D salvage/reuse

If yes, check all materials that were included (please report tonnages in tonnage table on page 6):
☐ Clean wood ☒ Brick, concrete, etc. ☐ Sheetrock ☐ Vinyl siding ☐ Metals ☒ Other

56. Does your local government have an ordinance regulating the management of construction and demolition waste? ☐ Yes ☒ No

Part VI. Solid Waste Collection & Disposal

57. Please estimate the population of your community 302,965

58. Please complete the following table regarding your solid waste collection (curbside or drop-off programs) and disposal program.

Sector	Who Collects Solid Waste? Insert Letter - see codes below	How is Solid Waste Collected? Insert No. - see codes below
Residential	A	3
Commercial	NA	
Industrial	NA	

Who Collects Solid Waste?
a. Local government employees.
b. By contract.
c. Franchise haulers.
d. Local government not involved in provision of service.

How is Solid Waste Collected?
1. Once a week at household.
2. Twice a week at household.
3. Convenience center/ greenbox.
4. As needed or by request.
5. Daily.
6. Other. Please specify.

59. If collected at the household, where is solid waste picked up? ☐ Rear yard ☐ Curbside

60. What type of curbside collection method is used?
☐ Fully Automated ☐ Semi-automated ☐ Manual ☐ Don't know

Part VII. Solid Waste Educational Activities

61. Did **your local government** have an education program to inform the citizens specifically about solid waste management issues/activities? ☒ Yes ☐ No (If No, skip to Part VIII.)

62. Which of the following solid waste education activities did **your local government** conduct or produce? (Check all that apply.)

- ☒ Radio/TV advertisements
- ☐ Newspaper ads/articles
- ☐ Mass mailings/ utility bills, etc.
- ☐ Award program for businesses
- ☐ Grant program for businesses
- ☒ Take-home items (brochures, magnets, etc.)
- ☐ Telephone "hotline"
- ☒ Web site
- ☐ "RE 3" Campaign
- ☐ "The Recycle Guys"
- ☐ Workshops, forums, or conferences
- ☐ Public schools programs
- ☒ Special events
- ☐ Other (please specify) _____

63. Please provide your recycling website address and hotline phone number if applicable.

Website: www.co.cumberland.nc.us/swm/index.html Hotline: _____

Part VIII. Resources for Solid Waste Management

Sufficient resources available to solid waste management programs are essential for continued success of these programs. The following questions deal with resources allocated to solid waste management programs.

64. Did your local government operate an Enterprise Fund for solid waste services? ☒ Yes ☐ No
An enterprise fund is a fund for a specific purpose that is self-supporting from the revenue it generates.

65. With regards to funding mechanisms, check all that apply to your local government:

- ☒ Tipping fees
- ☐ Property taxes/general fund
- ☒ Per household charges
- ☒ Volume/weight-based fees (e.g. PAYT)
- ☒ Sale of recyclables
- ☐ Grants
- ☒ Tire tax
- ☒ White goods tax
- ☒ Other. (interest, land rental, room rental, etc.)

66. If applicable, please provide your FY 04-05 household fees. *(E.g., a. $45.00 per year per household for solid waste)*

a. $ 48.00 per household per year for solid waste
b. $ ____ per ____ per ____ for recycling
c. $ ____ per ____ per ____ availability fee
d. $ 48.00 per household per year total charge (a + b + c = d)

67. Did your local government have a Pay-As-You-Throw program for residential garbage? (Residents are charged by weight or volume for the amount of trash disposed.) ☐ Yes ☒ No

Comments

We would appreciate your comments about this report or other matters regarding solid waste management in North Carolina. Thank you for your time. Attach additional sheets if needed.

Assistance

The Division of Pollution Prevention and Environmental Assistance's Local Government Assistance Team is ready to assist you in any way we can. Please visit our Web site at www.p2pays.org/localgov or e-mail us at lgteam@ncmail.net

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650 copies of this public document were printed at a cost of $ 406.16, or $0.625 per copy

