# BLADEN COUNTY

## Solid Waste Management Plan

## June 2009 Update

# BLADEN COUNTY SOLID WASTE PLAN 2009 UPDATE

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## INTRODUCTION

This document was prepared in accordance to North Carolina General Statute 130A-309.09A for the purpose of evaluating the adequacy of solid waste services to meet local needs and to protect human health and the environment. This document serves as the update to Bladen County's Solid Waste Management Plan adopted June 1991. The original plan was updated in June 2003 and in 2006. This 2009 update is composed of data from the period of June 1st, 2008 through May 31st, 2009. It includes solid waste history for the past 18 years, as well as our upcoming plans and future goals.

Through implementation of this updated comprehensive solid waste management plan, the Bladen County planning area provides for the management of solid waste and it's reduction for the coming years. The planning area includes Bladen County rural area and it's incorporated municipalities, Bladenboro, Clarkton, Dublin, Elizabethtown, East Arcadia, Tar Heel, and White Lake.

Bladen County's long range vision is to fully implement it's comprehensive waste management program. This plan will give us direction in our mission to collect, recycle, and dispose of solid waste in the most economically and environmentally sound way possible, while influencing positive attitudes toward solid waste management and keeping our county clean an beautiful.

## PLANNING AREA GOALS

This vision translates into the following long-range planning goals:

1. To protect public health and the environment.

2. To provide planning area residents with collection services, recycling and waste reduction opportunities, and disposal capacity.

3. To decrease improper waste disposal.

4. To work toward the state waste reduction goal as recognized by Bladen County.

5. To increase efficiency and cost effectiveness of solid waste programs.

## Part I. GEOGRAPHIC AREA AND SOLID WASTE STREAM EVALUATION

### Geographic Area

This solid waste management plan covers Bladen County and its incorporated municipalities.

At 847 square miles, Bladen County is the 4th largest county in the state. The 2007 population estimate is 32,500. This estimate shows an increase 1.5 from the 2000 estimate.

Approximately 23.0% of the population resides in towns. The remaining 77.0% are rural residents. The population density in Bladen County is separated into two sections by the Cape Fear River, which flows southeast through Bladen County. The northern side of the river has a density of approximately 15 persons per square mile whereas the southern side has a density of approximately 40 to 45 persons per square mile. There are six (6) distinct density sections within Bladen County ranging from 15 persons per square mile to 107 persons per square mile. The total average of Bladen's population is 38 persons per square mile.

**Table 1: Estimated Population of Bladen County, July 2007**

| | |
|---|---|
| Bladenboro | 1,653 |
| Clarkton | 765 |
| Dublin | 250 |
| East Arcadia | 525 |
| Elizabethtown | 3,660 |
| Tar Heel | 95 |
| White Lake | 585 |
| Bladen County – unincorporated areas | 24,967 |
| Total | 31,500 |

Source: NC State Data Center

The chart represents an increase of l.47 from the 2000 census.
The towns of Bladenboro, Clarkton, Dublin, Elizabethtown and White Lake provide solid waste management services to their residents by contracting with a waste management company.

The towns of East Arcadia and Tar Heel do not provide solid waste services. They participate in the county-operated solid waste programs.

## Waste Stream Evaluation

In this plan, residential waste refers to waste generated by households (individual and multi-family dwellings). The term commercial refers to waste generated by small businesses, restaurants, etc. C & D refers to waste generated from construction, demolition and remodeling. The term industrial refers to waste from the county's industries. The term LCID refers to land clearing and inert debris.

Bladen County and its municipalities sent 17,805 tons of municipal solid waste and 1,670 tons of C & D to Sampson County Landfill for a total 19,475 tons; 246 tons C & D and 42 LCID was disposed in Bladen's C & D Landfill located at l003 Mercer Mill (Note: C & D Landfill closed July 1, 2008); 438.98 tons of yard waste was disposed at the newly designated Leaf and Limb Drop Off located at l003 Mercer Mill. The grand total disposed was 20,202. (Note: Does not include recycling totals) The percentages of the types of waste disposed by sector are shown in Table 2.

**Table 2: Waste Disposed by Sector, 2008/2009**

| TYPE OF WASTE | TONS | PERCENT OF WASTE STREAM |
|---|---|---|
| Residential | 12,547 | 62 |
| Commercial | 5,152 | 25 |
| Industrial | 107 | 1 |
| C & D | 1,915 | 10 |
| LCID | 481 | 2 |
| Total | 20,202 | 100 |

Source: County disposal records for 06/01/2008 - 05/31/2009

The totals show that 62% of the waste disposal was residential, 25% was commercial, 1% was industrial, 10% was construction and demolition, and 2% land clearing and yard waste.

As stated in General Statute 130A-309.09A, one of the responsibilities of local governments is to evaluate the solid waste stream in the geographic area covered by their plan. Bladen's waste characterization profile in Table 3 is based on figures derived from the quick Waste Stream Analysis provided by NC DPPEA. The whole waste stream is not represented here, just waste generated from residential, institutional, and commercial sources.

**Table 3: Residential/Commercial Waste Characterization Profile**

| Material | Local Tonnage |
|---|---|
| Paper | 8,798 |
| Glass | 1,176 |
| Plastic | 1,738 |
| Aluminum Cans | 1,879 |
| White Goods/Scrap Metal | 486 |
| Food Wastes | 3,633 |
| Textiles | 783 |
| Construction | 12,542 |
| Electronics | 212 |

Source: FY 2007-08 Quick Waste Stream Analysis (See Page 7)

# Source - NC DPPEA Quick Waste Stream Analysis

This analysis seeks to identify the presence of basic materials in a community's waste stream. The analysis uses waste stream factors from the North Carolina Market Assessment report and data from the 2007-08 Local Government Solid Waste Management Annual Reports. County reports include all municipal recycling tonnages (unless noted). "Local Tonnage" represents estimated generation from residential, institutional, and commercial sources. The whole waste stream is not represented here. "Current recovery" reflects LG recycling efforts only and is taken from the Local Government Solid Waste Management Annual Reports; no private sector recovery is included.

| | | | |
|---|---|---|---|
| **Quick Waste Stream Analysis For:** | **BLADEN COUNTY** | | |
| **STATISTICS** | | **Recovery (lbs/capita):** | **42.18** |
| **Community Population (7/1/07):** | **32,500** | **Ave. Municipal Recovery (lbs/capita):** | **109.10** |
| **Total FY 07-08 Recovery (tons):** | **685.41** | **Ave. County Recovery (lbs/capita)*:** | **112.88** |
| | | * (County recovery includes municipalities) | |

| Material | Local Tonnage | Current Recovery | Tons Left In Waste Stream | Percent Recovered |
|---|---|---|---|---|
| **Total Paper** | **8,767.62** | **97.31** | **8,670.31** | **1.1%** |
| Newsprint | 1,189.47 | 38.77 | 1,150.70 | 3.3% |
| Corrugated Cardboard | 3,591.72 | 41.89 | 3,549.83 | 1.2% |
| Magazines | 232.69 | - | 232.69 | 0.0% |
| Office Paper | 786.66 | - | 786.66 | 0.0% |
| Mixed Paper | 2,857.24 | 15.40 | 2,841.84 | 0.5% |
| Other Paper | 109.85 | 1.25 | 108.60 | 1.1% |
| **Total Glass** | **1,176.11** | **0.83** | **1,175.28** | **0.1%** |
| Clear | 588.06 | 0.17 | 587.89 | 0.0% |
| Green | 305.79 | - | 305.79 | 0.0% |
| Amber | 282.27 | 0.66 | 281.61 | 0.2% |
| **Total Plastic** | **1,737.72** | **7.19** | **1,730.53** | **0.4%** |
| PETE | 332.62 | 4.31 | 328.31 | 1.3% |
| HDPE | 575.54 | 2.88 | 572.66 | 0.5% |
| Other Plastic | 829.57 | - | 829.57 | 0.0% |
| **Total Metals** | **N/A** | **571.89** | **N/A** | **N/A** |
| Aluminum Cans | 187.93 | 2.74 | 185.19 | 1.5% |
| Steel Cans | 327.92 | 1.00 | 326.92 | 0.3% |
| White Goods | 486.28 | 142.04 | 344.24 | 29.2% |
| Other Metal | N/A | 426.11 | N/A | N/A |
| **Pallets and Wood Crates** | **1,884.84** | **-** | **1,884.84** | **0.0%** |
| **Food Wastes** | **3,633.03** | **N/A** | **N/A** | **N/A** |
| **Textiles (post consumer)** | **783.05** | **-** | **783.05** | **0.0%** |
| **Electronics** | **211.95** | **2.87** | **209.08** | **1.4%** |
| **Commingled Tonnage** | **N/A** | **3.20** | **N/A** | **N/A** |
| **Other Materials Collected** | | | | |
| Construction Debris | 12,542.18 | - | N/A | 0.00% |
| Other Wood | N/A | - | N/A | N/A |
| Pesticide Containers | N/A | 2.12 | N/A | N/A |
| - | N/A | - | N/A | N/A |
| - | N/A | - | N/A | N/A |
| **Special Wastes** | | | | |
| Used Oil (Gallons) | 57,503.37 | 3,895.00 | 53,608.37 | 6.8% |
| Used Oil Filters (# Filters) | 53,249.75 | - | 53,249.75 | 0.0% |
| Antifreeze (Gallons) | N/A | - | N/A | N/A |
| Lead Acid Batteries (# Batteries) | 15,212 | 403.00 | N/A | 2.6% |
| HHW (tons) | N/A | - | N/A | N/A |

