

WARREN COUNTY SOLID WASTE MANAGEMENT PLAN

Three Year Update

JULY 1, 2012 – JUNE 30, 2022

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Introduction

This update to the 10-year Solid Waste Management Plan is used as a reference in keeping abreast of the progress being made by the County in its Solid Waste Management Program. Solid waste management has placed a great financial burden on the Local County Government, therefore; this is a valuable review to summarize actions taken and to solicit the Warren County Board of Commissioners' advice and support concerning those actions which must be taken in the future. This report is also used to keep the plan current and provide a means to re-evaluate existing solid waste practices.

This plan was prepared in accordance with N.C. General Statute 130A-309A (b) for the purpose of meeting local solid waste needs and protecting public health and the environment. The sections of the plan are ordered as listed in the General Statute.

The planning area for the Solid Waste Management Plan includes Warren County and the municipalities of Warrenton, Norlina and Macon.

Warren County's long-range vision is to provide disposal capacity, waste collection services, and waste reduction programs to all members of the County at an equitable price. The elimination of improper disposal of waste and expanded waste reduction opportunities are included in the vision. To achieve this vision, the following long-range goals are listed below.

Solid Waste Management Area Goals

- Manage all aspects of solid waste disposal in a manner that will protect the public's health and maintains a clean and attractive environment.
- Provide everyone in the County with waste disposal capacity and waste reduction opportunities.
- Increase the efficiency and cost-effectiveness of the solid waste program.
- Meet the established local waste reduction goals.
- Decrease improper waste disposal and promote recycling.

I. Geographic and Solid Waste Stream Evaluation

Geographic Area

This Solid Waste Management Plan covers Warren County and its three incorporated municipalities during the FYs 2012-2022.

The majority of Warren County's residents live in unincorporated predominately rural areas and the County is experiencing slow growth (Table 1).

Table 1: Estimated Population July 2012

Municipalities & County	Population
Norlina	1,118
Warrenton	979
Macon	119
Warren County - unincorporated areas	18,756
Total	20,972

Source: Population Figures from U.S. Census Bureau

Currently, the three governmental entities in Warren County operate separate systems of waste management. The municipalities of Macon, Norlina and Warrenton each operate household waste collection systems. The three towns bring their municipal solid waste (MSW) to the Warren County Transfer Station operated by Warren County. With the exception of Macon, the towns of Norlina and Warrenton dispose of their yard waste in their own facilities. The municipalities currently engage in minimal waste reduction activities.

Waste Stream Evaluation

Definitions of Waste Types:

Residential - generated by households (single family, multi-family, and manufactured homes)

Commercial - generated by commercial activities

Industrial - generated by industrial activities

Construction/Demolition - generated by construction and demolition activities

Inert Debris - Yard Waste, branches and stumps

Scrap Tires - Used Tires (not permitted in landfills)

White Goods - Used Appliances

During the past three years, there have not been any significant changes to the County's waste stream.

Warren County and its municipalities disposed of approximately 8704 tons of waste in FY 2010-11. The percentage estimate of the County's entire waste stream (residential, commercial, industrial, construction and demolition wastes) is shown in (Table 2).

Table 2: Estimated Waste Disposed

Type of Waste	Percent of Waste Stream
Residential	79%
Non-residential	17%
Construction	3%
Land Clearing & Inert Debris	1%
TOTAL	100%

Source: Tonnage information derived from Waste Haulers, Municipality and Landfill reports.

The planning area estimates that 79% of the waste disposal is residential waste, 17% is non-residential (commercial, industrial, and institutional), 3% is construction and demolition (C&D) waste, and 1% land clearing, inert debris.

In addition, an unknown amount of land clearing and inert debris are disposed of in a couple of privately operated land clearing notification or permitted sites.

The most prevalent materials in the residential waste stream are shown below:

Residential Waste Composition Materials

- Paper
- Cardboard
- Plastics
- Organics
- Textiles
- Glass
- Metal

Current Waste Management Efforts

1. Green Box Collection System Eliminated: The Green Box collection system, which was very unhealthy, unattractive, did not promote recycling, subject to much abuse such as disposing of illegal waste and consisted of over sixty-five (65) different collection sites, has been replaced by nine recycling/modified Convenience Centers.
2. The Solid Waste Recycling, Collection and Disposal Ordinance was written in August 1999. The new ordinance addresses recycling, littering and increased fines for illegal dumping and other offenses. The ordinance also governs any aspect of the storage, collection, transportation, recycling or disposal of solid waste. The ordinance became effective at 12:01 a.m. August 3, 1999, and supersedes and nullifies the former Ordinance for Management of Solid Waste in Warren County.
3. A permanent solid waste Transfer Station is located at the present Landfill site on Baltimore Road. The station accepts all solid waste generated in the County including land clearing and inert debris. Metals, tires and banned items have to be separated from other waste.

The collection vehicles enter the facility at the scale house where each truck is weighed. The driver is then directed to the facility where the solid waste is emptied from the collection vehicle and pushed into a transfer trailer for transport to a subtitle D Landfill located in Person County, North Carolina and Brunswick County, Virginia.

Operated by contract with Waste Industries, the Transfer Station compacts and transfers approximately 9,500 tons of waste per year out of the County. Included in the tonnage is:

- A. Approximately 3,800 tons are delivered to the Transfer Station by private industries, businesses or individuals for which a tipping fee is paid and municipalities in the County which have curbside pick-up service.
 - B. Approximately 5,525 tons are collected from the existing nine Convenience Centers which are operated by contract with Waste Industries.
4. Warren County has recycling available at the nine carefully placed Convenience Centers located throughout the County. Some recycled items include: office paper, aluminum cans, cardboard, newspapers, glass and other materials.
 5. Free waste tire disposal is provided at the Transfer Station. Tires are collected and disposed of through a private contractor.

6. White Goods drop-off collection is provided at the Transfer Station and the nine Convenience Centers located throughout the County.
7. Used oil is collected at five Convenience Centers.
8. Used batteries are collected at seven Convenience Centers.
9. A temporary storm debris staging site has been approved by the Department of Waste Management for Disaster Response.

Transfer Station Operation Plan

Introduction

Purpose

The purpose of this plan is to describe basic operations and provide general instructions to the operators of the Warren County Transfer Station in accordance with North Carolina solid Waste Management Rules (State Rules) **Section .0400 - TRANSFER FACILITIES**. This plan will address **Section .0402 - OPERATION REQUIREMENTS** of the State Rules.

Background Information

Warren County constructed a temporary Solid Waste Transfer Station in March 1994 and began operation of the facility in April 1994 to allow for cessation of landfill operations on the same property. Closure of the landfill was dictated by the Resource and Conservation Recovery Act (RCRA) Subtitle D Regulations. The Transfer Station became an integral part of the Warren County overall solid waste management strategy with the closing of the landfill. The Municipal Solid Waste Landfill Unit was closed prior to April 9, 1994, and the County arranged to have its solid waste transferred. The Transfer Station is located adjacent to the County's closed solid waste management facility on State Road 1600 south of Warrenton.

