# Cabarrus County

## *Solid Waste Management Plan Update*

### for the 10-year period from 2012 - 2022

Developed by Cabarrus County and the following Municipalities:

- City of Kannapolis
- Town of Harrisburg
- Town of Midland
- Town of Mount Pleasant

**June 2012**

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# Section 1 – Local Contacts

### Cabarrus County—

**Kevin Grant**, *Sustainability Manager* kpgrant@cabarruscounty.us 704-920-3209

### City of Kannapolis—

**Wilmer Melton**, *Public Works Director* wmelton@cityofkannpolis.com 704-920-4231

### Town of Harrisburg—

**Derek Slocum**, *Interim Public Works Director* dslocum@harrisburgnc.org 704-455-4758

### Town of Midland—

**Nancy Boyden**, *Town Clerk* nboyden@midlandnc.us 704-888-2223

### Town of Mount Pleasant—

**Bobby Hartsell**, *Public Works Director* mppwdirector@windstream.net 704-436-2353

# Section 2 – Public Participation

## 2. a. Participants

This Plan addresses the waste management planning needs and requirements of Cabarrus County and all 4 municipal governments which include:

- City of Kannapolis
- Town of Harrisburg
- Town of Midland
- Town of Mount Pleasant

The municipal governments participated in the Plan preparation by working individually with the County's Waste Reduction Coordinator to review their solid waste programs, provide updates on previous intended actions, and develop new intended actions. Cabarrus County personnel participated in and oversaw the Plan's development, and recommended the Plan for adoption by the elected officials of each local government.

## 2. b. Public Input

A draft of the Plan was placed in the County Manager's office and each jurisdictions' government building for public review and comment. The draft Plan was also posted on Cabarrus County's web site. A paid advertising notice of the opportunity to comment on the plan at the public meeting was placed in the Independent Tribune newspaper (see notice in Appendix B).

A public meeting was hosted at the County government building on May 15, 2012 from 5 pm to 7 pm. Additional opportunities for public input in the planning process were provided at each meeting of elected municipal officials when the draft Plan was presented for review and consideration. The draft Plan was adopted by each local government by resolution. Copies of the resolutions are provided in Appendix F.

# Section 3 – Waste Characterization

No waste stream characterization studies have ever been conducted for waste generation in Cabarrus County. We have relied on state and national percentages, and studies from similar counties in North Carolina.

## 3. a. Residential Wastes

Residential wastes represent an estimated 40% of the total wastes generated in Cabarrus County, based on averages from a review of other communities in North Carolina.

Composition data in Table 3-1 are calculated using percentage calculations from Orange County, in their 2010 Study, using 2010-11 Cabarrus County data. This was chosen because it represents discarded residential wastes, after recycling and reduction efforts. U.S. EPA Totals include all MSW, not just discards.

**Table 3-1 Residential Waste Generation**

| Category | Percentage | Tonnage |
|---|---|---|
| Organics | 37 | 33,704 |
| Paper | 22 | 20,040 |
| Plastics | 18 | 16,397 |
| Wood | 6 | 5,466 |
| Ferrous Metal | 4 | 3,644 |
| Glass | 4 | 3,644 |
| Other* | 9 | 8,198 |
| **Total** | **100** | **91,092** |

* Less than 2% is electronics and special wastes

# 3. b. Commercial/Industrial/Institutional (CII) Wastes

CII wastes make up an estimated 60% of Cabarrus County's total waste generation. Characterization estimated percentages are based on those from Mecklenburg County. Table 3-2 shows wastes by category with tonnages expressed based on 2010-11 data.

**Table 3-2 Commercial, Industrial and Institutional Waste**

| Category | Percent | Tonnage |
|---|---|---|
| Paper | 30 | 41,401 |
| Organics | 31 | 42,358 |
| Other | 13 | 17,763 |
| Plastic | 13 | 17,763 |
| Metal | 8 | 10,931 |
| Glass | 3 | 4,099 |
| Special | 1 | 1,366 |
| Hazardous | 1 | 956 |
| **Total** | **100** | **136,639** |

## Table 3-3 Management of Solid Waste Generated in Cabarrus County FY2011

| Management Practice and Facility | Location | Tons Processed | % of Category | % of total Waste |
|---|---|---|---|---|
| **MSW Landfill** | | | | |
| BFI-Charlotte Motor Speedway Landfill | Concord, NC | 121,499 | 92.56% | 53.35% |
| BFI-Lake Norman Landfill | Stanley, NC | 16 | 0.01% | 0.01% |
| Chambers Development Landfill | Polkton, NC | 1,246 | 0.95% | 0.55% |
| Rowan County Landfill | Woodleaf, NC | 8,505 | 6.48% | 3.73% |
| ***Total Tons MSW Landfill*** | | ***131,266*** | | |
| **C&D Landfill** | | | | |
| Cabarrus County C&D Landfill | Concord, NC | 24,325 | 25.22% | 10.68% |
| Highway 49/Greenway C&D Landfill | Concord, NC | 72,137 | 74.78% | 31.68% |
| ***Total Tons C&D Landfill*** | | ***96,462*** | | |
| **Special Wastes Disposal** | | | | |
| 3RC | Winston-Salem, NC | 2 | 66.67% | 0.00% |
| NC Dept. of Agriculture PDAP Program | Raleigh, NC | 1 | 33.33% | 0.00% |
| ***Total Tons Special Waste Disposal*** | | ***3*** | | |
| **Total Tons Waste Disposed** | | **227,731** | | |
| | | | | |
| **MSW Recycled** | | | | |
| Cabarrus County | | 3,462 | 69.97% | 1.52% |
| Harrisburg | | 646 | 13.06% | 0.28% |
| Kannapolis | | 0 | 0.00% | 0.00% |
| Midland | | 151 | 3.05% | 0.07% |
| Mount Pleasant | | 689 | 13.92% | 0.30% |
| ***Total Tons MSW Recycled*** | | ***4,948*** | | |
| **Yard Waste and Organics Recovery** | | | | |
| Cabarrus County | | 2,000 | 17.62% | 0.88% |
| Harrisburg | | 4,950 | 43.60% | 2.17% |
| Kannapolis | | 3,310 | 29.16% | 1.45% |
| Mount Pleasant | | 1,092 | 9.62% | 0.48% |
| ***Total Tons Yard Waste and Organics Recovery*** | | ***11,352*** | | |
| **Special Wastes Recovery** | | | | |
| Tires--U.S. Tire Recycling | Concord, NC | 2,162 | 97.00% | 0.95% |
| HHW--3RC | Winston-Salem, NC | 14 | 0.62% | 0.01% |
| Electronics--eCycleSecure | Charlotte, NC | 51 | 2.29% | 0.02% |
| Lamps/Batteries--Cleanlites | Spartanburg, SC | 2 | 0.09% | 0.00% |
| Used Motor Oil--FCC Environmental | Concord, NC | 23 | 1.03% | 0.01% |
| ***Total Special Waste Recovered*** | | ***2,229*** | | |
| **Total Waste Recovered** | | **18,529** | | |

# Section 4 – Waste Reduction Goal

## 4. a. Vision

Cabarrus County and its municipal partners continue to support and refine the vision and goals for managing solid waste that were established during the previous Plan Updates. The shared vision for the 2012-2022 planning period remains the same; to support a solid waste management system serving residents, institutions, and businesses that:

- Provides an increasing opportunity for waste and toxics reduction, reuse, and recycling using appropriate incentives, disincentives, and policies to motivate residents, institutions, and businesses;
- Ensures the availability of economical, secure, long-term municipal solid waste (MSW) disposal capacity for that waste which is not yet reduced;
- Offers a convenient system for residents, institutions, and businesses to recycle a wide range of materials including special wastes and yard wastes;
- Communicates easily understood information to all county waste generators on why they should and how they can reduce and recycle waste;
- Provides a plan and adequate facilities for the proper management of disaster debris;
- Is supported by a secure, transparent, and equitable funding system to cover the cost of the current and future solid waste management programs; and
- Realizes increased efficiencies and cost savings through continued inter-governmental partnerships and an appropriate mix of public and private sector services and facilities.

## 4. b. Waste Generation Rate

Fundamental to obtaining waste reduction goals for solid waste management by the jurisdictions in this plan's area shall be to continue the current programs for each planning element outlined in Section 6 of this plan. According to State Division of Waste Management calculations, these current activities have yielded a **per capita generation rate of 1.27 for FY 2011**. This is a **46% reduction of the 1.87 rate in 2007-08** from the time of the last three year update, but still 35% higher when compared to the 0.94 rate in the baseline year of 1991-92, and 28% higher than the 2010-11 state average rate of 0.99 tons per capita.

However, historically, the baseline and subsequent generation rates have been calculated incorrectly by including ALL C&D and MSW disposed of in Cabarrus County, including the City of Concord, which is NOT part of our planning area. Since the County and other municipalities cannot control what the City plans, we cannot speak to the achievability of the number calculated in the

Waste Reduction Goal Sheet, found as Appendix C. We do strongly believe that the County and jurisdictions in the plan will be able to meet the goal set hereunder for the wastes that we do control.

An additional difficulty is the state 1991-92 benchmark for waste generation includes not just MSW, but all LANDFILLED wastes, including CII and C&D wastes for which local communities traditionally have had much less influence over the reduction and recovery activities and resultant generation data. Because of the large percentage of the total disposed quantity that comes from C&D and CII sectors, it is impossible to have a significant impact on overall reduction without significant efforts to encourage recovery and reporting of this progress. Inherent difficulties in controlling the activities in these sectors causes the wide swings in annual rates shown above.

C&D wastes are economically and geographically quite cyclical. The disposal rate may be atypically high in counties which may have a burst of growth, skewing the trends of waste reduction in other sectors. As an extreme example of this fact from the last three year update, Cabarrus County reported that in 2005-06 the per capita waste generation rate was 2.89, a 100% increase over the previous year, and a tripling from the baseline of 0.94. This spike is attributable to a one-time local historic event: the razing of the huge Cannon Mills/Pillowtex complex in Kannapolis. While there are waste generation totals for C&D, they are also subject to vagaries of accurately reporting the county of origin, and we cannot show any offsetting reductions for there are no requirements for reporting recovery of C&D wastes. This sector also suffers from a limited private market infrastructure for recycled materials.

Given the intractable nature of these above factors on the ability of local municipalities in the State to measurably reduce waste generation by the State's 1989 goal of 40% per capita by 2001, and because of the dispiriting effect this has on local communities as they conduct their planning, Cabarrus County recommends that going forward, a *additional* benchmark standard be added for analysis--the MSW Waste Diversion Rate; a common planning tool used in most other states. This would look exclusively at MSW disposal and recovery in the sectors over which local governments have the most control, and thus provide better feedback on the measurable progress of program efforts over which most local governments can exert their influence and control.

## 4. c. Ten-Year Goal

The elements listed below have been proposed to report a **reduction of waste generation by 40%** from the benchmark year by 2022, as calculated in the WASTE REDUCTION GOAL SHEET shown in Appendix C.

The following are summarized **Intended Actions** from Section 6 which will have the greatest potential to meet this recovery goal in Cabarrus County over the next ten years:

- Provide 96-gallon carts to most communities to increase residential recycling capacity, variety, and convenience

- Add yard waste collection for composting to the basic service package for collections in the County's unincorporated area
- Increase compost capacity at the County landfill
- Increase public recycling and food waste collections
- Improve the techniques and increase intensity of education efforts across all waste generation sectors and provide better coordination between local jurisdictions to leverage effectiveness
- Target recovery increases at local businesses and institutions, especially food waste recovery
- Work with CII entities to assess and reduce their waste and to provide reporting of their recovery data; add CESQG eligibility for use of County HHW facility.
- Improve access to C&D recycling to all waste generation sectors and improve reporting
- Sponsor electronics collections and HHW events in partnership with municipalities to add convenience for rural areas
- Partner with businesses and organizations involved in reuse to expand public awareness and support for used products.

# Section 5 – Waste Handling Characterization

This section outlines the overall waste flows in the County, from generator type to ultimate disposal. For details on each community's specific programs, see Section 6.

## 5. a. Municipal Solid Waste

### 5. a. 1. Residential

**Collection—**

All local jurisdictions provide residential curbside collection of recyclables and refuse to single family/duplex units. Residents place materials in containers and take to curb on scheduled days. Contracted hauler collects refuse and recyclables at curbside, with the exception of Mount Pleasant, which uses municipal crews for refuse, and a contracted hauler for recyclables. Residents of unincorporated Cabarrus County may choose to either subscribe with the franchised hauler licensed to the County, or can self-haul refuse and recyclables to the Cabarrus County C&D Landfill Convenience Center, and also can self-haul recyclables and household hazardous wastes to the County HHW Facility and Convenience Center and place items into appropriate bins.