## Part II. PLAN OF ACTION CHARTS & UPDATES

### PLAN OF ACTION - REDUCTION

| PLAN OF ACTIONS/ GOALS | DATE COMPLETED | UPDATES/ PLANS FOR COMPLETION |
|---|---|---|
| - Join Keep American Beautiful (KAB) a nation organization whose purpose is to encourage proper handling of solid waste , including recycling and littering prevention. | 1991 | Bladen joined KAB, named the board Keep Bladen Beautiful, appointed a coordinator and each member of the County Board of Commissioners appointed a representative for his area to serve on the board. |
| -Build a county transfer station to accommodate solid waste after the closing of the Hwy 701 landfill. | 1994 | A transfer station was built at 1522 Mercer Mill Road. And is currently in operation. |
| - Put in place manned convenient centers with swap shops to eliminate the many unmanned sites and provide opportunities for recycling to reduce waste going into a landfill. | 12-2007 | The last of 17 convenient centers was installed in December, 2007. Each center has a swap shop shelter for collecting good, used items for reuse. |
| -To continue striving to remove early banned items out of landfill through installation of final convenient center. | 12-2007 | Continue efforts to remove banned items from waste stream and encourage residential and commercial separation of used oil, tires, white goods, batteries, & aluminum cans for recycling at transfer station and centers. |

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| -Continue to publish articles in newspaper to encourage citizens to reduce trash through reuse and recycling. | Ongoing | |
| -Add additional recycling items for collection as economically feasible. | 2008 | Added collecting oyster shells, oil filters, computers and components to the recycling program at all collection sites to further reduce waste going into the landfill. |
| -Complete comprehensive recycling program at convenient centers October 1, 2009 to add additional recycling of glass, plastic, steel cans, mixed paper, and corrugated cardboard. | | Applied in Feb, 2009 and was awarded a DPPEA Recycling Grant for additional recycling items to be added to the collections at transfer station and convenient centers. |
| -Finalize, publish, and distribute a new Solid Waste / Recycling brochure to inform citizens of how they can reduce trash by reusing and recycling with funds from a DPPEA Recycling Grant. | | Note: See Proposed New Brochure Attachment and Recycle & Reuse Chart page 11-18 for details. |

## PLAN OF ACTION - COLLECTION

| PLAN OF ACTION/ GOALS | DATE COMPLETED | UPDATES/ PLANS FOR COMPLETION |
|---|---|---|
| -To eliminate the green box collection system, consisting of 115 unmanned, unfenced, uncontrolled, unsightly green box collection sites with over 385 dumpsters (6-8 yards.) | 12-07-07 | Replaced the unmanned sites with 17 manned, fenced and landscaped convenient centers for residential solid waste collection. Contracted with a security company to provide security guards (attendants) for each site. |
| -To change from front end trucks to predominately roll off trucks with the final center installation. | 2007 | From December, 2001 until present Bladen purchased 3 roll off trucks to transport our materials from the centers; 16 forty yard compactors to collect and compact residential MSW at centers, and approximately 75 roll off containers (20-20 yards) to transport white goods and scrap metal, brown goods, and yard waste from centers to transfer station. |
| -To provide collection of banned items at centers and transport to transfer station for pick up by various companies. | 12-2007 | Tires, lead-acid batteries, computers, & used motor oil are picked up weekly by county staff in a trailer assisted by inmate labor.<br><br>Note: See Recycle & Reuse Table page 11- 18 for list of recycling items collected at each site. |

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| | | No construction and demolition debris is collected at centers. All C & D debris is received at the transfer station at a fee of $45 per ton. |
| -Secure a state permit to open up a C & D Landfill at 1003 Mercer Mill. | 9-2005 | |
| -Closed out C & D Landfill per DENR. | 6-30-2008 | The C & D Landfill was permitted and opened for operation until July 1, 2008 when it was closed.<br><br>Note: Construction & Demolition, effective July, 2008, is collected with MSW on the transfer pad for hauling to WI Sampson County C & D / MSW Landfill. |

## PLAN OF ACTION – RECYCLE AND REUSE

| PLAN OF ACTION/ GOALS | DATE COMPLETED | UPDATES/ PLANS FOR COMPLETION |
|---|---|---|
| -Collect banned items at transfer station for recycling. | 2001 -2006 | Used oil, and lead-acid batteries (2001), white goods, tires, and aluminum cans (2005) are collected for recycling currently at all centers and transfer station. |
| -Complete the final of 17 convenient/recycling centers. See page 48 – 50 for list of sites, addresses and map. | 12-7-07 | All 17 **convenient centers** with swap shops are now in full operation with manned attendants to prevent contamination of individual recycling collections and to provide assistance to the patrons. Each site has signage on recycling containers to help prevent contamination of collection. Each site is landscaped and fenced in. |
| -Construct at the centers a building for a swap shop program to collect good, usable, items, for someone else to use, and our recyclables. | 12-7-07 | |
| -Continue to provide collection of used motor oil at transfer station for large amounts from businesses and smaller amounts at convenient centers for households. | Ongoing | **Used oil** is collected at all centers in 1 – 5 gallon containers, held in a basin, and transported periodically by county staff to the transfer station's large drum for servicing by Safety Kleen out of St Pauls, N.C. |
| -Continue to collect vehicle batteries at transfer station and convenient centers. | Ongoing | **Batteries** are collected in a basin in the recycling covered shelter at each collection center and transported by county staff to a designated area on pallets at transfer station pad, picked up by Macks Recycling of Loris, S. C. and processed by U. S. Lead, Inc. |

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| -Continue providing recycling of tires to keep them out of landfill. | Ongoing | **Tires** are collected at the 16 collection/recycling centers in a designated covered recycling area. The tires are transported to the transfer station by county staff. A limit of five tires may be taken to the centers.<br><br>Citizens, retailers and other tire businesses bringing in more than 5 tires must provide a signed tire certification form. The form confirms that the tires were generated in Bladen County. All tires are stored out of the weather in 48 foot vans. The vans are serviced by Central Carolina Tire Disposal of Cameron, N. C. for recycling. |
| -Continue to offer recycling opportunities for newly banned items. | Ongoing | All 17 centers have a decaled barrel for collection of **oil filters**. They are periodically serviced by Safety Kleen. |
| -Begin recycling oil filters | 12-2008 | **Electronics-computers and components** are collected at the 16 convenient centers at a designated area of the swap shop and in a boxed container at transfer station. Collections are brought in by county staff. Creative Recycling provides the boxed container and services them. |
| -Begin recycling electronics | 11-2008 | |
| -Add oyster and other shells to recycling program. | 12-2008 | **Oyster shells** are collected at all 17 centers in decaled barrels provided by NCD Marine Fisheries. They are collected by county staff and stock piled at Bladen's old landfill for NCDMF pick up. |