Operational Arrangements

The facility owned by Warren County (through an agreement) is operated by Waste Industries, Inc. Warren County ceased land-filling of municipal solid waste and now transfers all solid waste to the Brunswick County Landfill in Brunswick County, Virginia and the Upper Piedmont Regional Landfill located in North Carolina. The County's contract with Waste Industries, Inc., is for operations for a three-year period.

Wastewater

One of the requirements to operate the permanent facility is that the waste water generated at the facility be properly disposed. Further, wash-down water is necessary to keep the facility in a sanitary condition. Sources of wastewater are (1) tipping floor and area wash-down, (2) drippings and squeezing from the trash compaction equipment and haul trailers, and (3) rainwater that falls on the open area. By design, the area tributary to the wastewater facilities is minimized.

Service Area and Destination of Waste

The Transfer Station will serve all of Warren County and will not receive waste originating outside of the County except as may be permitted. The waste is transferred to the Brunswick County municipal solid waste landfill in Brunswick County, Virginia, or Upper Piedmont Regional located in North Carolina for final disposal.

Environmental Assessment

An environmental Assessment was submitted to the DSWM on October 21, 1994. It was recommended that a Finding of No Significant Impact (FONS) be determined.

Compliance with Rules

Operations Plan and Procedures for Loading and Unloading Trailers

(Revised December 14, 2007)

The Transfer Station consists of a standby tipping floor and an adjacent tipping area where collection trucks discharge the waste into a chute to a compactor. The town and County waste haulers, collection vehicles, and private vehicles discharge solid waste into the chute. In the event of failure or maintenance of the compactor, the waste is placed on the standby tipping floor. The transfer trailer is located adjacent and below the tipping floor and loaded by a backhoe or other available equipment directly into the trailer. The total tractor trailer weight is recorded at the existing full length scales before leaving the facility. The Operator utilizes hydraulic pump blade trailers to haul the average of 40 tons of waste per day from the facility.

The Transfer Station continues to operate in accordance with the approved Operations Plan and all Conditions of Permit specified in the NCDENR Solid Waste Section Transfer Facility Permit. No specific groundwater monitoring is required under **Section .0400 - Transfer Facilities of the North Carolina Solid Waste Management Rules**. Records are kept of weights discharged at the Transfer Station.

Incoming waste is not stored on tipping floors. If needed, an open top container or haul trailer can be dropped behind the shop in a designated area and removed within 24 hours. Under no circumstances is waste stored or left on the tipping floors overnight.

During operation, dumped waste is deposited into the chute to the compactor which is hydraulically forced into a waiting haul truck. The facility is swept and washed down at the end of the operation each day. Grates and traps at the drains are cleaned of solids before being washed down and the waste collected is disposed of properly. The wastewater pretreatment works onsite is inspected on a regular basis and the following items are checked and cleaned as needed.

- Inspect Grit Collector, remove accumulated grit and dispose of properly in container for combining with waste to be hauled to the Landfill.
- Inspect Oil/Water Separator, remove accumulated oil when level is deep enough to enable removal and dispose of properly.
- Inspect Pump Station operation.

Receivable Waste

The Transfer Station receives (municipal solid waste and commercial waste) an average of 35-40 tons per day. The station does not accept hazardous or liquid waste, asbestos, or other waste not accepted at the final disposal facility unless a separate waste determination is made and applied for. The Transfer Station receives only the waste it is permitted to receive. For "special wastes" considered for acceptance and not specifically identified in the approved Operations Plan, permission for acceptance will be required from NCDENR Solid Waste Section. An amendment to the Permit or a waste determination will also be required should conditions warrant.

We do not accept barrels and drum unless they are empty and sufficiently perforated to ensure that no liquid or hazardous waste is contained therein. All loads are screened visually and at least one percent (1%) are screened and documented for unapproved waste.

Traffic Flow and Security

Posted signage directs the traffic to the scale house when entering the facility. From there, they are directed to the tipping floor and then back to the scales. The site is fenced in and the gate is locked at the end of each work day. Signage is located at the entrance and includes the days of operation, hours, permit number, telephone and emergency contact telephone numbers, as well as unapproved materials.

Wastewater Disposal

Runoff and wash water from the tipping floor and loading area are collected and piped to an on-site pretreatment works, consisting of grit collector, oil/water separator and a pump station. Wastewater is pumped to the Town of Warrenton's municipal wastewater treatment plant. The runoff generated from daily washing of the station and from rainwater does not exceed an average of 1,200 gallons per day. Site runoff is diverted away from the tipping area. If a long-term power outage is experienced, a certified waste hauler will be contracted to pump and haul the liquids from the station to prevent overflow. Oil accumulation from the oil/water separator is minimal from a small operation like this; however, if any significant accumulation occurs, we would contract with a used-oil recycler (Noble Oil).

Fire Control

Fire-fighting services are provided by the Warrenton Rural Fire Department. The Transfer Station is also equipped with fire extinguishers for control of small fires.

In case of fire, the Town of Warrenton is immediately contacted. All personnel at the facility are familiar with the use of the fire extinguisher. All fire extinguishers are inspected monthly in accordance with the manufacturer's instructions. All fires are reported to the Solid Waste section within 24 hours by telephone and written notification is provided within 15 days. Telephone numbers are also included under contracts.

Vector Control

The station is swept and washed down and free of solid waste at the end of each day. Disinfectant is available, if needed, to perform this task. Full or partially filled haul trailers are left at the Transfer Station overnight but are covered and closed.

The tipping floor is thoroughly swept and washed down at the end of operation each day or as warranted. Any wastes with the potential for attracting flies, rodents and other insects or vermin is immediately disposed of in the transfer trailer. Solid waste is not stored on the tipping floor overnight.

Equipment

The Transfer Station utilizes the following equipment for the regular operation and maintenance:

- Compactor/chute to load transfer trailers
- Rubber-tired front end loader of tipped wastes from standby tipping floor
- Transfer trailers
- Scales for weighing incoming and transferred waste

Control of Wind Blown Waste

The tipping floor and loading areas are provided with a fence to mitigate windblown debris. Under normal operation, collection vehicles tip their waste directly to the compactor chute thereby mitigating the potential for windblown waste. All tipped waste is contained in the immediate area and cleaned up at the end of each work day.

All tipped waste will be directed to the chute feeding the compactor, except upon failure or maintenance of the compaction equipment in which case, solid waste will be tipped on the standby tipping floor. A front end loader will then be utilized to pick up and deposit waste in an open-top haul trailer. The open-top haul trailer will be provided with a cover. All waste that escapes the area shall be collected as soon as possible on a daily basis and properly disposed.