CUMBERLAND COUNTY SOLID WASTE MANAGEMENT FOR FY04-05

EXPENDITURES BY COST CENTER

July, 2004 Thru June, 2005

ACCOUNT NAME	OBJECT #	TOTAL EXPENDITURES	4606 ANN STREET	4607 WILKES ROAD	4608 CONT. SITES	4609 TRANS-PORTATION	4610 HHW/ PLANNING	4613 WHITE GOODS	4614 C & D	4611 MAINT	4602 ADMIN	TOTAL
TELEPHONE	3445	8,606	0	502	4,376	0	1,788	0	0	95	1,845	8,606
PHOTOCOPIER CHARGES	3450	667					0				667	667
AMORTIZATION-LEACHATE	345-A	0	0	0	0						0	0
AMORTIZATION-CLOSURE SUBTI	345-B	0	0	0	0						0	0
AMORTIZATION-POST CLOSURE	345-C	0	0	0	0						0	0
PRINTING	3455	969	0	0	0	0	0	0	0	0	969	969
CFC Removal	346-K	0	0	0	0	0	0	0	0	0	0	0
RENT EQUIPMENT	3462	65,901	56,697	2,120	4,544	0	261	0	0	1,413	866	65,901
RENT LAND	3464	5,200			5,200	0	0	0	0	0	0	5,200
RENT TELEPHONE	3465	0	0	0	0	0	0	0	0	0	0	0
REFUND GARBAGE FEE	3468	6,948		0			0			0	6,948	6,948
BCH TIPPING FEES	3469	0	0	0		0				0	0	0
TRAVEL	3470	1,140	0	0	453	235	0	0	0	32	419	1,140
TRAINING	3474	1,332	30	0	0	30	597	0	0	0	675	1,332
UTILITIES	3480	50,855	10,331	4,016	12,808	0	432	3,765	0	10,710	8,794	50,855
ENCUMBERED OPERA	3499	9,847	6,400		102		0				3,346	9,847
CONTINGENCY OPERATING	3903	0	0	0	0	0	0	0	0	0	0	0
C.O. BUILDINGS	3602	0	0	0	0	0	0	0	0	0	0	0
C.O. CARS AND TRUCKS	3603	17,144	0	0	17,144	0	0	0	0	0	0	17,144
C.O. EQUIPMENT	3610	26,545	0	0	26,545	0	0	0	0	0	0	26,545
C.O. OTHER IMPROVEMENTS	3650	0	0	0	0	0	0	0	0	0	0	0
ENCUMBERED C.O.	3699	537,777	0	537,777	0	0		0	0	0		537,777
TRANSFER GEN FD 101	3880	257,456								257,456		257,456
ENGINEER FEE	3747	0	0									0
CONSTRUCTION	3791	0	0									0
PRINC LEASE	5736	0	0		0	0		0		0		0
INTER LEASE	5737	0	0		0	0		0		0		0
SUBTOTAL		**4,081,306**	**874,381**	**1,075,027**	**572,015**	**384,702**	**106,684**	**204,695**	**68,101**	**386,986**	**408,715**	**4,081,306**
MAINTENANCE SUPPORT			96,747	85,137	65,788	102,551	17,414		15,479			
ADMINISTRATIVE SUPPORT			114,440	89,917	44,959	85,830	10,218	10,218	16,349	36,784		
TOTAL		**4,081,306**	**1,085,568**	**1,250,081**	**682,761**	**573,084**	**134,316**	**214,913**	**99,929**	**423,771**		
TONNAGE			**203,660**	**33,397**	**17,318**	**19,434**		**1,067**	**30,265**			
COST PER TON			**$5.33**	**$37.43**	**$39.43**	**$29.49**		**$201.38**	**$3.30**			