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| -Add corrugated cardboard to recycling program. | 3-2007 | Began collecting **corrugated cardboard** at transfer station through Lumberton Recycling Company, (renamed Recycle South). At present corrugated is collected only at transfer station. |
| -Continue to attempt to keep all precious metals out of landfill. | Ongoing | . **Scrap metal and white goods** are pulled from the loads for recycling by patrons and deposited at the transfer station scrap metal stockpile area. |
| -Continue to remove Freon from refrigerant items. | Ongoing | **Refrigerant items** are collected separately. **Freon removal** is provided by the hauler, Metals Recycling, out of Monroe, N.C. |
| -Continue to recover white goods and metals from waste stream at all sites. | 12-07 | and<br><br>**Scrap metal/white goods** are collected at centers in roll off containers for pickup by county staff and transported in roll off containers to transfer station for stock pile.<br><br>The metal stock pile is serviced by Metal Recycling Services. |
| -Continue efforts to keep aluminum out of waste stream with final center put in place. However, a large volume of aluminum is recovered by volunteers and scrap metal haulers for sale | On going | **Aluminum Cans** are collected separately at all collection centers in 6 yard containers and serviced by our county front end truck for transport to Recycle South, Lumberton,N.C. for recycling. |

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| -Bladen has no plans to recycle pallets at this time. | | In 2006, attempts have been made to recycle **pallets**, but were unsuccessful due to the size requirements, etc. We do make pallets available when possible to the public for reuse.<br><br>Therefore, at present **pallets** are not recycled but are disposed with the MSW at the permitted MSW/CD landfill in Sampson County. |
| -Applied for a 3rd Pesticide Plastic Jug Recycling Grant for the construction of the final 4 of 8 pesticide collection drop offs. | 2006 | Received funding for the 2006 grant to construct 4 additional **pesticide plastic jug** recycling drop offs. |
| -Construct final 4 plastic pesticide container collection drop offs. | 2007 | The final 4 of 7 **pesticide plastic jug recycling** enclosed drop offs were constructed at 7 strategically located convenient centers making a total of 8 drop offs. The drop off is a special fenced-in, covered cage with its separate signage and instructions. An 8th similar collection area, but much larger, is located at the transfer station. All 8 sites were built with 3 Environmental Trust Fund Pesticide Grants. The jugs are serviced by USAG. The farmers do an excellent job with triple rinsing as required by the Agricultural staff who coordinate the training. |

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| -Deduct a recycling pilot program at one of the convenient/recycling centers. | 11-08 to Present | A pilot program with a prototype trailer is currently being conducted at our Bay Tree convenient center. Bryant's Recycling Center of Clinton provided the trailer and is servicing it.<br><br>According to the attendant, 65% of the citizens are currently participating with minimal contamination. |
| -Apply for a $40,000 DEPPA recycling grant to complete our comprehensive recycling program. The estimated total project cost is $62,000 with county contributing $22,000. The proposed project will construct and put in place a recycling trailer at each of the 17 collection/ recycling centers. This would enable the collection of cardboard/ mixed paper, steel/aluminum cans, glass, plastic bottles and jugs for recycling at the collection centers. The project will also | 2-2009 | Applied and was awarded in May, 2009 with the recycling grant in the amount of $35,000 with county contributing $27,000. Total project is $62,000. |
| allow funding for design and distribution of a new educational / recycling brochure. | | The projected startup target date is July 1, 2009 after grant contract is signed. |

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| -Complete final stage of comprehensive recycling program by October 1, 2009.<br><br>Below listed actions for DEPPA Recycling Grant project:<br><br>- Sign funded grant contract in July.<br><br>- Prepare and present news releases to the media in July, 2009 on upcoming recycling opportunities.<br><br>- Put out bids for construction of recycling trailers in July, 2009.<br><br>-Begin construction of trailers in August, 2009.<br><br>- Finalize new brochure for distribution in August, 2009<br><br>- Schedule training session for attendants in September, 2009.<br><br>-Install trailers at centers and distribute brochures in September, 2009.<br><br>-Kickoff of final step of comprehensive recycling program. | | State deadline for completion of comprehensive recycling plan is June 30, 2010. |

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| | | Note:<br>Applied in 2007 and 2008 but was not funded. |
| -Apply for a 3rd. Coca Cola Recycling Grant in 2010 for bottle recycling containers to install in government offices and at public areas. | | The school central office applied in 2007 and was funded recycling containers for bottles for all the schools. They are waiting to launch their recycling when we complete our final step of our comprehensive program. It will be a coordinated effort on the part of the schools and the county. |
| -Apply for the DPPEA Recycling grant again in 2010 to obtain funds to purchase commingled recycling containers for use by the citizens to encourage recycling at home. | | |

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|---|---|---|
| -Promote recycling continuously through programs in schools and groups, through the media, in parades, and at booths, etc. | Ongoing | |
| -Strive to encourage residents to drop off contaminate free recycling collections at transfer station and at the 17 collection centers. | Ongoing | |
| -Strive to add more recyclables to our collection after the new addition of the recycling trailers as feasible and economically such as eyeglasses, cell phones, and ink jet cartridges. | | |

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## PLAN OF ACTION - COMPOSTING AND MULCHING

| PLAN OF ACTION/ GOALS | DATE COMPLETED | UPDATES/ PLANS FOR COMPLETION |
|---|---|---|
| -Continue to provide drop off for rural and municipal residents for yard waste at no charge. | | There are no plans for developing a drop off for land clearing at this time. |
| -There are no immediate plans for mulching and composting on a regular basis at this time. At some point in the future with funds available, equipment might be purchased to grind LCID or contract for grinding services. | | In the event our small yard waste permitted site becomes filled with a huge amount of storm debris, efforts will be made to seek affordable temporary grinding services so that we might continue to provide a drop off for our household for their residential yard waste. |
| -Send a request to NCDENR for a permit to use a 1.99 acre parcel of land owned by Bladen listed in deed book 439, page 563, commonly known as the C & D Land-fill tract, as a LCID and yard waste disposal, storage and potential grinding area. | July 31, 2008 | On October 30, 2008, a notice of approval from NCDENR was received to use the aforementioned parcel as a LCID disposal site. |
| -Install roll off containers for collection of yard waste at final convenient centers. | 12-2007 | |
| -Close current LCID landfill at 1522 Mercer Mill Road behind scales. | 11-2008 | |
| -Open new LCID landfill at 1041 Mercer Mill Road. | 11-2008 | |
| -Finalize and publish a new brochure indicating the requirements for free yard waste disposal at centers and transfer station. | 08-2009 | |

| | | |
|---|---|---|
| -Continue to provide free yard waste disposal to households.<br><br>Note: Several of the municipalities have permitted yard waste drop off sites. However, they may utilize our facilities free of charge for yard waste disposal.<br><br>-Begin accepting C & D with MSW on transfer pad after closing C & D and LCID landfill on June 30, 2008. | Ongoing<br><br>7-2008<br><br>7-2008 | Due to the small size of the LCID site, only yard waste is disposed at this site. No land clearing is permitted due to the size.<br><br>The LCID site is provided at no charge to residents of Bladen County for yard waste disposal. Minimum size is less than 3" by 3' in length for free disposal.<br><br>C & D, concrete, and other similar LCID materials , with the exception of yard waste, are received on the transfer station pad and sent to the permitted MSW/CD Landfill in Sampson County, owned by Waste Industries.<br><br>A tipping fee of $45.00 per ton is charged for disposal C & D materials on the transfer pad.<br><br>(The C&D/LCID landfill permitted in 2000 was closed 6-30-2008.)<br><br>A commercial charge of $45.00 is implemented to businesses for yard waste. |

| | | |
|---|---|---|
| -Attend training on debris management. | 4-2009 | Director and supervisor attended NC DENR Disaster Debris Management Workshop in April of 2009.<br><br>Minimal storm damage is taken free of charge if declared tipping free by local officials and proper notification to Solid Waste Staff. |
| -Develop a permitted site for receiving storm debris in case of a disaster.<br><br>. | 6-17-09 | A disaster site has been establishment for disposal of land clearing debris in the event of a storm, etc.<br><br>Note: See Disaster Response Chart for details of the storm debris site. |

## PLAN OF ACTION - INCINERATION WITH and WITHOUT ENERGY RECOVERY

| PLAN OF ACTION/ GOALS | DATE COMPLETED | UPDATES/ PLANS FOR COMPLETION |
|---|---|---|
| -There are no plans in the future for incineration with energy recovery or without energy recovery in Bladen County. | | |