Personnel Requirements, Qualifications and Responsibilities

Responsibility of the Company: The Company will assign qualified personnel to manage and operate the collection and transportation system. The Company agrees that all employees will be required to wear clean uniforms that display the name of the Company and identify the individual as an employee of the Company.

Responsibility of the County: The County will be responsible for the landscaping, fencing, construction and repairs to the collection sites and the Transfer Station. The County will ensure that such facilities are now and will remain in full compliance with all applicable laws, including and without limitation, maintenance of all required permits.

The County's Solid Waste staff consists of five (5) County employees and one (1) Waste Industries, Inc., employee:

County Employees

Director
 Administrative Assistant II
 Public Weigh Master
 Solid Waste Operator I
 Solid Waste Operator II

Waste Industries, Inc. Employee

Transfer Station Operator

Contacts	Telephone/Fax Numbers and Email Address
Warren County <i>Linda Worth – Warren County Manager</i> Post Office Box 619 Warrenton, NC 27589 <i>Marshall Brothers – Public Works Director</i> 712 U.S. Highway 158 Business West Warrenton, NC 27589	(252) 257-3115 (252) 257-5971 – Fax lworth@co.warren.nc.us (252) 257-3795 (252) 257-3979 – Fax mbrthers@co.warren.nc.us
Waste Industries, Inc. <i>Lee Bodenhamer, III – Manager</i> Waste Industries, Inc. 241 Vance Mill Road Henderson, NC 27536	(252) 438-5304 (252) 431-1635 – Fax leebodenhamer@wasteindustries.com
Warren County Fire Department <i>Warrenton Rural Fire Department</i>	911 (252) 257-3741
Warren County Emergency Management Services <i>Doug Young</i> Director	(252) 257-2666 (252) 257-9458 – Fax dyoung@co.warren.nc.us
Environmental Senior Specialist <i>Mary Whaley</i>	(919) 693-5023 mary.whaley@ncdenr.gov

II. Local Waste Reduction Goals

The original ten-year waste reduction goal for FY 2014-15 was twenty percent (20%).

Through review of the Comprehensive Solid Waste Management Plan and after considering Warren County's current and projected solid waste activities, resources, population and economic growth, our ten-year waste reduction goal was revised. The short/long range vision of our program has and will continue to provide waste disposal capacity, waste collection from the Convenience Sites and the recycling programs to all citizens of the County at a reasonable cost. The program also includes efforts to eliminate illegal disposal of waste and the County is gearing up to provide expanded waste reduction opportunities that are convenient for our citizens.

Warren County's current and targeted waste reduction goals for FY 2017-18 and FY 2021-22 (Table 3).

Table 3: Five- and Ten-Year Population Projection and Waste Targeted

Year	Population Projection	Waste Disposal Tons Targeted	Per Capita Disposal Rate
Baseline Year - 1991	17,265	10,978	.63
Year	Population	Waste Disposal Tons	Per Capita Disposal Rate
FY 2017-18	21,030	9,884	.47
FY 2021-22	21,200	9,540	.45

Source: Population Figures from Office of State Planning and baseline year per capita rate provided by NC Solid Waste Section.

III. New Waste Reduction Goals

A local goal of 26% waste reduction on a per household basis to be reached by June 30, 2018 and a further goal of 28% to be reached by June 30, 2022. Due to the rural nature of Warren County, this new goal is believed to be aggressive and obtainable.

Table 4: Targeted Waste Reduction for FY's 2017-18 and 2021-22

Calculations	FY 2017-18	FY 2021-22
1. Baseline year per capita disposal rate (County figure provided by Solid Waste Section)	.63	.63
2. Targeted per capita disposal rate for FYs 2017-18 and 2021-22 (Subtract the percentage goal from 1.0, then multiply result by line 1)	.47	.45
3. Population for July 2018 and July 2022 (County figure from NC Municipal Population booklet)	21,030	21,200
4. Projected tonnage for disposal in FYs 2017-18 and 2021-22 at Baseline disposal rate (multiply line 1 by line 3)	13,249	13,356
5. Targeted annual tonnage for disposal in FYs 2017-18 and 2021-22 at targeted goal rate (multiply line 2 by line 3)	9,884	9,540
6. Targeted annual tonnage to reduce in FYs 2017-18 and 2021-22 (subtracted line 5 from line 4)	3,365	3,816

Source: Staff calculations

Since the residential waste generated the largest percentage of tonnage, it will be targeted first for reduction. The table below summarizes the residential waste reduction methods to be used to meet the local goals.

Table 5: Targeted Residential Waste Reduction

REDUCTION METHOD	TARGETED MATERIALS
Source Reduction	Junk mail, cardboard, paper, glass and aluminum
Recycling	Glass, paper, plastic, aluminum, cardboard, steel cans, newsprint, used cooking oil and electronics
Reuse	Swap shops, paper, cardboard, and glass
Mulching	Land clearing, clean wood waste, and pallets
Special Wastes	Oil, antifreeze, lead batteries, and oil filters

Source: Staff estimates

Table 6: Targeted Non-residential Waste Reduction

REDUCTION METHOD	TARGETED MATERIALS
Source Reduction	Cardboard and paper
Reuse	Pallets, tires, cardboard and paper
Recycling	Cardboard, paper, plastics, glass, steel cans, aluminum, used cooking oil and electronics
Mulching	Pallets, land clearing, and wood waste
Special Wastes	Oil, antifreeze, lead batteries, and oil filters

Source: Staff estimates

Table 7: Targeted Construction and Demolition Waste Reduction

REDUCTION METHOD	TARGETED MATERIALS
Reuse	Tires and wood products
Mulching	Land clearing, pallets, wood waste
Source Reduction	Wood products

Source: Staff estimates

IV. The Planning Process and Public Participation

The following participants assisted in the development of the Warren County Solid Waste Plan:

- Local Government, State Government and County Manager:
 - Ms. Linda Worth, County Manager
 - Mr. Marshall Brothers, Public Works Director
 - Ms. Margaret Clayton, Public Works Administrative Assistant II
 - Ms. Mary Whaley, Environmental Senior Specialist, NCDENR, Solid Waste Section
 - Mr. John Freeman, Town Administrator - Warrenton
 - Mr. Blaine Reese, Public Works Director - Town of Norlina
 - Ms. Linda Evans, Town Clerk - Macon
 - Mr. Lee Bodenhamer, III, General Manager for Waste Industries, Inc.

- Documents and data obtained from The Division of Solid Waste Management, Solid Waste Section, Raleigh Offices.
- Input from Public and Private solid waste entities within the area.
- Citizens input from informal brochures that provided information regarding solid waste and recycling during the period from 2009 through 2012.
- During the October 3, 2011, regular monthly meeting of the Warren County Board of Commissioners by unanimous vote, it was ordered to schedule a Public Forum to hear citizens' comments concerning Solid Waste Management Plan for November 7, 2011.
- The forum was announced in the Warren Record and posted at the County Manager's Office.