Multi-unit dwellers use containers contracted for by owners with private haulers or self-haul to appropriate facilities.

Some municipalities provide yard waste collection:

- Kannapolis provides every-other-week loose leaf collection in season, as well as weekly collections of bagged materials under contract with Waste Management
- Harrisburg provides weekly collections by municipal crews
- Mount Pleasant provides weekly collection as well as loose leaf collection in season with municipal crews.

Residents living in Midland and the unincorporated areas of the County are not provided yard waste collection. They must either self-haul to the County C&D Landfill or apply for a burning permit, if eligible.

**Disposal—**

Under terms of the County franchise agreement, all municipally-contracted or collected refuse is taken to Republic Services' CMS Landfill in Concord. Multi-unit haulers and self-hauling residents are free to take to facility of their choice; see Table 5-1 for the destinations of waste generated in Cabarrus County

**Recycling—**

All curbside-collected and County drop off recyclables are currently taken by contracted haulers to SONOCO Recycling's Charlotte Materials Recovery Facility for processing and marketing. Multi-unit private haulers and self-hauling residents are free to take to facility of their choice.

**Composting—**

All residentially-collected yard wastes are processed by the respective municipalities. Mount Pleasant has a Type 1 processing facility, as does Cabarrus County. Harrisburg uses the Greenway Waste Solutions composting facility in Harrisburg. Self-hauling residents are free to take to facility of their choice.

**Household Hazardous Waste (HHW)/Special Wastes—**

The County's HHW Facility is open to all County residents to drop off both special wastes daily and HHW on two permitted days; the first Wednesday and third Saturday each month.

## 5. a. 2. Commercial, Industrial and Institutional (CII)

Most CII generators use private hauler arrangements for their refuse disposal, recycling and composting services. Exceptions are:

- Town of Mount Pleasant provides municipal facilities and small businesses with containers for refuse and recyclables
- Cabarrus County provides recycling collection of mixed paper to Cabarrus County Schools as well as county facilities

**Collection—**

- Most larger CII generators place refuse into front load dumpsters for private hauler pick up.
- Some larger generators place refuse into compactors on site which are serviced by private haulers (or Cabarrus County for some County facilities).
- Kannapolis City Schools use front load dumpsters for both refuse and single stream recyclables collection provided by through the City of Kannapolis' contract with Waste Management.
- Some larger generators place corrugated cardboard into front load dumpsters for recycling.
- Most ABC-licensed facilities have 96-gallon cart service or other small containers for recycling beverage containers.

- County facilities are served by 96-gallon recycling carts; paper collected by County staff and bottles and cans under franchise agreement terms by Republic Services.
- Municipal facilities recycling collections are done by municipal staffs.
- Some CII generators choose to self-haul recyclables to any of the three County-operated drop-off centers.
- Many CII generators use commercial landscape firms who remove yard trimmings

**Disposal—**

Private haulers make their own arrangements for disposal locations, although most choose the CMS Landfill due to its proximity in Concord. Table 5-1 shows locations other than CMS Landfill that are recipients of wastes generated by CII generators.

**Recycling—**

Private Haulers are in most cases are free to choose process facilities. Most use either the Metrolina Recycling Center in Charlotte, owned by Mecklenburg County and operated by FCR; or SONOCO's Charlotte MRF. Materials collected by Waste Management are directed under contract terms with Kannapolis to SONOCO. County and Mount Pleasant-collected recyclables go to SONOCO as well.

**Composting—**

Private generators and haulers make their own decisions about which facility to use for yard waste processing.

**Hazardous Waste/Special Wastes—**

CII establishments make their own arrangements for hazardous and special wastes. The County HHW Facility accepts electronics from small business.

# 5. b. Construction and Demolition Waste

C&D wastes generated in the County, whether by homeowner, contractor, or CII source can go to any licensed C&D disposal or recycling facility. As a practical matter due to limiting hauling distance and cost, most such waste documented goes to either the Cabarrus County C&D Landfill, or Highway 49 C&D Landfill and Recycling Center both located in Concord.

## 5. b. 1. Residential

Residential generators of C&D wastes must make their own arrangements for removal of C&D wastes. This may include making building contractor responsible, or using bulky waste pick ups with contracted hauler in Harrisburg or by municipal crews in Mount Pleasant. In the rest of the planning area, residents must hire a hauler or self-haul to one of the facilities listed above.

**Table 5-1 County Waste Disposal Report By Facility**

| Facility Type | Facility Name | ID # | Permit # | Tons Received | Tons Transferred |
|---|---|---|---|---|---|
| CD LF | Cabarrus County CDLF | P0796 | 1302-CDLF-2006 | 24,324.72 | |
| CD LF | Highway 49 C&D Landfill and Recycling (Greenway) | P0946 | 1306-CDLF-2000 | 72,136.83 | |
| CD LF | BFI-Lake Norman Landfill | P0865 | 5504-CDLF-1999 | 15.91 | |
| MatRe TP | Uwharrie Environmental MRF | P0468 | 6202MRF-MWP | 16.68 | 11.66 |
| MatRe TP | Boggs Paving Asphalt Shingle Recycling | P1180 | 9008-TP-2009 | 846.00 | 33.48 |
| MSW LF | Chambers Development MSWLF | P0976 | 0403-MSWLF-2010 | 1,245.59 | |
| MSW LF | BFI-Charlotte Motor Speedway Landfill V | P0470 | 1304-MSWLF-1992 | 121,499.18 | |
| MSW LF | Rowan County Landfill | P0169 | 8003-MSWLF-1988 | 8,504.85 | |
| Compost | Greenway Waste Solutions of Harrisburg | P1080 | 1309-COMPOST | 8,918.07 | |

### 5. b. 2. CII

CII generators also make their own private arrangements for hauling and disposal and/or recycling of C&D wastes. Container types and sorting requirements are worked out between generator and hauler, based on cost and any recycling requirements the projects may have (e.g. Green Building Council LEED).

## 5. c. Land Clearing and Inert Debris

LCID is handled for both Residential and CII generators through private haulers and taken to disposal facilities of their choosing. Cabarrus County has two LCID permitted facilities: Cabarrus LCID Landfill and Tarheel Bark Processing.

## 5. d. White Goods

### 5. d. 1. Residential

**Collection—**

White goods generated in County households are generally handled by contracted or municipal waste haulers as follows:

- *City of Kannapolis—*
  Residents place items out at curbside for city contractor Waste Management to pick up.

- *Town of Harrisburg—*
  Residents call to request pick up, which is done by municipal crews.

- *Town of Midland—*
  Residents contact contracted hauler or other private hauler. Contracted hauler charges $35 for the first item and $15 for each subsequent item. Town also does bi-annual collections events where residents can bring white and brown goods.

- *Town of Mount Pleasant—*
  Residents place up to 3 items weekly at curb and can request a pick-up, or municipal crews pick up on sight.

- *Unincorporated Cabarrus County—*
  If a subscriber to current franchise hauler, Republic Services, resident calls to arrange pick up. There is an additional charge of $15 added to their invoice for each item.

- *All Jurisdictions—*
  Residents may always choose to self-haul to either the County's Landfill or HHW Facility's Convenience Centers at no charge.

Scavenging for scrap metal, including white goods has been an increasing phenomenon since the last Solid Waste Management Plan Update. Often haulers will report that the item which a customer called in is not there when the crew arrives. Cabarrus County has seen a 50% reduction in White Goods delivered since the last reporting year of the previous Plan update.

**Disposal—**

Most residentially-generated white goods are delivered by public and private haulers to either the County's Landfill or HHW locations. White goods deposited at the Landfill are hauled to a white goods management area at the HHW Facility where they are staged until pick up by contracted scrap metal broker. Cabarrus County has a current contract with State Line Scrap Metal in Gastonia, which expires 9/2013. State Line provides all refrigerant removal services.

The exception to using the County white goods facility is the Town of Harrisburg, who stages and delivers white goods to Foils, Inc. in Concord that also provides the refrigerant removal service.

### 5. d. 2. CII

CII generators all make arrangements with private haulers to collect and dispose of white goods, or they self-haul to various scrap metal dealers or to one of the two County locations.

## 5. e. Scrap Tires

### 5. e. 1. Residential

**Collection—**

When residents need tires replaced on a passenger vehicle, the tires replaced are usually handled by retailers who assess a disposal fee.

For those tires not accepted at retail, Cabarrus County accepts up to 5 passenger vehicle tires per day at its two convenience centers at no charge to residents.

No municipality provides pick up service for tires.

**Disposal—**

Tires accepted by retailers are hauled to recyclers of their choosing.

All tires accepted by Cabarrus County are sent under contract to U. S. Tire Recycling in Concord.

### 5. e. 2. CII

Generators in this sector make their own arrangements with private haulers or may self-haul to a tire processor.

## 5. f. Electronics

### 5. f. 1. Residential

**Collection—**

No municipality in this plan collects electronics at curbside. All residents are directed to self-haul to one of the two County Convenience Centers, a City of Kannapolis Drop-Off facility, or to any number of private retailer-based locations, non-profit agencies, or mail back programs.

**Disposal—**

Electronics collected by the County and Kannapolis are picked up by contractor eCycleSecure in Charlotte. Private collection operators make their own market arrangements.

## 5. f. 2. CII

Most CII generators make their own arrangements for collection with a private processor. Small businesses may deliver electronics to the County HHW Facility location.

# Section 6 – Assessment and Actions

## 6. a. Reduction at the Source

All local governments offer varying levels of support of public education and outreach activities that deal with source reduction in all sectors.

### 6. a. 1. Residential

**Current:**

Cabarrus County is the primary provider of source reduction promotion and programs for residents. This includes providing information on their web site, as well as several educational, public outreach, and other programs to help reduce the amount of waste generated and landfilled. These include:

- The quarterly newsletter "Resource Roundup" which provides tips and information about specific source reduction opportunities such as junk mail reduction, etc.;
- Educational events organized throughout the year, including celebrations of Earth Day, Cabarrus County Fair, and other community events that promote reduction and recycling.

Other source reduction programs offered include programs on grasscycling, backyard composting, xeriscaping, and alternatives to household toxics.

The City of Kannapolis provides programming on various topics at their annual Kannapolis Cares Day, and uses a blog on the city website. The Town of Midland has source reduction information on its web page and in a column in its quarterly newsletter.

**Intended Actions:**

*Cabarrus County*

- *Continue to provide waste reduction information on many channels, including community TV, web, and social media*
- *Include source reduction in programs offered to community organizations, and at community events throughout the year*

*Midland*

- *Increase information on town website*

*Mount Pleasant*

- *Coordinate with County to increase information to residents*

### 6. a. 2. Commercial, Institutional, Industrial (CII)

**Current:**

All jurisdictions have taken steps to reduce in-house facilities waste generation through increased use of electronic communications and other means. Only Cabarrus County provides waste reduction technical assistance to schools and other CII generators in the county plan area.

**Intended Actions:**

*Cabarrus County*

- *Expand work with local businesses and industries to further their waste reduction efforts*
- *Incorporate source reduction into programs offered at schools and coordinate with district to encourage more student involvement*

## 6. b. Collection

### 6. b. 1. Residential

Cabarrus County operates under a franchise agreement with Republic Services for all residents in the unincorporated county that subscribe for residential refuse collection. The franchise agreement expires on December 2012. Discussions are on-going at this writing on the merits of renewing the franchise or going out to bid for a new five year contract. Alternatively, containers for municipal solid waste (MSW) disposal are provided for self-haul at the County's convenience center located at the County-operated C&D landfill site.

Collection frequencies, providers, and methods vary among the municipal jurisdictions, but there are some similarities. Republic Services, in addition to being under contract with the County also serves Midland and Harrisburg for solid waste collection. Midland is finalizing a bid process at this time to choose a collector for the next five years. Harrisburg will be going out to bid some time later this year, as their contract expires July 2013.

The Town of Mount Pleasant uses its own fleet of vehicles and personnel to collect solid waste. The City of Kannapolis is under contract with Waste Management for weekly solid waste collection.

Bulky waste collection is offered in unincorporated Cabarrus County and all municipalities except Midland on a weekly or by-request basis at no cost to the residents, and residents can still self-haul bulky waste to the landfill convenience center for a fee. The definition and quantities of bulky waste vary by municipal contract. Midland has community collection days for bulky wastes twice each year.

**Intended Actions:**

*Cabarrus County*

- *Establish new franchise for collection service for residents in unincorporated area of county*

*Harrisburg*

- *Establish new collection contract for residential service*

*Midland*

- *Establish new collection contract for residential service*
- *Evaluate possibility of adding bulky waste pick up*

## 6. b. 2. Commercial, Institutional, Industrial (CII)

**Current:**

The majority of CII generated solid waste is collected by private haulers on the open market. The exception: the Town of Mount Pleasant provides cart service to small businesses/apartments.