## PLAN OF ACTION -
## TRANSFER OUTSIDE GEOGRAPHIC AREA

| PLAN OF ACTION/ GOALS | DATE COMPLETED | UPDATES/ PLANS FOR COMPLETION |
|---|---|---|
| -Plans are to continue sending MSW to Sampson County. | | Currently MSW Residential and Commercial is transferred out to Sampson County Disposal, Inc. landfill located in Roseboro, N. C.<br><br>The landfill, owned by Waste Industries, has a 37 year life expectancy at permit #8202.<br><br>Recycling collections are transferred out to various areas for processing based on item and the collector. See Recycle and Reuse Chart on page 11 - 18 for handling of each recycling collection.<br><br>Note: Smithfield Packing, the largest industry in the county, transfers waste to Robeson Co. landfill each day instead of Bladen's Transfer Station. Robeson's landfill is approx. 4 miles away from Smithfield Packing. |

# PLAN OF ACTION - DISPOSAL

| PLAN OF ACTION/ GOALS | DATE COMPLETED | UPDATES/ PLANS FOR COMPLETION |
|---|---|---|
| -At this time it, is not economically feasible for Bladen County to implement a program for disposal of **abandoned manufactured homes.**<br><br>Note: History - Transfer Station was built as part of VEDCO-BCH Project in l994. The VEDCO project was to receive our trash at a Fayetteville facility where the recyclables were to be pulled out by machinery and manned labor. A portion of the recycling profits were to come back to Bladen. The project failed because our trash was collected in unmanned, open collection sites with items such as water hoses and the like that kept the machines down. | | Therefore, in 2000, plans began to eliminate the disposal of trash in over 115 unmanned, unsightly drop off sites with over 385 green dumpsters. The only green dumpsters remaining are at the schools and government buildings and are serviced with Bladen's only front loader. |
| -Eliminate the old green box dumpster site | 12-2007 | The final convenient center with swap shop was put in operation in December of 2007.<br><br>Note: Bladen began disposing MSW at Sampson County as BFI in December 1996 with Good Earth Trucking hauling until November 1, 2008. |

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|---|---|---|
| | | All **MSW and CD** is transferred to the Bladen County Solid Waste Transfer Station located on 1522 Mercer Mill Road. It is transported to the Roseboro Waste Industries's Sampson County Disposal MSW/CD landfill by First Tee of Pinehurst.<br><br>Residential MSW compactors, rolls offs of brown goods, yard waste, white goods and scrap metals, and other collections of recyclable materials are transported to the transfer station and on to Sampson County or picked up by the respective company for recycling.<br><br>The MSW residential and MSW / C& D commercial trash from the incorporated municipalities of Elizabeth-town, Dublin, White Lake, Bladenboro, and Clarkton is brought into the transfer station through Waste Management trucks for disposal in landfill at Sampson Company.<br><br>The towns of Tar Heel and East Arcadia use our convenient centers for recycling and household trash disposal. |
| -Renew 10 year contract for disposal of MSW in Sampson County. | 10-20-08 | A new disposal contract with WI was signed for an additional 10 years in October 2008. Contract will expire October 20, 2018. |

| | | |
|---|---|---|
| -Develop an RFP and advertise for a new MSW hauler.<br><br>-Sign a contract with a new hauler. | 6- 2008<br><br>10-2008 | A new 10 year contract signed with First Tee Transport of Pinehurst, N. C. The MSW/CD is hauled to Sampson County by First Tee Transport of Pinehurst. The contract will expire November 1, 2018. |

# PLAN OF ACTION –
## EDUCATION WITH THE COMMUNITY AND THROUGH THE SCHOOLS

| PLAN OF ACTION/ GOALS | DATE COMPLETED | UPDATES/ PLANS FOR COMPLETION |
|---|---|---|
| -Continue affiliation with the Keep America Beautiful Organization (KAB) to stay aware of programs, etc. available for improving solid waste handling practices. Contact is KAB, Inc. 1010 Washington Boulevard, Stamford, Connecticut, 06901. Phone # 203-323-8987. | Ongoing | Bladen County became certified as a KAB affiliate on April 28, 1991.<br><br>A board was established by the Bladen County Board of Commissioners as Keep Bladen Beautiful (KBB). A coordinator and a representative from each district was appointed by the BOC to serve on board.<br><br>Annual dues for KAB affiliation of $250 are up to date. The current coordinator is Solid Waste Administrative Assistant, Gloria Dove Allen. |
| -Continue affiliation with Carolina Recycling Association (CRA) to stay up on the latest recycling opportunities and network with other counties and recycling companies. | Ongoing | Annual dues of $130 are up to date for Solid Waste and Recycling Director Robert Mazur, who is also General Services Manager of Operations. |
| -Continue state and national affiliation with Solid Waste Association of North American. This association allows for good networking with other counties and state officials. | Ongoing | Annual dues of $171 are up to date for Solid Waste Director Robert Mazur. |
| -Continue conducting Keep Bladen Beautiful Environmental Programs in the elementary schools. | Ongoing | Program currently being conducted annually by the KBB Coordinator in the 4th grades. |

| | | |
|---|---|---|
| | | The title of the elementary school program is “How Can I Make Earth Day Every Day”. Topics include littering, reduce, reuse and recycle, composting, conservation of natural resources, etc. |
| -Purchase a KBB mascot with funds from 2 of our largest contributors, Wal-mart and Smithfield. | 11-2007 | A mascot was approved for purchase by the Board. The mascot is appropriately named, Les Litter”. From 2007 – 2009, Les Litter, as the coordinator, participates in parades, at booths, at festivals, etc. He plays an important role in conveying KBB’s message to the schools. Les is currently played by Luke Hill, a home schooled student, during the public schools programs. |
| -Continue promoting recycling activities, functions, and proper disposal practices through monthly columns in the local newspaper. The column is called “Talking Trash with Les Litter.” The column is usually written by coordinator of KBB or as directed by Solid Waste Director in promoting various new programs. | 11-2007 | Recycling programs are held for various groups and clubs by the coordinator as requested. |
| -Finalize a new brochure to be published and distributed throughout the county. It will provide a lot of information on how to prepare items for recycling, etc. | | Cost to publish and distribute will be covered in recent recycling grant awarded during 2009. |

| | | |
|---|---|---|
| -Conduct training sessions with attendants who operate our 17 convenient/recycling centers on the new items added to recycling program. | | Training will be completed when recycling trailers are ready for installation at our centers. This is part of our Comprehensive Recycling Program as outlined in the 2009 grant application. |
| -Continue to do PSAs and spots on the local radio by 4-H students or the coordinator. | | The news media in Bladen are very cooperative with Solid Waste and KBB coordinator in assisting with awareness of its programs. |
| -As funds are available, continue to provide essay and poster contests on recycling and keeping Bladen clean and beautiful for school students. | | There has been good participation for the past 3 – 4 years with the essay and poster contests in the public schools and with the home schooled students in 2009. . |

## PLAN OF ACTION - SPECIAL WASTE

| PLAN OF ACTION/ GOALS | DATE COMPLETED | UPDATES/ PLANS FOR COMPLETION |
|---|---|---|
| | | Note: For details on recyclable items see Recycling & Reuse Chart. |
| -Continue to have our scrap metal company remove the CFCs from refrigerants. | Ongoing | Metal Recycling handles our CFCs. |
| -There are no plans for accepting household hazardous waste at this time. | | |
| -Continue to collect used motor oil. | Ongoing | Used oil and waste water is serviced by Safety Kleen. We receive recycling revenue for used oil. A huge price is charged for disposal of the waste water. |
| -Continue to collect our waste water for proper disposal. | Ongoing | |
| -Continue to accept tires for recycling. | Ongoing | Central Carolina Tire Disposal services our tires for recycling. |
| -Continue to accept lead-acid vehicle batteries for recycling. | Ongoing | Mack's Battery Recycling collects our batteries for recycling. |
| -Continue to provide sites for collection of pesticide plastic containers for recycling. | Ongoing | U.S. Ag services our pesticide plastic jugs and chips them up for recycling. |
| -There are no plans for handling asbestos materials at this time. | | However, residents of Bladen County having asbestos materials for disposal are instructed to carry to Waste Industries for proper disposal in Roseboro, N.C. They must make contact prior to drop off for instructions. |