**NOTICE OF PUBLIC FORUM
ON
SOLID WASTE MANAGEMENT PLAN**

(Please refer to Appendix A)

Barry Richardson, Chairman
Warren County Board of Commissioners

- Public Forum was held on November 7, 2011, at 5:45 p.m. in the Warren County Armory that allowed for citizen input. However, no comments were made about the Plan.
- A draft of the plan was placed in the Warren County Clerk's office, the County Library, and Warren County website. It was submitted to the elected boards of each participating local governmental for approval.
- The plan was submitted to the Warren County Board of Commissioners on October 19, 2011, during a work session.
- The plan was adopted by the Warren County Board of Commissioners on November 7, 2011, regular monthly meeting.
- The plan was endorsed by the Macon Town Council on October 4, 2011; by the Norlina Town Council on November 7, 2011, and the Warrenton Town Council on October 10, 2011.

V. Solid Waste Management Methods

Assessment of Existing programs and Description of Intended Actions

The North Carolina Department of Environment and Natural Resources has mandated that certain waste stream elements be banned from disposal in landfills by proscribed dates:

NCCGS 130A-309

1. Used oil and filters
2. Oyster Shells (Effective January 1, 2007)
3. Yard debris, but may be accepted at a solid waste disposal area where the area provides and maintains separate yard trash composting facilities.
4. White goods
6. Antifreeze (ethylene glycol)
7. Aluminum cans (July 1, 2009)
8. Whole scrap tires
9. Lead-acid batteries
10. Beverage containers that are required to be recycled
11. Motor vehicle oil filters (Effective October 1, 2009)
12. Recyclable rigid plastic containers (Effective October 1, 2009)
13. Wooden pallets (Effective October 1, 2009)
14. Discarded computer equipment (Effective July 1, 2011)
15. Discarded televisions (Effective July 1, 2011)
16. Lights containing Mercury (March 1, 2008)

In addition to being aware of above banned elements and timetables, the following outlines and describes each solid waste management method as required by North Carolina G.S. 130A-309.09A (b). Each section includes an assessment of the current program, if one exists, and a summary of any intended actions.

A. Source Reduction

Current Program:

- Warren County has recycling bins at all of the manned Convenience Sites to collect:
 1. Glass
 2. Plastic bottles
 3. Aluminum Cans
 4. Newspapers
 5. Used Motor Oil
 6. Cardboard
 7. Lead-acid Batteries
 8. White Goods
 9. Motor Vehicle Oil Filters
 10. Discarded computer equipment and televisions at two locations

Intended Action:

- Warren County seeks to be more aggressive with recycling programs by pursuing grant opportunities and increased enforcement.

B. Collection of Solid Waste

1. Town of Macon

Current Program:

- Residential and downtown commercial waste is collected by the Town's Sanitation Department.
- The service is provided by the Town once per week, with yard waste picked up as needed. Collection days are Tuesdays and Fridays.
- The citizens have access to all Convenience Sites for recycling throughout the County.

Intended Action:

- The Town's Sanitation Department will continue to pick up residential and commercial wastes as it currently does.

2. Town of Norlina

Current Program:

- Residential and downtown commercial waste is collected by the Town's Sanitation Department.
- The service is provided by the Town once per week, with yard waste picked up as needed. Collection days for trash are Mondays, Tuesdays and Wednesdays; and for yard debris on Thursdays and Fridays.
- The citizens have access to all Convenience Sites for recycling throughout the County.

Intended Action:

- The Town's Sanitation Department will continue to pick up residential and commercial waste.

3. Town of Warrenton

Current Program:

- Residential and downtown commercial waste is collected by the Town's own Sanitation Department.
- The service is provided by the Town once per week, with yard waste picked up as needed. Collection days are Monday through Friday.
- The citizens have access to all Convenience Sites for recycling throughout the County.

Intended Action:

- The Town's Sanitation Department will continue to pick up residential and commercial waste.

4. Unincorporated Areas of Warren County

Current Program:

- Warren County provides nine (9) manned Convenience Sites strategically placed in the rural areas of the County (see map – Appendix B).
- The Convenience Sites are staffed through a contract with Waste Industries, Inc.
- Residential solid waste is accepted at each site in an enclosed compactor.
- *Bulky Items:* The contractor will supervise the deposit of bulky items into the appropriate container.
- *White Goods:* The contractor will supervise the deposit of white goods in the appropriate staging area.
- *Used Oil and Filters:* The contractor will provide oversight for the emptying of used oil into the appropriate container located on site. The County will provide containers and arrange for safe removal/disposal according to state and federal regulations.

- *Commingled Recycling Drop-off Containers:* The contractor will supervise the recycling drop-off containers, encourage recycling and assist customers in determining the proper container for recycle materials. The commingled recyclables collected, include at a minimum, but not limited to corrugated cardboard, aluminum cans, office paper, newspaper, plastic bottles, steel cans, and glass (clear, green and brown).
- All commercial and industrial waste generators must haul their own material or contract with a private hauler for waste collection to a permitted facility.

Collection Hours, Sites and Equipment

Site 1 –Eaton’s Ferry (SR #1344)

September – April Schedule

SUN: 11:00 AM – 7:00 PM

M/F/SAT: 7:30 AM – 6:30 PM

W: 12:30 PM – 6:30 PM

T/TH: CLOSED

Minimum Equipment

1 – Office Building

1 – 2 yard Compactor

2 – 40 yard Open Top Containers

1 – 40 yard Cardboard Recycling Container

1 – 40 yard Commingle Recycling Container

1 – Electronic Recycling Depot

May – August Schedule

MON – SAT: 7:30 AM – 6:30 PM

SUN: 11:00 AM – 6:30 PM

Site 2 - Warrenton/Ridgeway Road

Highway 158 Business

MON – SAT: 7:30 AM – 6:30 PM

SUN: CLOSED

Minimum Equipment

1 – Office Building

1 – 2-yard Compactor

1 – 40 yard Commingle Recycling Container

2 – 40-yard Open Top Containers

1 – 40-yard Cardboard Recycling Container

Site 3 - Afton (NC Highway 401)

M/W/F/SAT: 7:30 AM – 6:30 PM

S/T/TH: CLOSED

Minimum Equipment

1 – Office Building

1 – 2-yard Compactor

1 – 40 yard Commingle Recycling Container

2 – 40-yard Open Top Containers

1 – 40-yard Cardboard Recycling Container

Site 4 - Afton (NC Highway 401)

M/W/F/SAT: 7:30 AM – 6:30 PM

S/T/TH: CLOSED

Minimum Equipment

1 – Office Building

1 – 2-yard Compactor

1 – 40 yard Commingle Recycling Container

2 – 40-yard Open Top Containers

1 – 40-yard Cardboard Recycling Container

Site 5 - Five Forks (SR #1306)