**Intended Actions:**

*No change is expected in the arrangement of CII collection.*

# 6. c. Recycling and Reuse

## 6. c. 1. Residential

**Current:**

The Cabarrus County recycling program consists of curbside recycling for single-family/duplex residents in incorporated and unincorporated areas and three recycling drop-off centers throughout the county for apartment dwellers and those choosing not to subscribe for service. All Cabarrus County jurisdictions provide curbside collection of residential recyclables using a private contractor, with the exception of Mount Pleasant, which also collects from multi-family buildings. As noted in 6. b. 1., Collection above, residents of unincorporated Cabarrus County may subscribe with Republic services for waste management under franchise arrangement, which is under review at this writing.

All eligible residents, with the exception of those in Kannapolis, are issued an 18-gallon bin. The City of Kannapolis has a curbside recycling program using 96-gallon carts provided under contract with Waste Management. This program was implemented July, 2011 for a five year term.

Traditional household recyclables are collected at curbside on a weekly, single-stream basis by all jurisdictions except Kannapolis whose residents have an every-other-week schedule.

**Items Collected:**

All curbside and drop off programs collect:

- glass containers
- steel and aluminum cans
- all plastic bottles
- mixed residential paper (newspaper, magazines, catalogs, phone books, junk mail, office paper)
- cardboard

The Town of Midland also accepts the following in their curbside program:

- aerosol cans
- bulky rigid plastics

In addition to all the above, the City of Kannapolis accepts these additional items at the curb:

- spiral (paper-metal) cans
- milk cartons/juice boxes

Alternatively, residents can drop-off recyclables at County-operated Convenience Centers and one Drop-Off Recycling Station.

The County-operated convenience center at the Cabarrus County C&D Landfill is open to the public Monday through Friday 8:00 a.m. to 5:00 p.m. and Saturday 8:00 a.m. to 2:00 p.m. The HHW Facility convenience center, located in Concord, accepts non-hazardous recyclable material every weekday from 8:00 a.m. to 5:00 p.m, as well as during the third Saturday HHW collection event.

In addition to the traditional recyclables shown above, these convenience centers also accept scrap metal, white goods, tires, used cooking oil, motor oil and filters, antifreeze, batteries, and electronics, printer cartridges, and undeveloped photographic film. Yard waste is accepted only at the Landfill center.

The County also operates a drop-off recycling center in Kannapolis, in the Bi-Lo shopping center, which is open 24/7 and accepts only the common recyclables listed above for all curbside programs.

A latex paint swap shop is in use at the HHW facility that distributes reused paints to county residents and organizations.

The Town of Mount Pleasant also offers a corrugated cardboard recycling drop-off station for residential and business use.

Cabarrus County Parks has implemented a program to provide public space recycling of bottles and cans at each of the three County parks. Cabarrus County also has public recycling containers in the Governmental Center and Library entrances, and offers recycling at the County Fair and other public events.

**Intended Actions:**

*Cabarrus County*

- *Increase recovery through 96-gallon cart service accepting more item types*
- *Enhance recovery of container recycling at County Fair*
- *Coordinate with municipalities to increase recycling recovery at community events*

- *Coordinate partnerships with reuse businesses and organizations in the County and to spread public awareness and acceptance of used products.*

*Harrisburg*

- *Investigate recycling collection program in town parks*

*Midland*

- *Increase recovery through 96-gallon cart service accepting more item types*
- *Add public recycling to the Thread Trail once developed*

## 6. c. 2. CII Recycling and Reuse Programs

**Current:**

CII establishments may participate in recycling by contracting with a private hauler. Collection services for conventional recyclables are relatively available for both large and small establishments. Cabarrus County's three multi-material recycling drop-off facilities accept several types of materials from businesses, including cardboard, computers, electronics, and scrap metal.

Cabarrus County offers technical assistance to CII establishments in the following ways:

- Identify recycling haulers
- Provide recommendations on self-waste assessments
- Assist with the design of a collection system
- Encourage voluntary reporting of recovery data

The Town of Mount Pleasant also allows businesses to use its curbside recycling program and sponsors a community-accessible corrugated cardboard drop off station open to residents and businesses.

Cabarrus County and Kannapolis, in partnership with the City of Concord, are providing recycling for mixed paper and rigid containers in each school in the Cabarrus County and Kannapolis City School Districts, as well as the two campuses of the Rowan Cabarrus Community College (RCCC) located in the County. Each K-12 classroom has been provided one recycling container. In addition, roll out carts have also been distributed. City and County rear-loading

compactor trucks collect from each Cabarrus County school and RCCC, while Kannapolis uses curbside contractor Waste Management to provide its collection in the Kannapolis City district.

All jurisdictions provide in-house recycling programs. The County operates an internal electronics, print cartridge, and office paper collection program. The County rear-loading truck is used for mixed paper collections and Republic Services provides collection of commingled bottles and cans under the County's franchise agreement. Traditional recyclables such as glass, plastic, and aluminum and steel cans are collected from all County offices on a weekly basis. Furthermore, the County has a departmental surplus supply online swap shop.

North Carolina House Bill (HB) 1518, requires establishments with Alcoholic Beverage Control (ABC) permits to separate, store, and recycle all recyclable beverage containers. The County has provided technical assistance in collection systems and help in finding private collectors and provision of drop-off opportunities.

Surplus supplies not used in County operations are provided to local non-profit agencies in periodic give-away events.

**Intended Actions:**

*Cabarrus County*

- *Improve recovery from schools by adding materials from food preparation areas*
- *Reach out to local institutions and businesses to offer waste assessment services*
- *Explore adding CESQG generator access to HHW facility*

*Harrisburg*

- *Improve in-house office paper recycling performance*

## 6. c. 3. C&D Recycling

**Current:**

The County is examining the feasibility of recycling C&D wastes disposed at their landfill. County works with C&D producing companies to recycle and reuse materials

**Intended Actions:**

*Cabarrus County*

- *Encourage voluntary reporting of private recycling efforts*

## 6. d. Composting and Mulching

**Current:**

Three municipalities collect yard waste. Cabarrus County accepts yard waste at the landfill but does not currently offer curbside pick-up.

- The Town of Harrisburg collects loose leaves, grass clippings, and limbs on a weekly basis. Residents that have yard waste exceeding a full truckload (16'x6'x4') are charged $100. The yard waste collected by the Town is processed at the Greenways Reprocessing Center in Harrisburg.

- The City of Kannapolis is under contract with Waste Management to provide yard waste collection services. Loose leaves, limbs, and bagged yard waste is collected in season beginning mid-October and ending late winter on a bi-weekly basis. Yard waste is picked-up on a weekly basis during non-leaf season. Yard waste collected by the City is processed at a City-owned collection site. Compost generated from the yard waste is given away annually at no cost to residents. Approximately 3,500 tons of compost is given away by the City of Kannapolis on a yearly basis while some of the compost is used for internal landscaping projects.

- The Town of Mount Pleasant collects yard waste such as limbs and grass clippings on a weekly basis. In addition, during the non-leaf collection period the town will pickup leaves placed in transparent bags. Loose leaves are collected during leaf season beginning on October 1. Residents are notified by public notice on water bills when the loose leaf season ends. A majority of the yard waste collected goes to a Town-run, Type 1 facility where it is composted and used for internal landscaping projects.

- The County accepts yard waste from residents at the County landfill and charges fees based on the volume disposed. In addition, residents are allowed to drop-off Christmas trees for recycling beginning December 26 until the end of January at no cost. All materials are processed on site at the landfill location. The County also offers composting programs to schools, community organizations, and at community events throughout the year. In FY 2011, the County distributed 65 bins for composting.

- The Town of Midland does not offer curbside yard waste collection. However, burn permits are made available to residents.

There are currently two permitted LCID facilities in Cabarrus County that accept yard waste. These include the Cabarrus LCID landfill and the Tar Heel Organic Reprocessing Facility located in Harrisburg. The yard waste is ground and resold as mulch.

Fats, oils, and greases (FOG) are a component of food waste that, when improperly disposed down drains clog sewer lines and cause backups. Both the HHW facility and County Landfill accept yellow grease (cooking oil) for recycling.

**Intended Actions:**

*Cabarrus County*

- *Include yard trash collection and composting in next collection Franchise for residents in the unincorporated areas of the County*
- *Continue to coordinate education with municipalities on FOG and to encourage collection at HHW and Landfill convenience centers*
- *Promote food waste collection in CII sector and public locations such at the County Fair and other public events*

*Town of Midland*

- *Investigate possible yard trash collection program*

## 6. e. Incineration with Energy Recovery

**Current:**

Waste incineration is not practiced in Cabarrus County, nor does any municipality utilize such a facility for disposal. Current estimates for development times are in the range of five to seven years – and potentially greater; because of the potentially long lead time associated with identifying a sufficient waste stream, siting, designing, permitting, negotiating an energy contract, procurement, financing, constructing, and startup testing of a waste-to-energy (WTE) facility, this option is the most expensive of the disposal technologies. They can be so costly to host communities that nationally they have forced some municipalities into bankruptcy.

**Intended Actions:**

*Because of the lead time required for such a facility, Cabarrus County does not plan to consider incineration with energy recovery during the next three years.*

## 6. f. Incineration without Energy Recovery

**Current:**

Cabarrus County does operate an incineration unit without energy recover at its Animal Control facility for disposal of euthanized stray animals. It also has been used by law enforcement for drug destruction.

**Intended Actions:**

*Due to the problems and concerns outlined above, there are no current intended actions established by the jurisdictions of Cabarrus County related to incineration*

## 6. g. Transfer

**Current:**

There are no transfer stations in Cabarrus County, and all county-generated wastes are directed to Republic's CMS Landfill in Concord under terms of the Franchise Agreement. Private hauling firms contracted by CII waste generators haul a small amount of waste outside of the County, although most is disposed at the CMS landfill.

Most recyclables are also transferred out of the county for processing.

It is anticipated that the amount of waste transferred out of the County for disposal will remain low for the next several years based on recent trends. Recyclable amounts are expected to increase, as no processing facility is anticipated in Cabarrus County.

**Intended Actions:**

*Cabarrus County*

- *In cooperation with municipalities, evaluate the need for a transfer station based on waste flow and utilization of potential alternative waste management sites*

## 6. h. Disposal

As of January 2012, there were ten permitted and active disposal facilities in Cabarrus County including one MSW landfill, two C&D landfills, two LCID facilities, two yard waste processing facilities, a medical waste disposal facility, and one tire facility and the County's HHW facility. Table 5-1 lists these disposal facilities. See Appendix A for a map of the locations.

## 6. h. 1. MSW Disposal

**Current:**

Under a County Franchise Agreement, final disposal for MSW from the residential sources of the municipalities, unincorporated areas, and the convenience center is at Republic's Charlotte Motor Speedway landfill (CMS) in Concord. While current discussions on a new Franchise Agreement are taking place, it is anticipated that MSW will likely continue to be disposed at the CMS landfill through the next Solid Waste Management Plan Update. Based on the average tons of MSW disposed per year, the CMS landfill currently has approximately 19 years of capacity remaining as of FY 2011.

**Intended Actions:**

*Cabarrus County*

- *Negotiate a new franchise agreement with Republic Services for use of the CMS landfill*

## 6. h. 2. C&D Disposal

**Current:**

There are currently two permitted and active C&D landfills in Cabarrus County: Highway 49 C&D Landfill and Recycling and the Cabarrus County C&D landfill. Cabarrus County is weighing whether to make another expansion or to close its facility. At the current rates of disposal, the facility will reach capacity mid to late 2013.

**Intended Actions:**

*Cabarrus County:*

- *Evaluate expansion or closure of the County's C&D Landfill*

## 6. h. 3. Land Clearing and Inert Debris Disposal

**Current:**

North Carolina solid waste regulations preclude disposal of land clearing and inert debris (LCID), including yard waste, in sanitary landfills. Management and disposal options for LCID include processing at compost/yard waste facilities or placement in LCID or C&D landfills. There are currently two permitted and active LCID facilities in Cabarrus County.

As shown in Table 3-3, the municipalities reported collection of 11,352 tons of yard waste in FY 2011.

In accordance with the County Emergency Operations Plan, the County C&D landfill facility will accept and process disaster related debris in the event of a disaster. Inflow of disaster related debris will not impinge on normal day to day disposal activities.