# HH:	91,794
TONS:	124,772
TONS PER HH:	1.36

CUMBERLAND COUNTY SOLID WASTE MANAGEMENT FOR FY04-05

July, 2004 Thru June, 2005

EXPENDITURES BY COST CENTER

ACCOUNT NAME	OBJECT #	TOTAL EXPENDITURES	4606 ANN STREET	4607 WILKES ROAD	4608 CONT. SITES	4609 TRANS-PORTATION	4610 HHW/ PLANNING	4613 WHITE GOODS	4614 C & D	4611 MAINT	4602 ADMIN	TOTAL
NO. OF PERSONNEL		53	8	4	16	6	3	5	1	2	9	53
SALARIES		1,618,700	235,584	120,933	404,385	216,861	78,970	129,037	17,347	63,517	352,065	1,618,700
OVERTIME	1220	5,892	1,977	249	942	811	0	1,098	254	389	171	5,892
UNEMPLOYMENT INSURANCE	1850	0	0	0	0	0	0	0	0	0	0	0
RECLASSIFICATIONS	1990	0	0	0	0	0	0	0	0	0	0	0
SALARY ADJUSTMENT	1991	0	0	0	0	0	0	0	0	0	0	0
EMPLOYEE BONUS	1995	0	0	0	0	0	0	0	0	0	0	0
JANITORIAL SUPPLIES	2110	3,340	763	231	806	175	145	24	16	518	662	3,340
UNIFORMS	2120	11,999	1,569	644	3,961	1,073	418	881	218	1,913	1,323	11,999
MEDICAL SUPPLIES	2395	217	29	0	68	37	0	20	0	62	0	217
FUEL VEHICLES	2510	249,668	77,748	75,955	4,133	61,856	4,009	18,128	0	6,226	1,613	249,668
OFFICE SUPPLIES	2601	3,832	0	0	0	0	0	0	0	0	3,832	3,832
COMPUTER HARDWARE	299A	6,097	0	0	0	0	0	0	0	2,759	3,338	6,097
DEP SUPPLIES/MATERIALS	2992	29,733	3,570	1,850	6,238	1,891	1,329	3,492	368	4,661	6,334	29,733
MISC FURNITURE/EQUIP	2994	46,572	0	0	30,720	0	0	11,582	0	4,271	0	46,572
COMPUTER SOFTWARE	2995	0									0	0
SURVEYING	3120	5,950	5,950	0	0	0	0		0	0	0	5,950
CONSULTANT	3154	0	0									0
MEDICAL EXPENSES	3204	1,700	207	0	643	207	0	436	207	0	0	1,700
C & D EXPENSES	3320											
SW COVER MATERIAL	3324	206,456	171,476	0	0	0	0	0	34,979	0	0	206,456
STORM WATER	3325	1,368	960	180							228	1,368
WASTE PETROLEUM DISPOSAL	3326	182			0		182					182
POST CLOSURE	3327	0	0									0
CONTRACTED SERVICES	3390	164,227	98,994	4,292	25,560	8,276	8,596	0	14,712	2,135	1,661	164,227
CONTRACTED SERV-TIRES	3397	267,970	75,876	192,094		0	0	0	0	0	0	267,970
PROCUREMENT CARD	3399	2,525		0	892	892					740	2,525
ADVERTISING	3401	264	0	0	0	0	0	0	0	0	264	264
DUES AND SUBSCRIPTIONS	3406	705	282	0	0	282	0	0	0	0	141	705
INDIRECT COSTS	3410	0	0	0	0	0	0	0	0	0	0	0
MISCELLANEOUS	3419	2,101	639	400	7	130	0	20	0	680	226	2,101
INSURANCE & BONDS	3420	67,182	10,268	6,844	2,623	9,435	4,800	19,440	0	9,564	4,208	67,182
M/R BUILDINGS	3430	15,260	1,871	1,367	5,937	0	120	363	0	1,811	3,791	15,260
M/R EQUIPMENT	3433	257,801	104,531	124,805	12,723	0	0	7,363	0	6,913	1,466	257,801
M/R RADIOS	3436	1,880	353	0	0	825	49	342	0	145	166	1,880
M/R VEHICLES	3438	115,665	8,274	766	1,206	78,801	4,989	8,705	0	11,314	1,608	115,665
MAINT SERVICE CONTRACTS	3439	3,284	0	0		2,883	0	0	0	401	0	3,284
POSTAGE	3440	351		0		0	0	0	0	0	351	351

Appendix E
Fire Marshall Certification

JUN 3 0 2004

Pearce's Mill Fire Department

2998-A Gillespie Street
Fayetteville, NC. 28306
(910) 425-5881

To whom it May Concern,

June 25, 2004

Wilkes Road Land Fill is in the Pearces Mill fire district. And the Pearces Mill Fire Department is able to get in the gates after hours. There are two hydrants, one is a 2-inch hydrant within the gates, and one is a 6-8 inch hydrant outside the gates. The Landfill has a 5,000 Gallon taker on site, an Excavator, and other equipment to fight fire with. If you have any questions, feel free to contact me at the number below.

Sincerely,

Tracy Smith

Tracy Smith
Deputy Chief
Pearces Mill Fire Department
(910) 425-5881