SUN: 2:30 PM – 6:30 PM

M/T/TH/SAT: 7:30 AM – 6:30 PM

W/F: CLOSED

Minimum Equipment

1 – Office Building

1 – 2-yard Compactor

1 – 40 yard Commingle Recycling Container

2 – 40-yard Open Top Containers

Site 6 - Macon/Vaughan (Highway 158)

M/T/TH/SAT: 7:30 AM – 6:30 PM

S/W/F: CLOSED

Minimum Equipment

1 – Office Building

1 – 2-yard Compactor

1 – 40 yard Commingle Recycling Container

2 – 40-yard Open Top Containers

Site 7 - Inez (Highway 58/SR #1625)

M/T/TH/SAT: 7:30 AM – 6:30 PM

S/W/F: CLOSED

Minimum Equipment

1 – Office Building

1 – 2-yard Compactor

1 – 40 yard Commingle Recycling Container

2 – 40-yard Open Top Containers

Site 8 - Wise (Highway #1)

M/W/F/SAT: 7:30 AM – 6:30 PM

S/T/TH: CLOSED

Minimum Equipment

1 – Office Building

1 – 2 -yard Compactor

1 – 40 yard Commingle Recycling Container

2 – 40 -yard Open Top Containers

1 – 40 -yard Cardboard Recycling Container

Site 9 - Drewry (SR #1224)

MON - SAT: 7:30 AM – 6:30 PM

*Joint site between Warren and Vance Counties**Intended Actions:*

- The County will continue using Convenience Centers to collect solid waste and recyclables from unincorporated rural areas of the County. Warren County has converted modified convenience sites to Commingled Recycling sites.

The County will continue to operate under a franchise system and work to improve Solid Waste services.

C. Recycling and Re-use*Current Recycling Programs:*

- The Towns of Macon, Norlina and Warrenton do not have a recycling program. However, the municipalities do have access to the Commingled Recycling Centers provided by the County and there is no cost for this service.

Unincorporated Areas of Warren County:

- Warren County has been providing a recycling program since 1993.
- On July 1, 2009, the County changed from a separate container recycling program to a Commingle Recycling program.
- The County provides nine (9) manned Convenience Sites, which accepts a variety of recyclable materials.
- The County contracts with Waste Industries, Inc., for collection and transportation of recyclables.
- Materials collected include newspaper, cardboard, plastic bottles, aluminum cans, glass, used motor oil, used oil filters, steel cans, office paper, lead acid batteries, and electronics.
- Electronics, white goods, other metals, tires, and yard debris are collected at the County's Transfer Station. White goods may be dropped off at any of the nine (9) manned Convenience Sites and then transported to the Transfer Station.
- Any business or industry may utilize the manned Convenience Sites for recycling at no cost. It is undetermined as to how much businesses and industries are actually utilizing the recycling centers.

Intended Actions:

- The residential recycling programs are targeted to increase recycling efforts.
- Warren County will continue to educate and promote recycling.
- The County will continue to manage and abate abandoned manufactured homes.

Current Re-Use Program:

- At this time, the County does not have a re-use program.

Intended Action:

- Consider re-use programs to include "swap shops," give-a-ways, and other means for the public to trade, sell, or give away items they would otherwise dispose of in a landfill.

D. Composting and Mulching*Current Composting Program:*

- Presently, Warren County does not have a composting program.

Intended Action:

- The County and the North Carolina Cooperative Extension Service will work together to develop and implement residential composting workshops.

Current Mulching Program:

- Warren County does not have a mulching program.

Intended Action:

- The current program will continue to seek revenue-producing markets as they become available.

E. Incineration with Energy Recovery*Current Program:*

- Incineration with energy recovery is not part of the County's current program.

Intended Action:

- Warren County does not plan to use incineration with energy recovery.

F. Incineration without Energy Recovery*Current Program:*

- Incineration without energy recovery is not part of the County's current program.

Intended Action:

- Warren County does not plan to use incineration without energy recovery.

G. Transfer of Solid Waste Outside of the Geographic Area*Current Program:*

- The County is currently under contract with Waste Industries, Inc., for waste hauling to a regional landfill in Brunswick County, Virginia, and Person County, North Carolina.

Intended Action:

- Warren County will continue to use a contract hauler and regional landfills.

H. Disposal of Solid Waste*Current Program:*

- Warren County contracts with Waste Industries, Inc., for the operation of a Transfer Station, eight Convenience Centers and one joint Convenience Center with Vance County. Land Clearing and Inert Debris (LCID) continue to be disposed in the County's notified LCID landfill and privately-operated permitted and notified LCID facilities.

Intended Action:

- Warren County plans to continue with the disposal and transfer aspects of the solid waste program in the current manner.

I. Abatement of Abandoned Manufactured Homes*Current Program:*

- In accordance with NCGS 130A-309.113, Warren County has approved and is including a plan to Manage Abandoned Manufactured Homes (attachment - Appendix C).

VI. Education, Special Wastes, Illegal Disposal and PurchasingAssessment of Programs and Descriptions of Intended Actions**A. Community and School Education**Community Education*Current Program:*

- Warren County prepares and distributes pamphlets which encourages recycling, discourages littering, and seeks to promote a sense of pride in the community.
- Community education is provided through brochure distribution and use of the media.

Intended Actions:

- Warren County seeks to be more aggressive with recycling programs by pursuing grant opportunities.
- Increased enforcement by the Solid Waste technicians, site attendants, and Warren County Sheriff's Office.
- Continued to develop and distribute solid waste brochures, informative pamphlets, etc., to all County citizens to encourage recycling.

B. Special Waste Management

Tires

Current Program:

- Tires are collected free of charge, according to the State waste rules, at the Warren County Transfer Station.
- Used tires are transferred to Central Carolina Holdings, LLC.

Intended Action:

- Tire collection and hauling will remain the same.

White Goods

Current Program:

- White goods are collected at each manned Convenience Site, free of charge.
- Currently, the County contracts to have the CFC's (chlorofluorocarbons) removed.
- White goods are stored at the County's Transfer Station
- White goods collection has increased over the past several years.
- The white goods are picked up by United Salvage Auto for recycling.

Intended Action:

- The white goods collection process will remain the same.

Lead-acid Batteries

Current Program:

- Lead-acid batteries are collected at the County's Convenience Centers and transported to the Transfer Station by the County's staff for storage.
- When a large amount of batteries have been collected, Hill's Recycling is contacted for recycling.

Intended Action:

- Battery collection will remain the same.

Used Motor Oil

Current Program:

- Collection of used oil is provided free of charge.
- Convenience Sites are equipped with a 350-gallon tank to accept motor oil.
- A professional recycling/disposal company picks up and processes the motor oil.