**Intended actions:**

*Cabarrus County*

- *Work with municipalities to standardize volume-to-weight conversion methodology for yard waste reporting*

# 6. i. Education

The Cabarrus County jurisdictions have long understood the importance and impact of solid waste-related education and outreach activities. Recycling, in particular, requires frequent, clear, and concise instructions to effect long-term participation and build familiarity with the ever increasing types of recyclable materials.

## 6. i. 1. Education for Residents

**Current:**
All Cabarrus County jurisdictions use their web sites to convey information regarding basic solid waste services including pickup schedules, procedures, acceptable materials, special waste pickups, fees, and contact information. Furthermore, all municipal jurisdictions have established links to Cabarrus County's web site as a means of providing a consistent and clear message for disposal, source reduction, recycling and toxic reductions opportunities available to all citizens of the County.

In addition are the following education efforts by jurisdiction:

**Cabarrus County—**

- Print brochures and recycling guides showing facility locations and acceptable material lists

- *Resource Roundup,* the quarterly newsletter developed by the County on waste reduction and recycling, is available to residents electronically by subscription through the County web site, as well as convenience centers, County governmental center, libraries, and some local businesses.

- The County routinely provides information for residents on the local government public access television channel.

- Special events such as the County Fair and Viva Verde Earth Fest provide an additional platform for the distribution of educational information on waste reduction and recycling Surveys are utilized at special events on HHW collection days to gauge community effectiveness and participation.

- Educational information on recycling is provided through school and organizational presentations. County staff is available to speak to schools, civic groups, neighborhood associations about solid waste and recycling issues.

- Staff members welcome the opportunity to participate in school science fairs, career days, and other events. In addition, they advise Girl and Boy Scouts working on environmental badges and projects.

**City of Kannapolis—**

- Provides residents with waste reduction and recycling information through the distribution of pamphlets, newspaper articles, mass mailings, and utility bills.

- The City has a Community Outreach Coordinator who speaks at community meetings and other events upon request. In addition, an Environmental Stewardship Committee was established in the spring of 2008 to assist with curbside recycling and other environmental issues.

**Town of Harrisburg—**

- Provides recycling information to residents on their water utility bill.

- Provides new resident packet of information on recycling.

**Town of Midland—**

- Produces a quarterly newsletter that provides residents information on refuse collection and recycling.

- Town holds a Festival on the 1st weekend of October with waste awareness displays

**Town of Mount Pleasant—**

- Provides pamphlets to residents that are available at Town Hall.
- Provides a feedback sheet to residents placing unacceptable materials in recycling bins.

**Intended Actions:**

*Cabarrus County*

- *Develop education and promotion campaign for proposed 96-gallon cart recycling for unincorporated County*
- *Increase coordination with municipalities, including City of Concord, in cross promotion of recycling using many channels of information*

*City of Kannapolis*

- *Evaluation of underperforming neighborhoods to target education efforts*

*Town of Midland*

- *Develop information on recycling program for new resident packet*
- *Develop education and promotion campaign for proposed 96-gallon cart recycling*
- *New contractor will be asked to provide support resources for schools and public events*

## 6. i. 2. Education for CII Establishments

**Current:**

As discussed above, Cabarrus County offers free technical assistance on waste assessments and assistance in establishing recycling programs for businesses. The County also provides

information specifically tailored to businesses on its web site and in publications on such topics as oil filter and ABC container recycling.

**Intended Actions:**

*Cabarrus County:*

- *Target efforts as a result of Waste Assessments performed*

### 6. i. 3. Education for Schools

**Current:**

The County Waste Reduction Coordinator visits local schools during the year to provide presentations on recycling and waste reduction.

Kannapolis provides support for can recycling contest in Kannapolis City Schools.

**Intended Actions:**

*Cabarrus County:*

- *Work with school administration to develop strategies to enhance faculty and student participation*

## 6. j. Management of Special Wastes

### 6. j. 1. Scrap Tires

**Current:**

Cabarrus County accepts waste passenger vehicle tires from County residents at the Landfill and HHW locations. There is no fee for tire disposal; however, residents are limited to 5 tires per visit.

The primary tire storage location for Cabarrus County is the county C&D landfill. Tires are stored in an enclosed roll off and are stacked in the roll off.

Tires are temporarily stacked at the county HHW facility and transported when received to the county C&D landfill.

US Tire is the contracted recycler/tire processor for Cabarrus County. Shipment is made to US Tire when roll off is full at the county C&D landfill.

Cost minimization activities include transporting tires only when roll off is full, optimizing placement of tires in roll off and checking documents for ineligible tires.

CII generators, Cabarrus County tire merchants and/or scrap tire haulers deliver waste tires directly to US Tire.

During FY 2011, 2162 tons of tires were collected.

**Intended Actions:**

*There are no intended actions for scrap tire management.*

## 6. j. 2. White Goods

**Current:**

White goods are collected at drop-off by the public at the HHW facility and at the Landfill locations during all open hours. White goods delivered to the Landfill are consolidated at the HHW facility for pick up by contracted vendor; currently State Line Scrap Metal. All refrigerant bearing white goods are segregated from non-refrigerant bearing white goods at the HHW facility. State Line personnel provide refrigerant removal and recycling service on these items. Refrigerant is evacuated from white goods, placed in tanks and sent to Polaris for destruction.

All of Cabarrus County's municipalities offer white goods collection either directly or through their contracted hauler. Three provide this service on a by-request basis while the City of Kannapolis offers this service weekly.

In October, 2011, the Town of Harrisburg began their own white goods and scrap metal management. Metals are sold to Foils, Inc. in Concord and they are responsible for Refrigerant removal.

During FY 2011, Cabarrus County was able to recover 215 tons of white goods and scrap metal that were brought to its multi-material recycling facilities by the jurisdictions, their contract haulers, and others. This is almost a 50% reduction from the last Update where in FY 2008 512 were collected. The economy that has driven people to steal air conditioning condensers and

strip wiring from homes is in large part responsible for this decrease. The trend is for this volume to continue to decrease as more individuals and scavengers market metal directly.

**Intended Actions:**

*Cabarrus County*

- *Evaluate adding value to diminishing volumes by sorting more valuable alloys*

*Harrisburg*

- *Continue to market on their own*

## 6. j. 3. Electronics Management Plan

**Current:**

Cabarrus County accepts electronics free of charge from residents at the HHW and Landfill Convenience Centers. The county has partnered with the City of Kannapolis on a collection site at their Public Works Operations Center at 1401 Bethpage Road. All electronic devices are accepted for reuse or recycling, including: computer systems, televisions, audio equipment, telephones, video equipment, and any other, non-radioactive, electronic device. Also accepted are digital and analog recording media.

Collection events will be scheduled to supplement the above-addressed Convenience Centers for the spike in demand for recycling service.

All electronics collected are picked up, transported and recycled by eCycleSecure, LLC. eCycleSecure, LLC currently holds a Responsible Recycling (R2) Certificate of Registration. See Appendix D for Electronics Recycling Services Agreement and R2 Certification.

**Public Awareness and Education**

A multi-faceted and multi-jurisdictional public awareness program is coordinated with the municipalities in the County. This includes, but is not limited to:

- Internet-based information, including placing information on local government web pages, direct e-mail, social networking sites, and referrals to other community–based and commercial reuse, recycling web-based sites and resources
- Direct mailings in utility bills and municipality newsletters.
- Use of local government cable TV
- Community organization and public school presentations
- Releases sent to local media
- Public Information phone numbers
- Information provided at recycling convenience centers

- Partnerships with retail and non-profit entities to reciprocally share information and to make referrals

**Collection Reports**

Tracking of and reporting on tonnages collected of televisions, computer equipment, and other electronic devices will be required of the selected vendor (currently eCycleSecure, LLC) which will provide the processing and marketing of collected electronics.

**Interactions with Other Units of Local Government**

The County will work with the municipalities in promoting the ban and the available reuse and recycling options. The County will also partner with each community to help coordinate collection opportunities for their residents.

**Accounting for State Funds**

Cabarrus County has established a separate account for deposit and expenditure of all state funds received pursuant to Session Law 2010-67, and will comply with all generally accepted accounting principles.

**Intended Actions:**

*Cabarrus County*

- Partner with Towns of Midland and Mount Pleasant on electronics collection events
- Add covered storage capacity at HHW Facility and provide weather-tolerant containers for each collection site

## 6. j. 4. Abandoned Manufactured Homes

Cabarrus County has considered and decided against a program, because it has determined that abandoned manufactured homes are not currently a significant threat to public health and the environment in the County. Midland's housing code requires maintenance of manufactured homes to prevent abandonment.

The County will continue to monitor the situation and if conditions warrant, will develop a written plan and included it in the next Solid Waste Management Plan Update.

## 6. j. 5. Household Hazardous Waste

**Current:**

The County operates a permanent HHW facility, which is located at 246 General Services Drive in Concord and is permitted to accept HHW materials from residents twice per month: on the first Wednesday from 8:00 am to 4:00 pm and the third Saturday from 8:00am to 1:00pm.

Private waste disposal firms remove and treat all but pesticides, which are handled by the NC Department of Agriculture's Pesticide Disposal Assistance Program.

During FY 2011, Cabarrus County collected approximately 32 tons of HHW. Materials accepted include: pesticides, herbicides, batteries, degreasers, fluorescent bulbs, paints, solvents, mercury thermometers, and others.

**Intended Actions:**

*Cabarrus County and Kannapolis:*

- *Evaluate an annual HHW collection event in Kannapolis*

## 6. j. 6. Oil Filters/ Used Motor Oil/Antifreeze

**Current:**

Used motor oil, filters, and antifreeze are accepted at the HHW facility and Landfill Convenience Centers during regular hours. Private firms remove and recycle of the used oil, filters, and antifreeze. Residents can also take these items to a number of retail and service locations.

**Intended Actions:**

*Cabarrus County:*

- *Continue to work with local auto parts retailers to cross promote collection*

## 6. j. 7. Fluorescent Lamps

**Current:**

Residential fluorescent lamp recycling is provided by Cabarrus County. Compact Fluorescent Lamps (CFLs) are accepted at most county office buildings for recycling during regular business hours. CFLs and fluorescent tubes are accepted at the County HHW Facility on HHW collection event days.

CII entities are provided references to local recyclers and mail back programs.

All jurisdictions comply with state law requirements for in-house facility fluorescent lamp and mercury thermostat management.

**Intended Actions:**

*No further actions are anticipated during this planning period.*

## 6. k. Prevention of Illegal Disposal and Management of Litter

**Current:**

Curbside solid waste services are available to nearly all Cabarrus County's residents. The remaining residents have access to the various drop-off centers for refuse, recyclables, and special wastes. Together, the curbside and drop-off opportunities help reduce the amount of illegal dumping and littering in the County.

Unfortunately, litter and illegal dumping still occurs and in response, the local jurisdictions have taken actions to better understand and prevent these activities from recurring and have initiated efforts to clean-up after they occur. Some of the current programs addressing litter and illegal dumping include:

- Municipal Adopt-A-Street (Kannapolis)
- Municipal Adopt-A-Stream (Kannapolis)
- NC DOT Adopt-A-Highway
- NC DOT Litter Sweep
- NC DOC Inmate Crews
- NC DOT Maintenance Crews

- NC DOT Tarp Day

The County and jurisdictions consider illegal disposal a minor problem and use the Sheriff's Department to investigate complaints with the exception of the City of Kannapolis. The City of Kannapolis has a moderate problem with illegal disposal and uses City personnel to investigate complaints. Civil penalties and corrective measures are implemented as necessary to discourage illegal disposal.

**Intended Actions:**

*Cabarrus County:*

- *Monitor litter problem for possible future remediation plans*

## 6. I. Purchase of Recycled Materials and Products Manufactured with Recycled Materials

**Current:**

The County encourages their governmental departments to purchase recycled products and has established policies in place which set "buy-recycled" requirements. This is done largely through limiting the choices of office supplies which can be ordered through its contracted vendor to those which have recycled content. None of the municipalities has a formal buy recycled policy.

**Intended Actions:**

*Midland*

- *Is evaluating such a policy*

# Section 7 – Solid Waste Management Cost

## 7.a. Waste Management Costs

Table 7-1 summarizes the data from 2010-11 Solid Waste and Materials Management Annual Reports from the respective jurisdictions. Each municipality has developed its costs assumptions independently, thus no standardized interpretation or methodology unifies these aggregate cost totals.

This table does not include any totals from the private subscriptions from the franchise service provided approximately 14,000 households with subscription contracts in unincorporated Cabarrus County, nor any CII generation costs.