# PLAN OF ACTION
# ILLEGAL DISPOSAL AND LITTERING

| PLAN OF ACTION/ GOALS | DATE COMPLETED | UPDATES/ PLANS FOR COMPLETION |
|---|---|---|
| -Continue with the public awareness of how littering mars our beautiful county through the KBB program. | Ongoing | The KBB program conducts an extensive annual "April Spring Clean", a litter pickup. Groups, schools, churches, businesses, DOT Adopt-A-Highway groups, etc. participate.<br><br>The sponsors are White Lake Water Park, who for the last 2 years has given a day water park pass to each participant; Smithfield Packing and Wal-Mart who regularly donate for cash drawings as well as other projects; and Waste Management who has given 4 VIP Nascar tickets for 2 drawings for many years. The cleanup is highly publicized via newspaper, radio, emails, articles, and during programs, etc. The awareness of the event is what it is all about. |
| -Continue the KBB program "Report the Litterbug". Citizens and the security officers (convenient center attendants) call in and give a report with license numbers when available. If the offense is simple littering involving a vehicle, the owner of the vehicle is contacted with a lst. offense warning letter by a member of the solid waste office staff or the KBB Coordinator. | Ongoing | Radio spots are done by 4-H students and articles put in newspaper about littering with the theme "Don't Be a Litterbug".<br><br>The security officers are instructed to call 911 for sheriff deputy assistance in case someone is not properly disposing of trash. |

| | | |
|---|---|---|
| -The Solid Waste Director will continue to serve as the Solid Waste Enforcement Officer. He is backed up by the Sheriff's Department as needed. | Ongoing | Funds are not available to employ a dedicated full time enforcement officer at this time. |
| -Plans are to revise/update our solid waste ordinance to better address illegal dumping, etc. | | The illegal dumping reported is not as high as we expected after having removed all the open, unmanned green box sites and converting to manned, fenced in attractive centers. |

## PLAN OF ACTION - DISASTER RESPONSE

| PLAN OF ACTION/ GOALS | DATE COMPLETED | UPDATES/ PLANS FOR COMPLETION |
|---|---|---|
| -Accept responsibility for participation when the EOC is opened according to the BC Emergency Operations Plan. | 2008 | Note:<br>Solid Waste is an important participant in the Bladen County Emergency Operations Plan especially in the aftermath of a storm cleanup. A copy is held by the Operations and Solid Waste Director. Staff will be called in as necessary in case of an emergency as designated in the plan. |
| -Attend training on managing storm debris. | 4-2009 | Director and supervisor attended NC DENR Disaster Debris Management Workshop in April of 2009. |
| -Designate and provide for disposal of storm related debris in designated area when local county officials declare a disaster emergency or when the Governor declares Bladen County in a State of Emergency. | June 17,2009 | A temporary Disaster Debris Site has been established at Aviation Parkway, N 34.60142 W78.59657. The entrance is off Brown Marsh Road. The Site Number is DS09-005.<br><br>Proper signage is ready for installation when site is activated by local county officials as directed by the Governor in a State of an Emergency. |

| | | |
|---|---|---|
| **<u>IMPORTANT:</u>**<br><br>**See Bladen County Solid Waste Contacts at end of this document.**<br><br>**In the event of an Emergency, Drew Hammonds, Environmental Senior Specialist is to be notified to properly activate the site for us as a staging area. His number is 910-433-3351**. | | An agreement was signed between N.C. Department of Transportation and Bladen County for removal of debris during a State of Disaster or Imminent Threat of Disaster and/or a State of Emergency has been declared according to Chapters 14 and 166A of the NC General Statues. The agreement is on file in the County Emergency Operations Center and the Solid Waste Management Office. |

## PLAN OF ACTION – PURCHASING RECYCLED PRODUCTS

| PLAN OF ACTION/ GOALS | DATE COMPLETED | UPDATES PLANS FOR COMPLETION |
|---|---|---|
| -Bladen County will continue to Purchase recycled paper products in quantity whenever economical. The County purchasing department contracts with a copier company for services that provide recycling opportunities. | Ongoing | |
| -Continue to use remanufactured vehicle products, toner products, plastic items and equipment parts on county equipment when repaired, if possible. | Ongoing | |
| -County will continue to encourage employees and county residents to buy recycled products. | Ongoing | |

## Part III. ASSESSMENT OF PROGRAMS AND DESCRIPTION OF INTENDED ACTIONS

### A. Reduction

Current: The county began a comprehensive recycling program in 2001. The original plan was to construct 13 manned collection/recycling centers throughout the county. In December, 2007, the last of 17 collection/recycling centers were put in operations See Map and List of Center on Pages 48 – 50.

A swap shop and recycling shed was installed at each center. The centers provide residents with a one stop to drop off household trash, recycling collections, and leave their unwanted items that are too good to trash so that someone else can use them. The centers are landscaped, kept clean, fenced in, and are manned by a security officer.

The centers have been highly accepted by the public. See Recycle and Reuse Chart on page 11-18 for detailed information on items collected for recycling at the transfer station as well as the convenient centers. See Map and List of Convenient Centers on pages 48 – 50 for names, addresses, and dates of opening for each convenient/recycling center.

County offices and town halls practice source reduction. Electronic mailings has reduced the amount of paper trash in offices.

Bladen is currently working on a new educational recycling brochure for distribution to the public so everyone will have instructions on how to reduce, reuse, and recycle. See Attachment 2 for a copy of the proposed brochure. With the above changes in our residential collection, our training of the officers at our centers, and the excellent coverage our newspaper give us, we feel we can have a 40 per cent reduction in our solid waste stream by FY 2020 .

The commercial sector of our county uses our transfer station facilities and are encouraged to separate their trash for recycling. In some cases, when the items have been banned from the landfill, separation is required. They in turn are rewarded for recycling with a smaller amount left for which to pay tipping fees. The response is very good. Bladen County does not have large waste volume industries. However, we do have a municipality, White Lake, that produces a high volume of waste through tourism.

Intended Actions: We plan to continue operation of our 17 collection centers. We plan to continue educating our citizens on proper disposal through recycling, etc. We plan to continue to provide recycling opportunities as feasible and economical as possible.

## B. Collection

Current County Program - Waste is collected and hauled by the county and private haulers. We issue permits to private haulers of MSW for a fee of $75.00 per year. The private haulers range in size from national waste hauling firms, such as Waste Management hauling for the municipalities, to locals. Each private hauler has to sign a regulation agreement with the county providing information as requested. Waste from industries is hauled to the county transfer station or directly to Sampson County Disposal Inc.'s landfill. However, in the case of Smithfield Packing, our largest industry, their waste is hauled to Robeson County's landfill.

Waste is hauled from the convenient centers to the transfer station through 3 county roll off trucks. One front end truck collects waste from the only remaining 6 yard dumpsters located at the government buildings and schools. Operational hours for the manned sites is from 7a.m. to 7 p.m. each day except Wednesday and Sunday. Solid waste generated by rural household is accepted at the centers in enclosed compactors. Households are charged user fees annually of $60 for collection and $70 for disposal. Construction and demolition are carried to the transfer station for a tipping fee of $45. See Recycle and Reuse Chart page 11 – 18 for detailed information on recycling collection.

Intended Actions - Plans are to continue with the operation of the convenient centers and haul waste and recyclables to the transfer station from these sites utilizing county personnel.

Bladenboro – Residential solid waste is collected curbside by Waste Management and transported to the Bladen County Transfer Station. Their white goods and scrap metals, brown goods, C & D, etc is collected and transported to the transfer station by their public works staff. Bladenboro collects from the residents the actual tipping fee amount of $45 per ton for C & D. Their yard waste is disposed in their permitted leaf and limb landfill. Residents are charged the county disposal user fee of $70 per year. Commercial waste hauling is contracted with Waste Management by individual business or carried to landfill direct by a contractor or a homeowner for a tipping fee of $45.

Clarkton - Solid waste is collected curbside by Waste Management and transported to Bladen County Transfer Station. The public works department collects the white goods and scrap metals for recycling at the transfer station yard. Their yard waste is disposed in their permitted yard waste landfill. Residents are charged the county disposal user fee of $70 per year. Commercial waste is contracted with Waste Management by individual business or carried directly to the transfer station for a tipping fee of $45. The Town of Clarkton has a successful recycling center. It is partially manned and opened each day at special hours and maintained by the Clarkton Beautification Committee.

Dublin - Solid waste is collected curbside by Waste Management. Residents are charged the county disposal user fee of $70 per year. Commercial waste is contracted with Waste Management by individual businesses or carried to transfer station direct for a tipping fee of $45. Dublin residents are instructed to carry brown goods, scrap metal /white goods, and yard waste to the transfer station.