Intended Action:

- Each of the manned Convenience Sites will continue to be equipped to collect used motor oil.

Household Hazardous Waste (HHW)

Current Program:

- Warren County does not have a Household Hazardous Waste program at this time.

Intended Action:

- Warren County will seek grants and consider a Household Hazardous Waste collection day in conjunction with the Agriculture Extension Service.

Electronic Recycling Program

July 1, 2011, Warren County no longer accepted any electronic waste at the Transfer Station in accordance with North Carolina Session Law 2010-67. See **Appendix D** - Electronic Recycling Program.

C. Prevention of Illegal Disposal*Current Program:*

- The County has been working with the North Carolina Department of Environment and Natural Resources, Solid Waste Section, to investigate illegal dumping sites that have been reported by concerned citizens, as well as self-initiated actions. Both civil penalties and criminal action may be taken.
- Warren County will enforce County ordinances through the Sheriff's Office with the assistance of the County's Solid Waste staff.

Intended Action:

- Warren County will continue to enforce its solid waste ordinance both civilly and criminally.

D. Purchase of Recycled Materials and Products*Current Program:*

- Warren County Administrators encourage the various departments to purchase recycled paper products.

Intended Action:

- County Administrators encourage employees to purchase recycled paper and other products from the designated office product supplier.

VII. Solid Waste Cost and Financing Methods

County Description and Assessment of Costs: The solid waste costs shown below are separated by the County-operated program and the three municipal programs.

The total budget for Warren County during FY 2009-10 was \$1,347,394.00. The revenues offset from the tire tax and the white goods tax is not included in this analysis. The annual cost of waste collection for the County was \$686,620.00. This includes the manned Convenience Sites, unmanned green box collection sites, and the County-owned buildings. Some recycling costs are included in the manned Convenience Site costs.

Disposal Cost for FY 2009-10 was \$597,597.00. This is the pass-through costs to Waste Industries for transporting the solid waste to the regional landfill and operating the Transfer Station. A summary of the County-operated Solid Waste Program costs is shown in **Table 8**. These totals are derived from the Full Cost Accounting Section in the Warren County Solid Waste Annual Report provided to DENR.

Table 8: County-Operated Solid Waste Program Costs

	Collection	Disposal	Waste Reduction	Total
Program Costs	\$686,620.00	\$597,597.00	\$63,177.00	\$1,347,394.00
Cost Per Ton	\$72.72	\$63.30	\$163.10	--

Source: Warren County Solid Waste Annual Report to DENR

County Assessment

It can be assumed that as participation in the waste reduction program increases, the cost per ton for collection and disposal may decrease. Fuel cost is a driving factor in cost per ton.

Norlina Description

Because the program is curbside, per household costs were also determined. The town has 610 households that disposed of a projected 725 tons of waste in FY 2009-10. Norlina's solid waste program costs are summarized for that year in **Table 9**. These totals are derived from the full cost analysis worksheets provided to DENR which are shown on page 32.

Table 9: Norlina's Solid Waste Program Costs FY 2009-10

	Collection	Disposal	Total
Program Cost	\$63,829.00	\$31,000.00	\$94,829.00
Cost Per Ton	\$88.04	\$42.75	\$130.79
Cost Per Household	\$104.63	\$50.81	\$155.45

Source: Norlina Annual Report to DENR

Macon Description

Macon has 57 households that disposed of a projected 43.07 tons of waste in FY 2009-10. The summary of solid waste costs for that year is shown below in **Table 10**. These totals are derived from the full cost analysis worksheets provided to DENR which are shown on page 33.

Table 10: Macon's Solid Waste Program Costs FY 2009-10

	Collection & Disposal
Program Cost	\$10,164.00
Cost Per Ton	\$235.98
Cost Per Household	\$178.31

Source: Macon Annual Report to DENR

Warrenton Description

Warrenton has 496 households that disposed of a projected 318 tons of waste in FY 2009-10. The summary of solid waste costs for that year is shown below in **Table 11**. These totals are derived from the full cost analysis worksheets provided to DENR which are shown on page 31.

Table 11: Warrenton's Solid Waste Program Costs FY 2009-10

	Collection	Disposal	Total
Program Cost	\$84,059.00	\$18,820.00	\$102,879.00
Cost Per Ton	\$264.34	\$59.18	\$323.52
Cost Per Household	\$169.47	\$37.94	\$207.42

Source: Warrenton Annual Report to DENR

Description of Financing Methods

- Warren County's current Solid Waste program is funded through the County-wide household user fee, white goods tax, tire tax, sale of recyclables, and tipping fees.
- The tire program is funded solely from the tire tax, as well as the white goods program funded through the white goods tax, but is subsidized by the County, if needed.
- In July 2008, a \$2.00 North Carolina State tipping fee was imposed. A portion of the fee is returned to the County.

Table 12: Solid Waste Financing Methods Used by the Planning Area FY 2009-10

	Total SWM Budget	Tipping Fee	Property Tax - General Fund	Household Charge	Sale of Recyclables	Tire & White Goods Tax
Warren County	\$1,347,394.00	√	NA	√	√	√
Warrenton	\$102,879.00	NA	NA	√	NA	NA
Norlina	\$94,829.00	NA	NA	√	NA	NA
Macon	\$10,164.00	NA	√	√	NA	NA

Source: Finance Department Records plus County & Municipal Solid Waste Management Annual Reports

Assessment of Financing Methods:

Warren County

- The County's current financing methods generate enough revenues for the current solid waste program.

Tipping Fees:

- The current \$65.00 "per ton" tipping fee is collected by the County. Two Dollars (\$2.00) of the tipping fee goes to the North Carolina Solid Waste Trust Fund. A formula is used to determine reimbursement to the Counties. The tipping fees cover the cost of collection and transportation to the regional Landfill.

Household Fee:

- Warren County's unincorporated households pay a \$115.00 per household fee.
- It is estimated that \$961,511.00 was collected for FY 2009-10. This fee is part of each resident's property tax bill.

Sale of Recyclables:

- At the present time, the sale of recyclables is minimal.
- Current market prices and market availability have a major impact on revenues generated from recycling.
- Revenue from the sale of recyclables is retained by Waste Industries to off-set the contract cost.

VIII. County Disaster Response Plan for Solid Waste Storm-Generated Debris

Warren County has Emergency Debris Staging Areas; one located at the Old County Airport on Airport Road and the other located at the closed MSW Landfill on Baltimore Road.

Historically, Warren County has experienced periods of severe weather and winds. Following these events, the County faces the task of restoring a sense of normalcy to the community. A major hindrance to this process is the amount of debris to be dealt with. Listed below are some points that the County has used to address storm-generated debris, as well as potential future management methods:

- Storm-generated debris has largely consisted of downed trees and brush.
- Following Hurricane Fran in September, 1996, the North Carolina-Division of Emergency Management began training local officials on how to manage and facilitate the removal and disposal of large quantities of debris following a disaster.
- It is recommended that contracts be in place prior to such events between the County and private contractors with regard to debris clearance.
- In establishing these contracts, a resource is provided to the County that can be called upon in a moment's notice and sets the cost before hand to prevent post-disaster price increases.