**Table 7-1 Cabarrus County Solid Waste Management Costs**

| | # of Households served | Tons Collected | Collection Cost*** | Disposal Cost (tipping fees paid)**** | Total Cost including overhead | Calculated Cost Per Ton Managed |
|---|---|---|---|---|---|---|
| **Municipal Solid Waste*** | 37,005 | 36,353 | $1,626,103 | $ 668,508 | $5,996,663 | $164.96 |
| **Recycling Program**** | 37,005 | 4,317 | $53,946 | 0 | $911,856 | $221.22 |
| **Yard Waste Program** | 43,101 | 8,321 | | $730,297 | $1,682,981 | $202.26 |
| **Calculated Totals:** | | 48,991 | | | $8,591,500 | $175.37 |

*for materials collected and sent for eventual disposal in a Municipal Solid Waste Landfill
**for entire range of waste reduction and recycling programs operated including those services offered to commercial and industrial generators
***Collection costs were not reported by all jurisdictions; they have been included in total cost
****Disposal costs not reported by all jurisdictions; they have been included in total cost

**Intended Action:**

- *All jurisdictions will meet to discuss standardization of full cost accounting process*

# 7.b. Financing Methods by Jurisdiction

**Cabarrus County**

- ✓ Property Taxes/General Fund
- ✓ Tipping Fees
- ✓ Volume/Weight-Based Fee
- ✓ Sale of Recyclables
- ✓ Grants
- ✓ Tire Tax
- ✓ White Goods Tax
- ✓ Disposal Tax
- ✓ Electronics Management Fund

**City of Kannapolis**

- ✓ Property Taxes/General Fund

**Town of Harrisburg**

- ✓ Property Taxes/General Fund

**Town of Midland**

- ✓ Property Taxes/General Fund

**Town of Mount Pleasant**

- ✓ Property Taxes/General Fund
- ✓ Volume/Weight-Based fee

# Section 8 – Emergency/Disaster Debris Management and Animal Mortality

Cabarrus County is finalizing its first Emergency Operations Plan, which includes Disaster Debris Management and Animal Mortality plans. This document is not expected to be finalized before this Solid Waste Management Plan Update is due, so we have listed below the sites which were approved at the time of the last Update.

The municipalities in the County either self-perform or contract for debris removal. As part of the disaster management plan, in the event of a disaster situation, the County Solid Waste Department would coordinate disposal services Public information notices would be sent via media outlets to inform citizens of proper disposal methods.

These are the currently-approved sites for Debris Management

- Propst Farm – Concord Farms Rd (N 35.38688 W 80.65852)
- Cabarrus County C&D Landfill – 4441 Irish Potato Rd.
- BFI Speedway Landfill – 5105 Morehead Rd., Concord
- Alford M. Brown Operating Center, 850 Warren Coleman Blvd, Concord

**Intended Action:**

*Cabarrus County*

- *Complete Disaster Debris Management component of Emergency Operations Plan, include HHW and Special Waste recovery, and post to web site*

# Section 9 – Resolutions

Resolutions from the jurisdictions are attached as Appendix F.

# Section 10 – Ordinances

**Cabarrus County—**

http://infohouse.p2ric.org/ref/11/10631.pdf (original, signed copy) or

http://library.municode.com/index.aspx?clientId=12658

**City of Kannapolis—**

http://library.municode.com/index.aspx?clientId=10086 and

http://www.cityofkannapolis.com/wp-content/uploads/2012/03/UDO-Article-11.pdf

**Town of Harrisburg—**

See Appendix G

# Appendix A

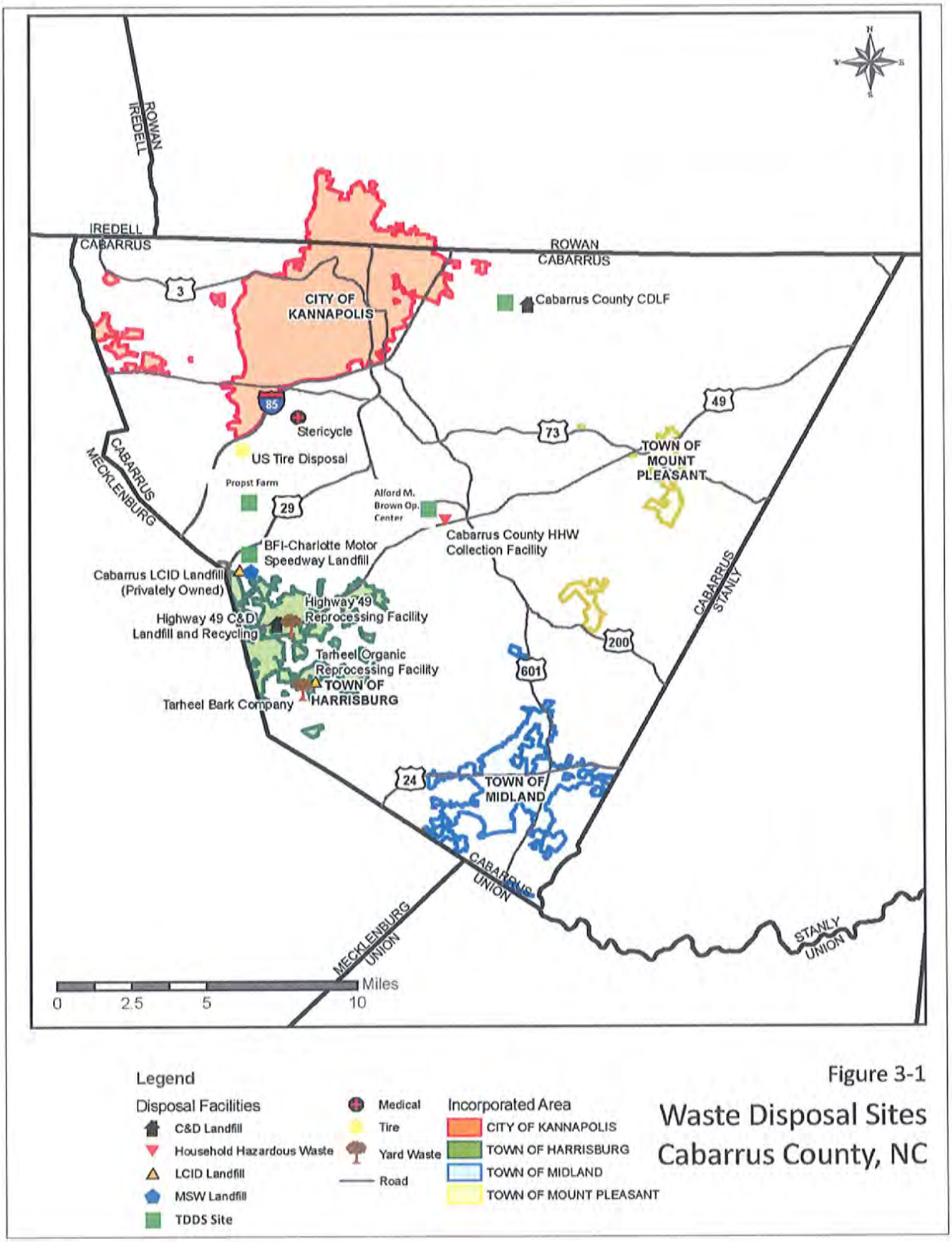


Figure 3-1

Waste Disposal Sites
Cabarrus County, NC

# Appendix B

**Independent Tribune**

**Advertising Affidavit**

| Account Number |
|---|
| 3143485 |

**North Carolina Community Newspapers**
**PO Box 968**
**Hickory, NC 28603**

| Date |
|---|
| May 02, 2012 |

CAB COUNTY-LEGAL DEPT
ATTN FABIOLA MONUMA-BOOKER
28 BRANCHVIEW DRIVE NE
CONCORD, NC 28025

| Date | Category | Description | Ad Number | Ad Size |
|---|---|---|---|---|
| 05/08/2012 | Legal Notices | Cabarrus County Solid Waste Management Plan Public Meetin | 0002641737 | 2 x 14 L |

**Cabarrus County Solid Waste Management Plan Public Meeting**

Cabarrus County Solid Waste Management is completing the required 3-year update to the Solid Waste Management Plan. A public meeting will be held to receive comments on Tuesday, May 15, 2012 from 5:00 to 7:00 p.m. in the Commissioners' Meeting Room (2nd Floor) of the Governmental Center, 65 Church Street SE in Concord. A copy of the document is available for review during normal business hours at the Governmental Center (County Manager's office) or at www.cabarruscounty.us. Questions should be directed to Kevin Grant at (704) 920-3209 or kpgrant@cabarruscounty.us. If reasonable accommodations are needed to participate in the meeting, please contact the ADA Coordinator at (704) 920-2100 at least 48 hours prior to the meeting.

Kevin Grant, Sustainability Manager

PUBLISH: May 2, 2012

Please see attached document

**Media General Operations, Inc.**

**Publisher of**

**Independent Tribune**

**Cabarrus County**

Before the undersigned, a Notary Public of Catawba County, North Carolina, duly commissioned, qualified, and authorized by law to administer oaths, in said County and State; that he/she is authorized to make this affidavit and sworn statement; that the notice or other legal advertisement, a copy of which is attached hereto, was published in the Independent Tribune on the following dates:

05/02/2012

and that the said newspaper in which such notice, or legal advertisement was published, was a newspaper meeting all the requirements and qualifications of Section 1-597 of the General Statutes of North Carolina.

Rachel Church
*Assistant Bookkeeper*

**Newspaper reference: 0002641737**

Sworn to and subscribed before me, this 2nd day of May, 2012

Evelyn L. Hefner
*Notary Public*

EVELYN L. HEFNER NOTARY PUBLIC CATAWBA COUNTY, NC

My Commission expires: March 11, 2014

THIS IS NOT A BILL. PLEASE PAY FROM INVOICE. THANK YOU

**Cabarrus County Solid Waste Management Plan Public Meeting**

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evin Grant, Sustainability Manager

**PUBLISH: May 2, 2012**

# Appendix C

## WASTE REDUCTION GOAL SHEET
## NC LOCAL GOVERNMENT TEN YEAR SOLID WASTE MANAGEMENT PLAN

Local Government Name: Cabarrus County

Previously established waste reduction goal: 5 %

After considering your government's current and projected solid waste activities, resources, population, and economic growth have you reached your previously established goal? No

Establish a new waste reduction goal: 40 %

### WASTE REDUCTION CALCULATION

To provide 10 years of solid waste management planning, as per G.S. 130A-309.09A(b), waste reduction goals need to be updated. Use the following chart to determine the tonnage needed to be diverted from landfills in order to reach the new waste reduction goal.

| CALCULATION | FY 2012 |
|---|---|
| 1. Baseline year per capita disposal rate<br>*(FY 1991-1992 unless alternate approved by Section)* | 0.94 |
| 2. Percent waste reduction goal | 40 % |
| 3. Targeted per capita disposal rate<br>(Subtract line 2 from 1.0 and multiply result by line 1) | 0.54 |
| 4. Estimated population in the new waste reduction goal year<br>(Available at Office of State Budget and Management website:<br>Projected Annual County Population Totals 2010-2019) | 227,749 |
| 5. Projected tonnage for disposal at baseline disposal rate<br>(Multiply line 1 by line 4) | 214,084 |
| 6. Targeted annual tonnage for disposal<br>(Multiply line 3 by line 4) | 122,984 |
| 7. Targeted annual tonnage to reduce<br>(Subtract line 6 from line 5) | 91,100 |

Population Link: http://www.osbm.state.nc.us/ncosbm/facts_and_figures/socioeconomic_data/population_estimates/demog/cpa2010p.html

### WASTE REDUCTION PLAN

Given the targeted annual tonnage amount to be reduced, explain how you plan to reach the goal:

Increase Residential Recycling by 50%
Increase Organics Recovery by 75%
Partner with CII to increase recovery and obtain reporting on efforts
Partner with C&D recyclers to increase recovery and obtain reporting on efforts
Reduction and Reuse education
Note that the 91,100 Ton target includes City of Concord's population factored into the calculation, though they are not part of this plan process.
http://www.osbm.state.nc.us/ncosbm/facts_and_figures/socioeconomic_data/population_estimates/demog/countytotals_2020_2029.html

# Appendix D

**ELECTRONICS RECYCLING**
**SERVICES AGREEMENT**

This Electronics Recycling Services ("Agreement") is made and entered into as of 9-13- 2011 ("Effective Date") by and between eCycleSecure LLC, a North Carolina limited liability company ("Company") with offices at 4300 North Lake Court, Suite K, Charlotte, NC 28216 and Cabarrus County, NC ("Customer") with offices at 65 Church St, SE, Concord, NC 28026-0707.

1. SCOPE OF SERVICES

1.1 Services to be Furnished. Company will provide the services for the recycling of electronics and other equipment ("Services") as described in this Agreement, including the ("Statement of Work ") attached hereto as Exhibit A or as otherwise mutually agreed.