East Arcadia - No solid waste collection service is provided by the town. Residents use the collection centers and are charged the county user fees of $60 for collection and $70 for disposal.

Elizabethtown - Solid waste curbside and recycling collections are contracted through Waste Management. The town has an unmanned, fenced in recycling center located near the public works facility. The public works staff collect and transfer their brown goods, white goods, and scrap metals to the transfer station. They have a yard waste permitted site but are currently transporting to the Bladen County newly permitted leaf and limb landfill. Commercial waste is contracted with Waste Management by the individual to transfer station direct for a tipping fee of $45.

Tar Heel – No solid waste collection service is provided by the town. Residents use the collection centers and are charged the county user fees of $60 for collection and $70 for disposal.

White Lake – Solid waste is collected curbside by Waste Management. Residents are instructed to carry brown goods, white goods, and scrap metals to the county transfer station as well as C & D for a tipping fee of $45. White Lake has a leaf and limb permitted landfill collected by the public works staff. Commercial waste is contracted by individual businesses with Waste Management or it is carried directly to the transfer station for a tipping fee of $45.

**C. Recycling and Reuse**

**Note:** Years ago, when recycling began being addressed by state officials, each municipality constructed an unmanned recycling facility with a roll off container for collecting steel cans, aluminum, 2 kinds of glass, 2 kinds of plastic, and newspapers. The collections were very contaminated even with many training sessions conducted with various groups in the communities. After the VEDCO Project came into play, the sites were closed. The VEDCO project was to remove recyclables from the waste stream with machines at a processing plant in Fayetteville and the energy was to be used to power a utility plant. The VEDCO project also failed. Thus, began the plans for developing convenient centers to replace the green box unmanned system for resident trash disposal and addition of recycling opportunities.

County Program - Bladen County is currently in the process of completing it's comprehensive recycling program which began in 2001. Seventeen convenient recycling centers are in full operation strategically located throughout Bladen

County. They are fenced in, landscaped, and manned by security officers. Recycling and reuse items currently collected at the sites are tires, batteries, white goods, scrap metals, aluminum cans, used motor oil, electronics, oil filters, oyster shells, and pesticide containers jugs. See Recycle and Reuse Chart page 11-18 for information on each item.

Materials Received for Recycling - June 1, 2008 - May 31, 2009

| MATERIAL | TONS | GAL. | NUM. |
|---|---|---|---|
| Scrap Metals / White Goods | 613 | | |
| Aluminum | 1.6 | | |
| Tires | 515 | | |
| Pesticide jugs | | | 1923 |
| Corrugated Cardboard | 41 | | |
| Lead Acid Batteries | | | 57 |
| Used motor oil | | 2908 | |
| Electronics | 20 | | |
| Oil Filters | | | 3,120 |

With metal prices good, we are not getting the large volume we had previously due to the scrap collectors. We are confident though that the majority of our precious metals are recovered. Bobby Taylor of Bladenboro operates a privately owned small buy back recycling center for the collection of aluminum and scrap metals.

Many county government offices are collecting cans for recycling. They are collected for resale by individual employees. The schools were awarded a Coca Cola Recycling Bottle grant to provide containers for collection of soft drink containers. Bladen County Solid Waste applied 2 years in a row for the same grant, but was not funded. The containers are being held until the county's comprehensive program is in place. Bladen County Solid Waste has recently been awarded a DPPEA Recycling Grant to provide recycling trailers at all the convenient centers for the collection of mixed paper, bottles, aluminum cans, and plastic bottles. The project is scheduled to begin in July of this year with the county's deadline of October, 2008. Bryants Recycling will service the schools along with the county convenient centers when the full project is in place.

A private group for handicapped / special people collect aluminum cans and newspapers for recycling. Proceeds go to the group for recreation.

Intended Actions: To complete the comprehensive recycling program with the recycling grant, implement full recycling in the government offices and work with the schools to implement their Coca Cola Recycling Grant.

Incorporated Municipalities - The Town of Elizabethtown is the only municipality that operates a recycling drop-off center located near the public works facility. The site is landscaped, fenced in, but is not attendant manned. The site collects aluminum and steel cans, corrugated cardboard and plastic in recycling roll off containers. Mixed paper, including magazines and newspaper, is collected in six 200 gallon roll carts and is picked up for reuse by the Raleigh Observer. The other items are serviced by Waste Management. The remaining town residents use the transfer station and convenient centers for drop off of their recyclable materials
The Town of Clarkton's Recycling Center is serviced by Bryants Recycling out of Clinton, N.C.

**D. Composting and Mulching**

County Program - Composting and Mulching is not a part of the county's current program. It is not economically feasible due to the lack of funds to buy expensive equipment for doing so. Yard waste from households is received at the convenient centers and at the transfer station for free as part of the user fee program.
It is transported to, or dropped off, directly at the newly designated leaf and limb landfill. See details in the Composting and Mulching Chart on page l8 - 20. Land clearing acceptance at the transfer station is not a part of our program.

Intended Actions: Yard waste disposal for households will remain a part of our user fee program for residents.

**E. Incineration with Energy Recovery**

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

Intended Actions - The County has no plans to build and operate an incinerator with energy recovery.

**F. Incineration without Energy Recovery**

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

Intended Actions - The County has no plans to build and operate an incinerator without energy recovery.

## G. Transfer of Solid Waste Outside Geographic Area

Current Program - Bladen County owns and operates a transfer station with 65 X 65 floor to push MSW. The transfer station was built as part of VEDCO-BCH project in l994. It opened during fiscal year 94/95 and is currently operating under Permit # 09-04T.

Original plans were to transfer MSW to Cumberland County VEDCO—BCH for incineration. The project failed and went bankrupt because it lost anticipated revenue to operate the system. Bladen County then signed a one year contract with BFI, and then renewed it for 10 years with the option to renew existing contract for an additional 7 years. The facility changed names to Sampson County Disposal, owned now by Waste Industries. The county currently transfers MSW to the Sampson County Disposal, Inc., a private facility located outside of Roseboro, N.C. Waste Industries has a 37 year life expectancy with Permit #8202. Bladen County renewed the disposal contract with WI for an additional l0 years on October 20, 2008 to expire in 2018.

Intended Actions - Bladen County will continue operating it's transfer station and sending MSW to WI under the new contract. We will continually keep our equipment and facility replaced and/or repaired.

## H. Disposal Capacity

County Program - The Bladen County landfill closed in l994. At present we are transferring our MSW to Sampson County (see prior Section G and Transfer Out of Geographic Area Chart) Bladen receives all of the municipalities' residential and commercial MSW at the present with the exception of Smithfield Packing, Bladen's largest industry. Smithfield Packing transfers waste to Robeson County landfill each day which is approximately 4 miles away from them. Daily they transfer 80-100 tons by private hauler. Robeson County is closer than Bladen's Transfer Station.

Disposal Capacity - Municipalities - All of the municipalities send their residential and commercial MSW to our transfer station through contracted haulers.

Bladen's C & D Landfill closed on June 30, 2008. It was projected to last 15 years. However, an unusual amount of concrete materials coming in filled it up in five years. Currently, all construction and demolition materials are disposed on the transfer pad with MSW and transported by First Tee Hauling to WI permitted C&D / MSW Landfill.

## Part IV. EDUCATION, SPECIAL WASTES, ILLEGAL DISPOSAL PURCHASING, DISASTER RESPONSE, and FINANCING

### A. Education with the Community and Through Schools – County Program

Current Program - Bladen County's current population consist of many Hispanics. This has presented a unique situation to the County prompting all educational material to be bilingual. The completion of the last of 17th convenient centers gives Bladen an opportunity to really reach the rural area. The sites are staffed with security officers that provide instructions to the residents. The direction signage is in English and Spanish.

A second educational brochure describing the materials accepted, hours of operation, and how the materials are to be prepared for disposal / recycling is currently being designed See proposed brochure projected for completion, print, and distribution this year at the end of this document. The printing and distribution will be funded by a recently funded recycling grant. See Recycling and Reuse Chart on page 11-17 for details for recycling opportunities in affect with the implementation of our final step in our comprehensive recycling program.

Bladen County takes advantage of its affiliation with Keep America Beautiful to help educate the citizens of Bladen County on the proper way to handle waste in our area. In l990, Bladen County appointed a position with the title of Keep Bladen Beautiful and Recycling Coordinator. The purpose of this program was to encourage proper handling of solid waste including recycling, reduction, and reuse as well as litter prevention. The Keep Bladen Beautiful program is in full operation with the added personnel in the scale house. See the Educational Chart for details on the environment program conducted through a l0 – 12 member board working with a coordinator.