State of North Carolina

County of Warren

RESOLUTION ACCEPTING AND ENDORSING THE SOLID WASTE MANAGEMENT PLAN OF 2012 FOR WARREN COUNTY

WHEREAS, the State of North Carolina has placed planning responsibility on local government for the management of solid waste; and

WHEREAS, the Warren County Board of Commissioners recognizes the need for an improved solid waste management system, as well as the need to control the cost associated with the same; and

WHEREAS, N.C. General Statute 130A-309.09A(b) requires each unit of local government, either individually or in cooperation with other units of local government, to update the Ten-Year Comprehensive Solid Waste Management Plan at least every three years; and

WHEREAS, the Board of County Commissioners did hold a public hearing to receive citizens' comments on its proposed solid waste management plan; and

WHEREAS, the proposed solid waste management plan was also presented to municipalities in the County with the Towns of Macon, Norlina and Warrenton endorsing same;

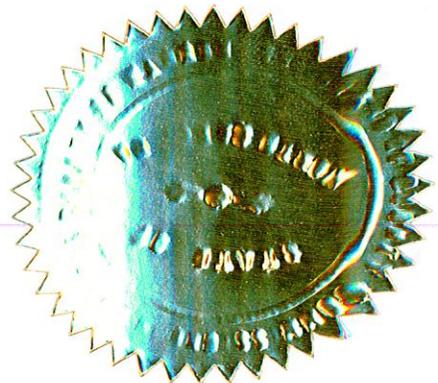
NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF WARREN COUNTY:

That Warren County's 2012 Three-Year Comprehensive Solid Waste Management Plan is accepted and endorsed and placed on file with Clerk to the Board on this day, 11-7 2011.

WARREN COUNTY BOARD OF COMMISSIONERS
Barry Richardson
Barry Richardson, Chairman

ATTEST:

Angelena Kearney-Dunlap
Angelena Kearney-Dunlap, Clerk to the Board



TOWN OF WARRENTON

"Historically Great - Progressively Strong"

CHARTERED IN 1779

P.O. Box 281

WARRENTON, NORTH CAROLINA 27589

Phone (252) 257-3315 / FAX (252) 257-9219

RESOLUTION TO APPROVE THE WARREN COUNTY SOLID WASTE PLAN

WHEREAS, better planning for solid waste will help protect public health and the environment, provide for an improved solid waste system, better utilize our natural resources, and control the cost of solid waste management; and

WHEREAS, NC General Statute 130A-309.09A(b) requires each local government, either individually or in cooperation with other units of local government, to develop a 10-year comprehensive solid waste management plan; and

WHEREAS, the goals and plans set forth in the Warren County Solid Waste Plan are consistent with this body's approach to solid waste management and provide an opportunity for continuing to improve our cooperative efforts to meet waste management needs of our citizens; and

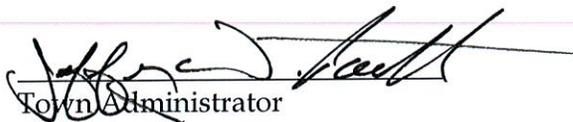
WHEREAS, the Town of Warrenton was represented on the Warren County Planning Advisory committee and has been actively involved in the planning process;

NOW, THEREFORE, BE IT RESOLVED that the Town Board of Warrenton hereby approves the Warren County comprehensive solid waste management plan.

Adopted this 10th day of October, 2011


Walter M. Gardner Jr., Mayor
Town of Warrenton

ATTEST:


Town Administrator

Warren County, North Carolina
I certify that the following persons personally
appeared before me this day, each acknowledging
to me that he or she signed the foregoing document:
Walter M. Gardner / Jeffrey Parrott

Date of Acknowledgement: 10/10/11

Barbara W. Medlin
Barbara W. medlin, Notary
Public

My Commission expires: 6/7/2012

TOWN OF MACON
POST OFFICE BOX 69
MACON, NORTH CAROLINA 27589

RESOLUTION TO APPROVE THE WARREN COUNTY SOLID WASTE PLAN

WHEREAS, better planning for solid waste will **help protect** public health and the environment, provide for an improved solid waste **system**, better utilize our natural resources, and control the cost of solid waste **management**; and

WHEREAS, NC General Statute 130A-309.09A(b) **requires** each local government, either individually or in cooperation with other units of **local government**, to develop a 10-year comprehensive solid waste management plan; and

WHEREAS, the goals and plans set forth in the **Warren County Solid Waste Plan** are consistent with this body's approach to solid **waste management** and provide an opportunity for continuing to improve our **cooperative** efforts to meet waste management needs of our citizens; and

WHEREAS, the Town of Macon was **represented on** the Warren County Planning Advisory committee and has been actively **involved in the** planning process;

NOW, THEREFORE, BE IT RESOLVED that the **Town Board** of Macon hereby approves the **Warren County comprehensive solid waste management** plan.

Adopted this 4th day of OCTOBER


Mayor


Clerk

TOWN OF NORLINA

RESOLUTION TO APPROVE THE WARREN COUNTY SOLID WASTE PLAN

WHEREAS, better planning for solid waste will help protect public health and the environment, provide for an improved solid waste system, better utilize our natural resources, and control the cost of solid waste management; and

WHEREAS, NC General Statute 130A-309.09A(b) requires each local government, either individually or in cooperation with other units of local government, to develop a 10-year comprehensive solid waste management plan; and

WHEREAS, the goals and plans set forth in the Warren County Solid Waste Plan are consistent with this body's approach to solid waste management and provide an opportunity for continuing to improve our cooperative efforts to meet waste management needs of our citizens; and

WHEREAS, the Town of Norlina was represented on the Warren County Planning Advisory committee and has been actively involved in the planning process;

NOW, THEREFORE, BE IT RESOLVED that the Town Board of Commissioners of the Town of Norlina hereby approves the Warren County comprehensive solid waste management plan.