2. FEES AND PAYMENTS

2.1 All standard fees and payments ("Fees") for Services under this Agreement shall be as specified in the Statement of Work.

3. CONFIDENTIALITY

3.1 Any disclosure of confidential information by one party to the other party shall be made in accordance with terms of a separately written confidentiality agreement as mutually agreed.

4. TERM AND TERMINATION

4.1 Term. This Agreement shall commence on the Effective Date set forth above and, unless otherwise terminated in accordance with Section 4.2, shall continue in effect for three (3) years, with automatic renewal for successive one-year terms, unless written notice of nonrenewal is delivered by either party to the other not less than ninety (90) days prior to the date of expiration of such term.

4.2 Termination. Either party may terminate this Agreement without cause upon sixty (60) days prior written notice. Upon termination, Customer shall return (or permit Company to retrieve) all Company bins, pallets, boxes, trailers and other property kept at Customer's site, and Company shall have no obligation to provide further Services to Customer.

5. INDEMNIFICATION

5.1 Company agrees to indemnify and hold Customer harmless from all claims, losses, expenses, fees including attorney fees, costs, and judgments that may be asserted against Customer that result from the acts or omissions of Company and/or Company's employees, agents, or representatives.

6. WARRANTY

6.1 Performance of Services. Company shall provide its services and meet its obligations under this Agreement in a timely and workmanlike manner in accordance Responsibly Recycling (R2) and as described on the Statement of Work.

6.2 Ownership Warranty. Customer warrants that it is the owner, legal custodian or otherwise has the right to deliver for recycling any and all materials Customer provides Company hereunder.

7. **REMEDIES.** In addition to any and all other rights a party may have available according to law, if a party defaults by failing to substantially perform any provision, term or condition of this Agreement (including without limitation the failure to make a monetary payment when due), the other party may terminate the Agreement by providing written notice to the defaulting party. This notice shall describe with sufficient detail the nature of the default. The party receiving such notice shall have 30 days from the effective date of such notice to cure the default(s). Unless waived by a party providing notice, the failure to cure the default(s) within such time period shall result in the automatic termination of this Agreement.

8. **ENTIRE AGREEMENT.** This Agreement contains the entire agreement of the parties, and there are no other promises or conditions in any other agreement whether oral or written concerning the subject matter of this Agreement. This Agreement supersedes any prior written or oral agreements between the parties.

9. **SEVERABILITY.** If any provision of this Agreement will be held to be invalid or unenforceable for any reason, the remaining provisions will continue to be valid and enforceable. If a court finds that any provision of this Agreement is invalid or unenforceable, but that by limiting such provision it would become valid and enforceable, then such provision will be deemed to be written, construed, and enforced as so limited.

10. **AMENDMENT.** This Agreement may be modified or amended in writing, if the writing is signed by the party obligated under the amendment.

11. **GOVERNING LAW.** This Agreement shall be construed in accordance with the laws of the State of North Carolina.

12. **NOTICE.** Any notice or communication required or permitted under this Agreement shall be sufficiently given if delivered in person or by certified mail, return receipt requested, to the address set forth in the opening paragraph or to such other address as one party may have furnished to the other in writing.

13. **ASSIGNMENT.** Neither party may assign or transfer this Agreement without the prior written consent of the non-assigning party, which approval shall not be unreasonably withheld.

Both parties agree that the laws of the State of North Carolina shall govern this Agreement.
IN WITNESS WHEREOF, the parties have duly executed this Contract as of the date first above written.

ECYCLESECURE, LLC

By: _____
Name: Brett Rhinehardt
Title: Vice President

This instrument has been preaudited in the manner required by the Local Government Budget and Fiscal Control Act.

By: _____
Finance Director

9/21/11

CUSTOMER

By: _____
Name: _____
Title: _____

**Exhibit A**
**Statement of Work**

1. Commencing upon the Effective Date, Company will provide Services to collect, remove and recycle electronic materials, as described below, from the Customer Collection Sites as detailed on Exhibit B attached hereto.
2. Electronic materials shall include, but not be limited to; televisions, computers, servers, printers, computer peripherals, monitors, cell phones, telephones, facsimile machines, power supplies, cameras and other information technology and consumer electronic devices ("eScrap").
3. Company will furnish a Certificate of Responsible Electronic Recycling, upon request by Customer.
4. Company will certify that it will reuse, recover and recycle all eScrap collected from the Customer in accordance with the guidelines of its Responsible Recycling (R2) Management System that conforms in every respect to all local, state and federal laws and regulations.
5. Customer agrees to package eScrap in Ropak boxes, in palletized Gaylord Boxes, directly on Pallets provided by Company, or as otherwise mutually agreed, and stored on site for pickup by Company as mutually agreed.
6. The Company will collect and remove the eScrap in full-truck load quantities within a reasonable time frame, but no later than ten (10) business days following request from the Customer and in a manner compatible with the Customer's storage and loading facilities.
7. Company will provide the Customer with the initial supply of Ropak boxes, Gaylord boxes and pallets for packaging eScrap as mutually agreed, and will exchange equal numbers of such containers at each collection.
8. At Customer's request, Company will provide supervision, packaging materials and transportation to collect and remove eScrap during Customer hosted collection events.
9. Customer will provide the site for the collection events and labor to collect and load the eScrap.
10. At the conclusion of the collection event, Company will remove the trailers loaded with eScrap from the site.
11. Customer will provide reasonable notice and coordinate the dates of such events to ensure that Company can plan to provide the resources to support the collection event.
12. The Company will ensure that all media and storage devices received from Customer will either be destroyed by physical means or other data sanitation in accordance the National Institute of Standards and Technology (NIST) Special Publication 800-88 Guidelines for Media Sanitation.
13. The Customer agrees to designate the collection sites as ("Collection Sites") for those original equipment manufacturers ("OEM") that participate in electronics recycling with the Company.
14. The services will be provided by the Company at **no charge** to the Customer.
15. The Customer will not charge the Company for the eScrap collected from the site.
16. No employees of the Company will be involved in the day-to-day operation of collecting, sorting or storing of the eScrap at Customer facilities intended for transport to the Company's facility.
17. The Company shall sort by category and weigh all eScrap received and provide statements to the Customer detailing the weights by category of eScrap received.
18. Customer shall not knowingly deliver to Company any material considered toxic or dangerous or which is regulated under any federal or state law or regulation relating to hazardous materials other than those materials included in eScrap. In the event of the accidental or negligent custodial transfer of hazardous or regulated waste, including bio-hazard, Customer agrees to arrange to appropriately, safely and legally assume custody of such hazardous materials at their expense, and further to indemnify the Company from any property damage or personal injury resulting from such transfer of material.
19. Customer agrees that all eScrap collected by Company is of no value to Customer and shall become the property of Company to be responsibly reused or recycled.
20. Company will have exclusive rights to the eScrap after Customer packages it for shipment in the fashion as mutually agreed. Customer will not knowingly permit, and shall make reasonable

efforts to prevent, the taking of sub-components, sub-assemblies, parts or other items of value from the collected eScrap by any person.

**Exhibit B**
**Collection Site Addresses**

Cabarrus County HHW Facility
246 General Services Dr.
Concord, NC 28026

Cabarrus County Solid Waste
4441 Irish Potato Rd.
Concord, NC 28025

# PERRY JOHNSON REGISTRARS, INC.

## Certificate of Registration

Perry Johnson Registrars, Inc., has assessed
the Environmental, Health and Safety Management System of:

**eCycleSecure**
**4300 Northlake Court, Suite K, Charlotte, NC 28216 United States**

(Hereinafter called the Organization) and hereby declares that the Organization has been audited by an ISO 17021 accredited certification body in conformance with applicable ANAB requirements and is found to be in conformance with all requirements of the

***Responsible Recycling© (R2) Rev. 10/2008***

This Registration is in respect to the following scope of supply:

***Collection, Transportation, Segregation, Destruction, Reuse, Recovery and Disposal of Electronics, and the Destruction of Digital Data***

Such products shall be manufactured by the Organization at, or such processes or services shall be offered at or from, only the address given above. This Registration is granted subject to the system rules governing the Registration referred to above, and the Organization hereby covenants with the Assessment body duty to observe and comply with the said rules.

For PJR:

Terry Boboige, President

Perry Johnson Registrars, Inc. (PJR)
755 West Big Beaver Road, Suite 1340
Troy, Michigan 48084
(248) 358-3388

Responsible Recycling R2 Perry Johnson Registrars, Inc.

ANAB ACCREDITED

PERRY JOHNSON REGISTRARS, INC.

The validity of this certificate is dependent upon ongoing surveillance.

| Effective Date: | Expiration Date: | Certificate No.: |
|---|---|---|
| February 25, 2011 | February 24, 2014 | C2011-00703 |

# Appendix E

# PLANNING ELEMENTS
# NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN

**Check appropriate element** **PLANNING YEARS 2012 through 2022**

- ☒ Reduction
- ☐ Transfer outside geographic area
- ☐ Composting and Mulching
- ☐ Disaster Response
- ☐ Education with community & through schools
- ☐ Incineration with/without energy recovery
- ☐ Illegal Disposal/Litter
- ☐ Collection of Computer Equipment and Televisions
- ☐ Management of Abandoned Manufactured Homes
- ☐ Disposal
- ☐ Purchasing Recycled Products
- ☐ Recycling and Reuse
- ☐ Collection
- ☐ Special Waste

| COMPLETED ACTIONS | INCOMPLETE ACTIONS | | NEW / REVISED ACTIONS | | |
|---|---|---|---|---|---|
| KEY ACTIONS | KEY ACTIONS | WHY INCOMPLETE? | KEY ACTIONS | DATE DUE | ESTIMATED TONS DIVERTED IN 10TH YEAR |
| 1) Cabarrus County is primary provided of source reduction education through various media<br><br>2) Cabarrus County provides technical assistance to CII<br><br>3) Kannapolis provides public programs and a city Blog<br><br>4) Midland offers information on its web site and newsletter | | | 1) Cabarrus County will continue current efforts and include source reduction in programs<br><br>2) Cabarrus County will reach out to CII to futhe waste reduction<br><br>3) Cabarrus County will work with schools to encourage more reduction<br><br>4) Midland will increase web information and continue newsletter<br><br>5) Mount Pleasant will coordinate with County to increase information to residents | Ongoing<br><br>Ongoing<br><br>Fall 2012<br><br>Ongoing<br><br>Ongoing | 500 |

# PLANNING ELEMENTS
# NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN

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- ☐ Management of Abandoned Manufactured Homes
- ☐ Disposal
- ☐ Purchasing Recycled Products
- ☐ Recycling and Reuse
- ☒ Collection
- ☐ Special Waste

| COMPLETED ACTIONS | INCOMPLETE ACTIONS | | NEW / REVISED ACTIONS | | |
|---|---|---|---|---|---|
| KEY ACTIONS | KEY ACTIONS | WHY INCOMPLETE? | KEY ACTIONS | DATE DUE | ESTIMATED TONS DIVERTED IN 10TH YEAR |
| (1)Cabarrus County has a franchise agreement for collection of MSW and recyclables for residents of unincorporated County<br><br>(2) Harrisburg, Kannapolis and Midland have contracts for community-wide residential curbside MSW and recyclables collection<br><br>(3) Town of Mount Pleasant provides collection services in-house.<br><br>(4) All CII wastes are by private hauler contract, except small business in Mount Pleasant | | | 1) Cabarrus County will establish a new collection franchise to include yard waste for composting and 96 gal recycling cart service.<br><br>2) Harrisburg will establish a new contract for collection<br><br>3) Midland will establish a new contract for collection; and<br><br>4) evaluate possibility of future bulky waste pick up | Summer 2012<br><br>Spring 2013<br><br>Spring 2012<br><br>2015 | |