Intended Actions – Continue operation of the solid waste collection centers with the awareness continued by the attendant on site on a one-on-one basis. Use the manned centers to provide an excellent method of conducting special programs and special collections. Educational flyers and programs brochures will be distributed by the attendants.

Conduct training with the site attendants when our comprehensive recycling program is completed as planned this year as to the proper way of preparing items for recycling. Continue to use the media to discourage littering in Bladen County.

Incorporated Municipalities - The towns do not have formal community or school education programs. Requests for programs on recycling are directed to the Keep Bladen Beautiful Board.

**B. Special Waste Management**

County and Municipal Current Program

(See Recycle and Reuse Chart on page 11-18 for details on recyclable items)

**Tires:**
Tires are collected free of charge at the county's transfer station as well as the convenient centers. The tires are stored in vans for pick up by the recycling company. Only five tires can be taken at the centers at one time. In an effort to reduce the excess number of tires brought from out of state or county, over five tires brought in from tire dealers, the public or other generators are required to complete a state tire form certifying that the tires were generated in Bladen County. The towns utilize our facilities for tire disposal.

Intended Actions: Continue the current method of collecting and recycling tires.
Keep reminding the public dealers to dispose of tires as they accumulate to prevent harborage of mosquitoes.

**White Goods:**
White goods and other scrap metals are collected at the transfer station as well as the convenient centers. They are stockpiled at the transfer station. A metal recycling company comes periodically and picks up our collection. The CFCs (chlorofluorocarbons) are removed from the refrigerants.

Citizens, residential and commercial, enjoy free disposal of their white goods and metals and are eager to separate it from the waste stream to reduce their tipping fees. The metals and white goods are collected in 25 yard roll off containers at each of the collection sites and then hauled by county staff to the transfer station. The towns utilize this free service.

Free disposal of these items depends on the funding and grants from the state white goods disposal tax and the continuing good price for scrap metal paid by the service company.

Intended Actions - Bladen County will continue to apply and utilize funding and grants from the state's white goods disposal tax. Bladen County will continue to collect these items for free as long as the funding remains and the price of metal is good.

**Lead-Acid Batteries:**

Lead-acid vehicle batteries are collected at the collection centers and the transfer station. The batteries are put in spill proof basin at the centers and on pallets at the transfer station pad. At present, we are receiving $3 for each battery that is picked up regularly by a private, registered company. For the past fiscal year, we have only collected 57 at the centers and at the transfer station. The towns are

encouraged to use the county facilities for battery recycling. Many batteries are recycled when a new one is purchased from the retailer such as Wal-Mart and Advance Auto Parts.

Intended Actions -Bladen County will continue to provide recycling for batteries.

**Used Motor Oil**:
Collection of used oil is provided free to all citizens at the collection center and at the transfer station. The transfer station collects the used oil in a 500 gallon drum. The collection centers collect 1 – 5 gallon containers of oil and store them in a leak free special basin. It is then collected by county staff and transferred to the transfer station drum. The towns are encouraged to use the county facilities for oil disposal.

Intended Actions: Continue to collect used motor oil through this method. Continue to promote the free service at the convenient centers.

**Household Hazardous Waste:**

Neither the county nor the towns have a household hazardous waste program at this time. The county does not have the financial resources to establish a permanent facility for HHW or to sponsor a HHW day. Homeowners are given the Emergency Services contact number for questions about chemicals, etc.

**Pesticide Plastic Jugs:**
The farm service office trains farmers to properly rinse their pesticide plastic jugs and encourages the use of the pesticide container collection program at 8 of the convenient centers. The collections are housed in a separate fenced in cage with a detailed instruction sign. See Map and List of Convenient Centers on page 48 - 50 for locations and addresses of the drop offs. The sites with caged collection areas for plastic pesticide jugs have a star at the beginning of the name.) Workshops were held for the farmers as well as the center attendants. Pictured brochures with instructions are available for distribution to farmers and new attendants. They are serviced by US Ag.

Intended Actions: Continue to keep the pesticide drop offs open and serviced through US Ag.

**Veterinary Waste:**

Neither Bladen County nor the towns provide for this special waste. Due to the many hog and chicken producers in Bladen County, there is a large amount of veterinary waste including sharps, syringes, etc. The hog and chicken industries assume the responsibility for the safe, environmentally sound disposal of this special waste themselves.

Intended Actions: Bladen County has no plans to provide disposal for the veterinary waste.

**Seepage:**

**There is no special program for seepage. It is handled by private haulers per case.**

**Asphalt and Concrete:**
Asphalt and Concrete waste is collected with C & D and MSW materials on the transfer pad and transported to WI permitted C & D / MSW Landfill.

**C. Illegal Disposal /Litter Prevention**

Current Program:
Bladen County does not have a dedicated full time litter enforcement officer. Currently the Solid Waste Director acts in this capacity. Bladen County provides the police force of county with the means to write civil citations and penalties pertaining to illegal disposal and dumping. Incidents or reports of illegal dumping, or any other violation, is investigated by the Solid Waste Director in cooperation with the sheriff's department .

Bladen County is a member of Keep America Beautiful, Inc. Bladen's affiliate name is Keep Bladen Beautiful. KBB has a "Swat The Litterbug" Program. We also use the NC Department of Transportation's litterbug program in special cases of out of county littering, etc. Individual letters are mailed and/or phone calls are made when simple vehicle littering reports are called in. Illegal dumping incidents are reported to the Solid Waste Director for handling with the assistance of the sheriff's department when needed. The Sheriff's Department works well with the Solid Waste Department.

The county utilizes the NC Department of Correction inmate labor in picking up litter on the highways with work crews. They regularly clean major thoroughfares in the county and work on secondary roads as time allows. Keep America Beautiful's motto is "When an area is clean, it discourages littering. "

Keep Bladen Beautiful works with the NC Department of Transportation's Beautification Program. KBB promotes and encourages the "Adopt-A-Highway" DOT program, which involves roadside litter cleanup.

KBB also conducts an annual Spring Litter cleanup each April. The participation and awareness is great. KBB Coordinator serves as the Big Sweep Coordinator for the annual NC Big Sweep waterway cleanup.

Bladen County Solid Waste takes pride in it's working relationships with the other County and State Departments.

The towns are encouraged to participate in the 2 annual cleanups conducted in Bladen County each year.

Intended Actions: Bladen County does not plan to hire a dedicated enforcement officer at this time due to budget restraints. We do plan to continue our current programs. We plan to update our Solid Waste ordinance in the near future pertaining to littering as time permits.

**D. Purchasing Recycled Products- County Program**

Bladen County purchases recycled content products whenever it is economically feasible and the quality of the product is adequate.

Intended Actions: Continue to purchase recycled content products whenever it is economically feasible.

**E. Disaster Response**

County and Municipal - Bladen County Solid Waste Department is a part of the Bladen County Emergency Operations Plan. The plan was updated in 2008. The extensive plan is on file with the Operations and Solid Waste Director.

The County through the Solid Waste Department staff will provide a means for disposing of storm related debris at a designated site approved by the state and county officials. The scale house will be responsible for keeping data for storm debris. See Disaster Response Chart page 33-34 for detailed information on designated permitted site for storm debris disposal.

A waiver of all tipping fees is set when a State of Emergency is declared for all storm related debris for a period of time as approved by the County officials based on the severity of the disaster. This declaration is good for a period time as approved by county officials, or for 6 months from the time of declaration based on the severity of the storm.

## Part V. SOLID WASTE COST AND FINANCING METHODS

County:

Description of Cost - Bladen County operates it's own solid waste collection, disposal, and recycling program through it's enterprise fund. The total cost of operations for 07/08 FY was $l,303,809 for collections and $772,080 for disposal for a grand total of $2,075.889. The recycling program cost is not kept separate. The average cost per ton was $l05 and the cost per household was $150. The incorporated towns contract their curbside MSW collection through Waste Management funded by monthly user fees. The towns of Tar Heel and East Arcadia depend on the county operated programs.

The following revenues fund our enterprise fund:

**Financial Methods** - The current Bladen County solid waste program is funded through the county household solid waste user fee, sale of recyclables, grants, tire and white goods management funds, and interest.