Adopted this 1 day of November, 2011

Dwight Pearce
Mayor

Cindy P. Sandman
Town Clerk

**WORKSHEETS
Warren County**

Full Cost Analysis Budget Form						
Fiscal Year: 2009-10		Total MSW Budget	Program Category			
<i>Annual Cost of Operations</i>			SW Collection	SW Disposal	Recycling	Other
	# of Employees	4				
1	Wages + Benefits of Employees (FTE)*	202,613	92,350	92,201	18,062	
2	Local Government Administrative Support					
3	Equipment Operations and Maintenance	28,000	14,000	14,000		
4	General Operations	22,000	11,000	11,000		
5	Educational Materials					
6	Cash Capital Outlays					
7	Lease Payments					
8	Contracted Services	1,076,673	562,693	468,865	45,115	
9	Professional Services					
10	Insurance					
11	Tipping Fees					
12	Other:	16,708	6,577	10,131		
<i>Costs of Large Capital Expenditures</i>						
13	Annualized Large Capital Expenditures*					
14	Annualized Landfill Development & Construction Costs*					
15	Annualized Landfill Closure Costs*	1,400		1,400		
16	Cost of Debt Service (loan & bond interest)					
17	<i>Total Annual costs: (sum of lines 1-16)</i>	1,347,394	686,620	597,597	63,177	
<i>Revenues</i>						
18	Sales of Recyclables					
19	Equipment Salvage					
20	Other Revenue Sources**:					
21	<i>Total Annual Revenues: (sum of lines 18-20)</i>					
22	<i>Net Annual Costs: (subtract line 21 from line 17)</i>	1,347,394	686,620	597,597	63,177	
<i>Indicators of Efficiency</i>						
23	Tons of Material Managed per Year	9,441	9,441	9,441	387.36	
24	# of Households or Clients Served	9,000	9,000	9,000	10,000	
25	<i>Total Cost per Ton: (divide line 22 by line 23)</i>	142.72	72.73	63.30	163.10	
26	<i>Total Cost per Household: (divide line 22 by line 24)</i>	149.71	76.29	66.40	6.32	

Line # 20

State Tire Disposal Fees _____
 Investment Income _____
 State Grant White Goods _____

FULL COST WORKSHEETS

Town of Warrenton

Full Cost Analysis Budget Form

Fiscal Year: 2009-10		Total MSW Budget	Program Category			
<i>Annual Cost of Operations</i>			SW Collection	SW Disposal	Recycling	Other
	# of Employees	2	X			
1	Wages + Benefits of Employees (FTE)*	65,649	X			
2	Local Government Administrative Support					
3	Equipment Operations and Maintenance	8,333	X			
4	General Operations	3,770	X			
5	Educational Materials					
6	Cash Capital Outlays					
7	Lease Payments					
8	Contracted Services					
9	Professional Services					
10	Insurance	4,576	X			
11	Tipping Fees	20,551		18,820		
12	Other:					
<i>Costs of Large Capital Expenditures</i>						
13	Annualized Large Capital Expenditures*					
14	Annualized Landfill Development & Construction Costs*					
15	Annualized Landfill Closure Costs*					
16	Cost of Debt Service (loan & bond interest)					
17	<i>Total Annual costs: (sum of lines 1-16)</i>	102,879	84,059	18,820		
<i>Revenues</i>						
18	Sales of Recyclables					
19	Equipment Salvage					
20	Other Revenue Sources**:					
21	<i>Total Annual Revenues: (sum of lines 18-20)</i>					
22	<i>Net Annual Costs: (subtract line 21 from line 17)</i>	102,879	84,059	18,820		
<i>Indicators of Efficiency</i>						
23	Tons of Material Managed per Year	318	318	318		
24	# of Households or Clients Served	496	496	496		
25	<i>Total Cost per Ton: (divide line 22 by line 23)</i>	323.52	264.34	59.18		
26	<i>Total Cost per Household: (divide line 22 by line 24)</i>	207.42	169.47	37.94		

**FULL COST WORKSHEETS
Town of Norlina**

Full Cost Analysis Budget Form						
Fiscal Year: 2009-10		Total MSW Budget	Program Category			
<i>Annual Cost of Operations</i>			SW Collection	SW Disposal	Recycling	Other
	# of Employees	3 (2 P.T.)	3 (2 P.T.)			
1	Wages + Benefits of Employees (FTE)*	\$48,029	\$48,029			
2	Local Government Administrative Support	0	0			
3	Equipment Operations and Maintenance	\$14,800	\$14,800			
4	General Operations	\$1,000	\$1,000			
5	Educational Materials					
6	Cash Capital Outlays					
7	Lease Payments					
8	Contracted Services					
9	Professional Services					
10	Insurance					
11	Tipping Fees	\$31,000		\$31,000		
12	Other:					
<i>Costs of Large Capital Expenditures</i>						
13	Annualized Large Capital Expenditures*					
14	Annualized Landfill Development & Construction Costs*					
15	Annualized Landfill Closure Costs*					
16	Cost of Debt Service (loan & bond interest)					
17	<i>Total Annual costs: (sum of lines 1-16)</i>	\$94,829	\$63,829	\$31,000		
<i>Revenues</i>						
18	Sales of Recyclables					
19	Equipment Salvage					
20	Other Revenue Sources**:					
21	<i>Total Annual Revenues: (sum of lines 18-20)</i>	0	0	0		
22	<i>Net Annual Costs: (subtract line 21 from line 17)</i>	\$94,829	\$63,829	\$31,000		
<i>Indicators of Efficiency</i>						
23	Tons of Material Managed per Year	725	725	725		
24	# of Households or Clients Served	610	610	610		
25	<i>Total Cost per Ton: (divide line 22 by line 23)</i>	\$130.79	\$88.04	\$42.75		
26	<i>Total Cost per Household: (divide line 22 by line 24)</i>	\$155.45	\$104.63	\$50.81		

**FULL COST WORKSHEETS
Town of Macon**

Full Cost Analysis Budget Form						
Fiscal Year: 2009-10		Total MSW Budget	Program Category			
<i>Annual Cost of Operations</i>			SW Collection	SW Disposal	Recycling	Other
	# of Employees	½ PT				
1	Wages + Benefits of Employees (FTE)*	5490				
2	Local Government Administrative Support					
3	Equipment Operations and Maintenance	511				
4	General Operations	758				
5	Educational Materials					
6	Cash Capital Outlays					
7	Lease Payments					
8	Contracted Services					
9	Professional Services					
10	Insurance	847				
11	Tipping Fees	2558				
12	Other:					
<i>Costs of Large Capital Expenditures</i>						
13	Annualized Large Capital Expenditures*					
14	Annualized Landfill Development & Construction Costs*					
15	Annualized Landfill Closure Costs*					
16	Cost of Debt Service (loan & bond interest)					
17	<i>Total Annual costs: (sum of lines 1-16)</i>	10,164				
<i>Revenues</i>						
18	Sales of Recyclables					
19	Equipment Salvage					
20	Other Revenue Sources**:					
21	<i>Total Annual Revenues: (sum of lines 18-20)</i>					
22	<i>Net Annual Costs: (subtract line 21 from line 17)</i>	10,164				
<i>Indicators of Efficiency</i>						
23	Tons of Material Managed per Year	43.07				
24	# of Households or Clients Served	57				
25	<i>Total Cost per Ton: (divide line 22 by line 23)</i>	235.98				
26	<i>Total Cost per Household: (divide line 22 by line 24)</i>	178.31				