# PLANNING ELEMENTS
# NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN

**Check appropriate element**

**PLANNING YEARS 2012 through 2022**

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- ☐ Disaster Response
- ☐ Education with community & through schools
- ☐ Incineration with/without energy recovery
- ☐ Illegal Disposal/Litter
- ☐ Collection of Computer Equipment and Televisions
- ☐ Management of Abandoned Manufactured Homes
- ☐ Disposal
- ☐ Purchasing Recycled Products
- ☒ Recycling and Reuse
- ☐ Collection
- ☐ Special Waste

| COMPLETED ACTIONS | INCOMPLETE ACTIONS | | NEW / REVISED ACTIONS | | |
|---|---|---|---|---|---|
| KEY ACTIONS | KEY ACTIONS | WHY INCOMPLETE? | KEY ACTIONS | DATE DUE | ESTIMATED TONS DIVERTED IN 10TH YEAR |
| 1) Cabarrus County provides drop off sites has a franchise agreement for curbside recycling. It also operates swap shop for paint reuse and gives surplus equipment to non-profits<br><br>2) Harrisburg, Midland, and Mount Pleasant offer 18 gal. bin curbside to residents<br><br>3) Kannapolis offers 96 gal. cart collection to residents and some institutions<br><br>4) Mount Pleasant offers curbside to small business<br><br>5) All communities provide in-house facility recycling<br><br>6) Cabarrus County Parks recycle containers from visitors | | | 1) Cabarrus County intends to continue existing programs; and<br>2) Provide 96 gal. carts to unincorporated area residents under franchise; and<br>3) Increase collections at County Fair and other events; and<br>4)Coordinate with municipalities to provide events recycling; and<br>5) Partner with and promote reuse businesses and organizations<br><br>6) Harrisburg will investigate recycling in Parks<br><br>7) Midland will use 96 gal. carts under new contract; and | Ongoing<br><br>Winter 2013<br><br>Fall 2012<br><br>Spring 2013<br><br>Summer 2013<br><br>Summer 2013<br><br>Summer 2012 | 7986 |

# PLANNING ELEMENTS
# NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN

**Check appropriate element** **PLANNING YEARS 2012 through 2022**

- ☐ Reduction
- ☐ Transfer outside geographic area
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- ☐ Management of Abandoned Manufactured Homes
- ☐ Disposal
- ☐ Purchasing Recycled Products
- ☒ Recycling and Reuse
- ☐ Collection
- ☐ Special Waste

| COMPLETED ACTIONS | INCOMPLETE ACTIONS | | NEW / REVISED ACTIONS | | |
|---|---|---|---|---|---|
| KEY ACTIONS | KEY ACTIONS | WHY INCOMPLETE? | KEY ACTIONS | DATE DUE | ESTIMATED TONS DIVERTED IN 10TH YEAR |
| 7) Cabarrus County provides technical assistance to CII generators<br><br>8) Cabarrus County and Kannapolis provide collection of paper and containers from schools | | | 8) Add public recycling to thread trail<br><br>9) Cabarrus County will increase variety and volume of materials from schools<br><br>10) Do outreach to CII for waste assessment consulting<br><br>11) Explore adding CESQG access to HHW<br><br>12) Encourage voluntary reporting of CII and C&D recycling | Summer 2015<br><br>Ongoing<br><br>Ongoing<br><br>Spring 2013<br><br>Summer 2012 | 7986 |

# PLANNING ELEMENTS
# NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN

**Check appropriate element**

**PLANNING YEARS 2012 through 2022**

- ☐ Reduction
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- ☐ Collection of Computer Equipment and Televisions
- ☐ Management of Abandoned Manufactured Homes
- ☐ Disposal
- ☐ Purchasing Recycled Products
- ☐ Recycling and Reuse
- ☐ Collection
- ☐ Special Waste

| COMPLETED ACTIONS | INCOMPLETE ACTIONS | | NEW / REVISED ACTIONS | | |
|---|---|---|---|---|---|
| KEY ACTIONS | KEY ACTIONS | WHY INCOMPLETE? | KEY ACTIONS | DATE DUE | ESTIMATED TONS DIVERTED IN 10TH YEAR |
| 1)Harrisburg, Kannapolis, Mount Pleasant collect yard waste for composting<br><br>2) Cabarrus County accepts yard waste for composting at C&D landfill site | | | 1) Cabarrus County to include yard trash collection for composting in next franchise<br><br>2) Cabarrus County will provide food waste composting at public events<br><br>3) Cabarrus County will promote food waste composting in CII sector<br><br>4) Midland will consider yard trash collection program | Winter 2013<br><br>Ongoing<br><br>Ongoing<br><br>Spring 2015 | |

# PLANNING ELEMENTS
# NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN

**Check appropriate element**

**PLANNING YEARS 2012 through 2022**

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- ☐ Transfer outside geographic area
- ☐ Composting and Mulching
- ☐ Disaster Response
- ☐ Education with community & through schools
- ☒ Incineration with/without energy recovery
- ☐ Illegal Disposal/Litter
- ☐ Collection of Computer Equipment and Televisions
- ☐ Management of Abandoned Manufactured Homes
- ☐ Disposal
- ☐ Purchasing Recycled Products
- ☐ Recycling and Reuse
- ☐ Collection
- ☐ Special Waste

| COMPLETED ACTIONS | INCOMPLETE ACTIONS | | NEW / REVISED ACTIONS | | |
|---|---|---|---|---|---|
| KEY ACTIONS | KEY ACTIONS | WHY INCOMPLETE? | KEY ACTIONS | DATE DUE | ESTIMATED TONS DIVERTED IN 10TH YEAR |
| No previously completed actions | | | No new actions planned | | |

# PLANNING ELEMENTS
# NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN

**Check appropriate element**

**PLANNING YEARS 2012 through 2022**

- ☐ Reduction
- ☒ Transfer outside geographic area
- ☐ Composting and Mulching
- ☐ Disaster Response
- ☐ Education with community & through schools
- ☐ Incineration with/without energy recovery
- ☐ Illegal Disposal/Litter
- ☐ Collection of Computer Equipment and Televisions
- ☐ Management of Abandoned Manufactured Homes
- ☐ Disposal
- ☐ Purchasing Recycled Products
- ☐ Recycling and Reuse
- ☐ Collection
- ☐ Special Waste

| **COMPLETED ACTIONS** | **INCOMPLETE ACTIONS** | | **NEW / REVISED ACTIONS** | | |
|---|---|---|---|---|---|
| KEY ACTIONS | KEY ACTIONS | WHY INCOMPLETE? | KEY ACTIONS | DATE DUE | ESTIMATED TONS DIVERTED IN 10TH YEAR |
| 1) The County, in cooperation with municipalities, will evaluate the need for additional transfer stations based on waste flow and the location of future waste management sites | | | 1) Cabarrus County, in cooperation with municipalities, will evaluate the need for additional transfer stations based on waste flow and the location of future waste management sites. | Ongoing | |

# PLANNING ELEMENTS
# NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN

**Check appropriate element**

**PLANNING YEARS 2012 through 2022**

- ☐ Reduction
- ☐ Disaster Response
- ☐ Illegal Disposal/Litter
- ☒ Disposal
- ☐ Collection
- ☐ Transfer outside geographic area
- ☐ Education with community & through schools
- ☐ Collection of Computer Equipment and Televisions
- ☐ Purchasing Recycled Products
- ☐ Special Waste
- ☐ Composting and Mulching
- ☐ Incineration with/without energy recovery
- ☐ Management of Abandoned Manufactured Homes
- ☐ Recycling and Reuse

| COMPLETED ACTIONS | INCOMPLETE ACTIONS | | NEW / REVISED ACTIONS | | |
|---|---|---|---|---|---|
| KEY ACTIONS | KEY ACTIONS | WHY INCOMPLETE? | KEY ACTIONS | DATE DUE | ESTIMATED TONS DIVERTED IN 10TH YEAR |
| The County continues to dispose of MSW at the CMS landfill. In addition, the County operates a C&D Landfill, which has capacity to mid 2013 | | | Cabarrus County will continue to:<br><br>(1) Negotiate a new franchise agreement with Republic Services for continued use of the CMS landfill<br><br>(2) Evaluate an expansion of the C&D landfill or closure<br><br>(3) Accept and process disaster-related debris at the C&D site in accordance with the County Emergency Debris Handling Plan | Summer 2012<br><br>Summer 2012<br><br>Ongoing | |

# PLANNING ELEMENTS
# NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN

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- ☐ Collection
- ☐ Special Waste

| COMPLETED ACTIONS | INCOMPLETE ACTIONS | | NEW / REVISED ACTIONS | | |
|---|---|---|---|---|---|
| KEY ACTIONS | KEY ACTIONS | WHY INCOMPLETE? | KEY ACTIONS | DATE DUE | ESTIMATED TONS DIVERTED IN 10TH YEAR |
| All previously planned actions are ongoing | | | 1) County will develop and coordinate educational campaign for 96 gal. cart recycling | Ongoing | |
| | | | 2) County will increase coordination with municipalities, including City of Concord in cross promotion of reduction using multiple channels | Ongoing | |
| | | | 3) Kannapolis will evaluate underperforming neighborhoods to target recycling education efforts | Ongoing | |
| | | | 4) Midland will develop information on recycling program for new resident packet; and | Summer 2012 and ongoinng | |
| | | | 5) Develop campaign for new 96 gal. cart recycling | Spring 2012 and ongoing | |

# PLANNING ELEMENTS
# NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN

**Check appropriate element**

**PLANNING YEARS 2012 through 2022**

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- ☐ Collection
- ☐ Special Waste

| COMPLETED ACTIONS | INCOMPLETE ACTIONS | | NEW / REVISED ACTIONS | | |
|---|---|---|---|---|---|
| KEY ACTIONS | KEY ACTIONS | WHY INCOMPLETE? | KEY ACTIONS | DATE DUE | ESTIMATED TONS DIVERTED IN 10TH YEAR |
| All previously planned actions are ongoing | | | 1) County will target efforts in CII sector which result from Waste Assessments | Ongoing | |
| | | | 2) Work with school administration to develop strategies to enhance faculty and student participation | Ongoing | |

# PLANNING ELEMENTS
# NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN

**Check appropriate element**

**PLANNING YEARS 2012 through 2022**

- ☐ Reduction
- ☐ Transfer outside geographic area
- ☐ Composting and Mulching
- ☐ Disaster Response
- ☐ Education with community & through schools
- ☐ Incineration with/without energy recovery
- ☐ Illegal Disposal/Litter
- ☐ Collection of Computer Equipment and Televisions
- ☐ Management of Abandoned Manufactured Homes
- ☐ Disposal
- ☐ Purchasing Recycled Products
- ☐ Recycling and Reuse
- ☐ Collection
- ☒ Special Waste

| COMPLETED ACTIONS | INCOMPLETE ACTIONS | | NEW / REVISED ACTIONS | | |
|---|---|---|---|---|---|
| KEY ACTIONS | KEY ACTIONS | WHY INCOMPLETE? | KEY ACTIONS | DATE DUE | ESTIMATED TONS DIVERTED IN 10TH YEAR |
| All previous actions ongoing | | | 1) County to Evaluate sorting metals to increase value<br><br>2) Continue to market own white goods | Spring 2014<br><br>Ongoing | Included in recycling totals |

# PLANNING ELEMENTS
# NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN

**Check appropriate element**

**PLANNING YEARS 2012 through 2022**

- ☐ Reduction
- ☐ Disaster Response
- ☐ Illegal Disposal/Litter
- ☐ Disposal
- ☐ Collection
- ☐ Transfer outside geographic area
- ☐ Education with community & through schools
- ☒ Collection of Computer Equipment and Televisions
- ☐ Purchasing Recycled Products
- ☐ Special Waste
- ☐ Composting and Mulching
- ☐ Incineration with/without energy recovery
- ☐ Management of Abandoned Manufactured Homes
- ☐ Recycling and Reuse

| COMPLETED ACTIONS | INCOMPLETE ACTIONS | | NEW / REVISED ACTIONS | | |
|---|---|---|---|---|---|
| KEY ACTIONS | KEY ACTIONS | WHY INCOMPLETE? | KEY ACTIONS | DATE DUE | ESTIMATED TONS DIVERTED IN 10TH YEAR |
| All programs are ongoing | | | 1) County will partner with Midland and Mount Pleasant on electronics recycling events<br><br>2) County will add covered storage capacity at HHW facility and weather resistant containers at all drop off centers. | Ongoing<br><br>Winter 2012 | Included in recycling tonnage |

# PLANNING ELEMENTS
# NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN

**Check appropriate element**

**PLANNING YEARS 2012 through 2022**

- ☐ Reduction
- ☐ Transfer outside geographic area
- ☐ Composting and Mulching
- ☐ Disaster Response
- ☐ Education with community & through schools
- ☐ Incineration with/without energy recovery
- ☐ Illegal Disposal/Litter
- ☐ Collection of Computer Equipment and Televisions
- ☒ Management of Abandoned Manufactured Homes
- ☐ Disposal
- ☐ Purchasing Recycled Products
- ☐ Recycling and Reuse
- ☐ Collection
- ☐ Special Waste

| COMPLETED ACTIONS | INCOMPLETE ACTIONS | | NEW / REVISED ACTIONS | | |
|---|---|---|---|---|---|
| KEY ACTIONS | KEY ACTIONS | WHY INCOMPLETE? | KEY ACTIONS | DATE DUE | ESTIMATED TONS DIVERTED IN 10TH YEAR |
| No previously completed actions | | | No new actions planned | | |

# PLANNING ELEMENTS
# NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN

**Check appropriate element**

**PLANNING YEARS 2012 through 2022**

- ☐ Reduction
- ☐ Transfer outside geographic area
- ☐ Composting and Mulching
- ☐ Disaster Response
- ☐ Education with community & through schools
- ☐ Incineration with/without energy recovery
- ☒ Illegal Disposal/Litter
- ☐ Collection of Computer Equipment and Televisions
- ☐ Management of Abandoned Manufactured Homes
- ☐ Disposal
- ☐ Purchasing Recycled Products
- ☐ Recycling and Reuse
- ☐ Collection
- ☐ Special Waste

| COMPLETED ACTIONS | INCOMPLETE ACTIONS | | NEW / REVISED ACTIONS | | |
|---|---|---|---|---|---|
| KEY ACTIONS | KEY ACTIONS | WHY INCOMPLETE? | KEY ACTIONS | DATE DUE | ESTIMATED TONS DIVERTED IN 10TH YEAR |
| All previous plans ongoing | | | No new actions planned | | |

# PLANNING ELEMENTS
# NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN

**Check appropriate element**

**PLANNING YEARS 2012 through 2022**

- ☐ Reduction
- ☐ Transfer outside geographic area
- ☐ Composting and Mulching
- ☐ Disaster Response
- ☐ Education with community & through schools
- ☐ Incineration with/without energy recovery
- ☐ Illegal Disposal/Litter
- ☐ Collection of Computer Equipment and Televisions
- ☐ Management of Abandoned Manufactured Homes
- ☐ Disposal
- ☒ Purchasing Recycled Products
- ☐ Recycling and Reuse
- ☐ Collection
- ☐ Special Waste

| COMPLETED ACTIONS | INCOMPLETE ACTIONS | | NEW / REVISED ACTIONS | | |
|---|---|---|---|---|---|
| KEY ACTIONS | KEY ACTIONS | WHY INCOMPLETE? | KEY ACTIONS | DATE DUE | ESTIMATED TONS DIVERTED IN 10TH YEAR |
| All previous actions ongoing | | | 1) Midland will study implementing a policy | | |

# Appendix F

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

WHEREAS, it is a priority of this community to protect human health and the environment through safe and effective management of municipal solid waste;

WHEREAS, the reduction of the amount and toxicity of the local waste stream is a goal of this community;

WHEREAS, equitable and efficient delivery of solid waste management services is an essential characteristic of the local solid waste management system;

WHEREAS, it is a goal of the community to maintain and improve its physical appearance and to reduce the adverse effects of illegal disposal and littering;

WHEREAS, Cabarrus County recognizes its role in the encouragement of recycling markets by purchasing recycled products;

WHEREAS, involvement and education of the citizenry is critical to the establishment of an effective local solid waste program;

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

WHEREAS, NC 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;

WHEREAS, the Cabarrus County Solid Waste Management Department has undertaken and completed a long-range planning effort to evaluate the appropriate technologies and strategies available to manage solid waste effectively;

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

That Cabarrus County's 2012 Ten Year Comprehensive Solid Waste Management Plan is accepted and endorsed and placed on file with the Clerk to the Board on this 18th day of June, 2012.

CABARRUS COUNTY
BOARD OF COMMISSIONERS

BY: Elizabeth F. Poole
Elizabeth F. Poole, Chairman

ATTEST:

Kay Honeycutt, Clerk to the Board

# Resolution Accepting and Endorsing the Solid Waste Management Plan of 2012 for Cabarrus County

**WHEREAS,** it is a priority of this community to protect human health and the environment through safe and effective management of municipal solid waste; and

**WHEREAS,** the reduction of the amount and toxicity of the local waste stream is a goal of this community; and

**WHEREAS,** equitable and efficient delivery of solid waste management services is an essential characteristic of the local solid waste management system; and

**WHEREAS,** it is a goal of the community to maintain and improve its physical appearance and to reduce the adverse effects of illegal disposal and littering; and

**WHEREAS,** Cabarrus County recognizes its role in the encouragement of recycling markets by purchasing recycled products; and

**WHEREAS,** involvement and education of the citizenry is critical to the establishment of an effective local solid waste program; and

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

**WHEREAS,** NC 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 Cabarrus County Solid Waste Management Department and Citizens Solid Waste Advisory Council have undertaken and completed a long-range planning effort to evaluate the appropriate technologies and strategies available to manage solid waste effectively;

**NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE TOWN OF HARRISBURG:**

That Cabarrus County's 2012 Ten Year Comprehensive Solid Waste Management Plan is accepted and endorsed and placed on file with the Clerk to the Board on this day, May 14, 2012.

Adopted this 14th day of May, 2012

ATTEST:

Janet Rackley, Town Clerk

SEAL OF THE TOWN OF HARRISBURG NORTH CAROLINA 1973

Timothy B. Hagler, Mayor

KANNAPOLIS

**Resolution #2012-11**

**RESOLUTION ACCEPTING AND ENDORSING THE SOLID WASTE MANAGEMENT PLAN OF 2012-2022 FOR CABARRUS COUNTY**

WHEREAS, it is a priority of this community to protect human health and the environment through safe and effective management of municipal solid waste;

WHEREAS, THE City of Kannapolis and three other local municipal governments (Harrisburg, Mount Pleasant and Midland ( are included in the County's Solid Waste Management Plan except for the City of Concord that has their own individual solid waste management plan,

WHEREAS, the reduction of the amount and toxicity of the local waste stream is a goal of this community;

WHEREAS, equitable and efficient delivery of solid waste management services is an essential characteristic of the local solid waste management system,

WHEREAS, it is a goal of the community to maintain and improve its physical appearance and to reduce the adverse effects of illegal disposal and littering;

WHEREAS, the City of Kannapolis recognizes its role in the encouragement of recycling markets by purchasing recycled products,

WHEREAS, involvement and education of the citizenry is critical to the establishment of an effective local solid waste program,

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

WHEREAS, NC 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;

WHEREAS, the Cabarrus County Solid Waste Management Department and Citizens Solid Waste Advisory Council have undertaken and completed a long-range planning effort to evaluate the appropriate technologies and strategies available to manage solid waste effectively;

NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE CITY OF KANNAPOLIS

That Cabarrus County's 2012-2022 Ten Year Comprehensive Solid Waste Management Plan is accepted and endorsed and placed on file with Clerk to the Board on this 14th day, of May, 2012.

Robert S. Misenheimer, Mayor

ATTEST

Bridgette Bell, MMC, City Clerk

TOWN OF MIDLAND

# RESOLUTION ACCEPTING AND ENDORSING THE SOLID WASTE MANAGEMENT PLAN OF 2012 FOR THE TOWN OF MIDLAND

Resolution #2012-94

*WHEREAS,* it is a priority of this community to protect human health and the environment through safe and effective management of municipal solid waste;

*WHEREAS,* the reduction of the amount and toxicity of the local waste stream is a goal of this community;

*WHEREAS,* equitable and efficient delivery of solid waste management services is an essential characteristic of the local solid waste management system;

*WHEREAS,* it is a goal of the community to maintain and improve its physical appearance and to reduce the adverse effects of illegal disposal and littering;

*WHEREAS,* The Town of Midland recognizes its role in the encouragement of recycling markets by purchasing recycled products;

*WHEREAS,* involvement and education of the citizenry is critical to the establishment of an effective local solid waste program;

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

*WHEREAS,* NC 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;

*WHEREAS,* The Town of Midland's Solid Waste Management Department has undertaken and completed a long-range planning effort to evaluate the appropriate technologies and strategies available to manage solid waste effectively;

*NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF* the Town of Midland that Cabarrus *County's* 2012 to 2022 Ten Year Comprehensive Solid Waste Management Plan is accepted and endorsed and placed on file with Town Clerk on this 8th day, May, 2012.

Attest/ Seal

Mayor, Kathy Kitts

Nancy E. Boyden, CMC Town Clerk

# Mount Pleasant
North Carolina

Founded in 1848

RESOLUTION ACCEPTING AND ENDORSING THE SOLID WASTE MANAGEMENT PLAN OF 2012 FOR MOUNT PLEASANT

**WHEREAS,** it is a priority of this community to protect human health and the environment through safe and effective management of municipal solid waste;

**WHEREAS,** the reduction of the amount and toxicity of the local waste stream is a goal of this community;

**WHEREAS,** equitable and efficient delivery of solid waste management services is an essential characteristic of the local solid waste management system;

**WHEREAS,** it is a goal of the community to maintain and improve its physical appearance and to reduce the adverse effects of illegal disposal and littering;

**WHEREAS,** Mount Pleasant recognizes its role in the encouragement of recycling markets by purchasing recycled products;

**WHEREAS,** involvement and education of the citizenry is critical to the establishment of an effective local solid waste program;

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

**WHEREAS.** NC 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;

**WHEREAS,** the Cabarrus County Solid Waste Management Department and Citizens Solid Waste Advisory Council have undertaken and completed a long-range planning effort to evaluate the appropriate technologies and strategies available to manage solid waste effectively;

**NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE TOWN OF MOUNT PLEASANT:**

That Mount Pleasant's 2012 Ten Year Comprehensive Solid Waste Management Plan is accepted and endorsed and placed on file with the Clerk to the Board on this 7th day of May 2012.

W. Del Eudy, Mayor

Cathy Whittington, Clerk to the Board

# Appendix G

# CHAPTER 52: GARBAGE COLLECTION

Section


52.01 Services provided by town
52.02 Services not provided by town
52.03 Regulation of containers and bins

52.99 Penalty


## § 52.01 SERVICES PROVIDED BY TOWN.

(A) The town will collect:

(1) *Residential yard waste.* Tree limbs and branches no more than six feet in length and 12 inches in diameter stacked loosely with cut ends towards the street, shrubs, flowers and other small plants, grass clippings and leaves. All grass clippings and leaves shall be loose (not bagged) and free of all other debris (sticks, rocks, dirt, paper and the like).

(2) *Residential bulk items.* Small quantities of carpet, padding, shingles and other construction debris, white goods, residential furniture, large cardboard boxes (broken down and stacked), disassembled metal items (i.e. playground equipment, swing-sets and the like), doors, windows, decking material and lawn care equipment (drained of all fluids and with tires removed). These items must have belonged to the owner of the residence and have been previously located there.

(B) All yard waste and bulk items to be collected shall be placed within the street right-of-way at the back of the curb without extending into the gutter or street itself. Yard waste placed behind the curb shall not exceed a distance of six feet from the back of the curb into the property. All items shall be placed a minimum of eight feet from any sign, water meter, mailbox, landscaping, low hanging overhead utilities or any other obstruction.

(C) Collection of yard waste and bulk items will occur on a weekly schedule developed by the Public Works Director or his or her designee. No more than seven cubic yards (eight feet long by four feet high by six feet wide) of yard waste will be collected from each residence in a one week period. Larger quantities of yard waste may be collected by the town for a fee determined by the Town Council. The town reserves the right to refuse pick up of all items if any items are not in compliance with this section.
(Ord. 509, passed 2-11-91; Am. Ord. passed 11-8-93; Am. Ord. passed 9-14-98; Am. Ord., passed 1-12-09)

## § 52.02 SERVICES NOT PROVIDED BY TOWN.

(A) The town shall not collect:

(1) Anything from vacant lots.

(2) Tree trunks, tree stumps and tree limbs in excess of six feet in length or 12 inches in diameter.

(3) Building material scraps.

(4) Waste building materials, lot clearings, or tree trimmings from houses or other structures under construction or recently completed.

(5) Any other type of trash or bagged material.

(6) Tires.

(7) Batteries.

(8) Oil, paint or other toxic liquids.

(9) Demolition debris (i.e. dirt, rock, bricks, sod, asphalt, concrete and the like).

(10) Debris or waste generated by commercial operations.

(11) Any material the town deems unsafe for its employees to handle.

(B) When a resident or property owner hires someone to trim trees, it is his or her responsibility to dispose of tree limbs and trimmings.
(Ord. 509, passed 2-11-91; Am. Ord., passed 11-8-93; Am. Ord., passed 1-12-09) Penalty, see § 10.99

### § 52.03 REGULATION OF CONTAINERS AND BINS.

(A) Roll-out containers and recycle bins may be placed at the street on the evening prior to the following day collection. Containers and bins must be returned to your house by 9:00 p.m. the evening of your pick up.

(B) All roll-out containers and recycle bins must be screened from view from a public street.

(C) Any homeowner association with existing policies regarding the times of placement/retrieval and screening of garbage or recycling bins will be exempt from this section.
(Ord. passed 7-29-04) Penalty, see § 52.99

### § 52.99 PENALTY.

Failure to comply with § 52.03 will result in a civil penalty of $50, and each day the violation continues shall be a separate violation.
(Ord. passed 7-29-04)