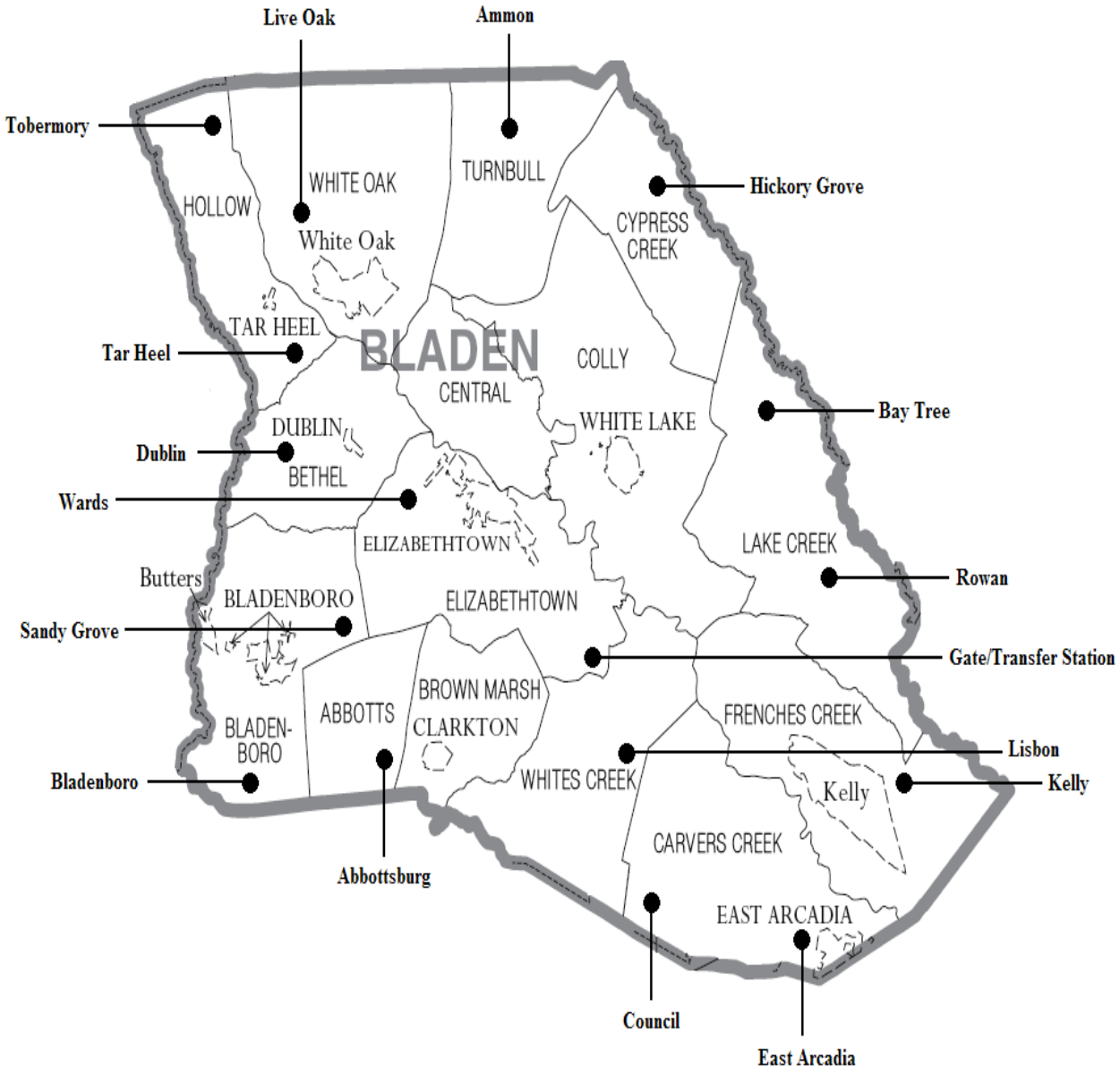
**Household User Fees** – Rural households are charged $70 for disposal and $60 for collection making a total of $130. Municipal households are charged $70 for disposal.

**Tipping Fees** – The current charge for items placed in the county transfer station is $45 per ton for all C & D debris and for commercial MSW. Residential MSW is free since it is covered through the household user fees.

**Sale of Recyclables** – Sales of metal has been real good for the past several years. We have seen a decline because citizens collect it and sell it themselves. The sale of recyclables is not a reliable source of revenue since the markets fluctuate considerably. With gas prices rising, hauling is expensive.

**Grants and Tire and White Goods Management State Funds** – The free disposal of tires, scrap metals and white goods is dependant on grant funds received. Recycling startups are dependant upon grants funded by State, various agencies and companies. The county applies for grants when the matching is affordable.

# BLADEN COUNTY SOLID WASTE CONVENIENT/RECYCLING CENTERS



## Bladen County Solid Waste Convenient Centers

| Site | Telephone # | Date Opened |
|---|---|---|
| 1. Ammon Collection Center<br>119 Ammon Com. Center Road<br>Garland, NC 28441 | 588-4403 | 12-2001 |
| 2. * Hickory Grove Collection Center<br>80 Hwy 210 West<br>Garland, NC 28441 | 529-1295 | 01-2002 |
| 3. * Dublin Collection Center<br>6771 Hwy 41 West<br>Bladenboro, NC 28320 | 862-2379 | 04-2003 |
| 4. Tobermory Collection Center<br>1852 Tobermory Road<br>St. Pauls, NC 28384 | 865-3160 | 05-2003 |
| 5. * Bladenboro Collection Center<br>46 Webb Faulk Road<br>Bladenboro, NC 28320 | 863-3269 | 09-2003 |
| 6. Tar Heel Collection Center<br>423 Tar Heel Ferry Road<br>Tar Heel, NC 28390 | 862-6174 | 07-2004 |
| 7. Lisbon Collection Center<br>2373 White Plains Church Road<br>Clarkton, NC 28433 | 645-2230 | 03-2005 |
| 8. Sandy Grove Collection Center<br>3206 Horse Shoe Road<br>Bladenboro, NC 28320 | 648-2845 | 05-2005 |
| 9. * East Arcadia Collection Center<br>77 Kennedy Store Road<br>Riegelwood, NC 28456 | 669-2845 | 06-2005 |
| 10. Abbottsburg Collection Center<br>13887 Twisted Hickory Road<br>Bladenboro, NC 28320 | 648-2845 | 10-2005 |
| 11. Wards Collection Center<br>370 NC Hwy 53 West<br>Elizabethtown, NC 28337 | 862-2365 | 11-2005 |

| | | |
|---|---|---|
| 12. Live Oak Collection Center<br>13763 NC Hwy 53 West<br>White Oak, NC 28339 | 866-5847 | 03-2006 |
| 13. * Rowan Collection Center<br>16956 Hwy 210 East<br>Ivanhoe, NC 28447 | 669-3297 | 05-2006 |
| 14. Council Collection Center<br>120 Carvers Creek Road<br>Council, NC 28434 | 669-6407 | 10-2006 |
| 15. * Kelly Collection Center<br>19867 NC Hwy 53 East<br>Kelly, NC 28448 | 669-3297 | 06-2006 |
| 16. * Bay Tree Collection Center<br>10431 NC Hwy 41 East<br>Harrells, NC 28444 | 588-4763 | 07-2007 |
| 17. * Gate Convenient Center<br>1522 Mercer Mill Road<br>Elizabethtown, NC 28337 | 645-4279 | 07-2007 |

* Accepts pesticide plastic containers for recycling

## BLADEN COUNTY SOLID WASTE CONTACTS

| | | |
|---|---|---|
| Bladen County Solid Waste | Office<br>Fax | 910-645-4279<br>910-645-2181 |
| Emergency Operations Center | Office | 910-862-6760 |
| County Manager | Gregory J. Martin | 910-862-6700 Off<br>910-862-9021 C<br>910-862-3750 H |
| Solid Waste Director,<br>Enforcement Officer, &<br>Operations General<br>Services Manager | Robert Mazur | 910-876-3490 C<br>910-872-6320 Off<br>910-862-6785 Off<br>910-874-5588 H |
| EMS | 911-Central | 910-862-8141 |
| EMS Director | Mitchell Byrd | 910-862-6761 Off<br>910-876-2174 C<br>910-866-4033 H |
| Sheriff | Stephen Bunn | 910-862-6960 Off<br>910-876-2941 C<br>910-862-4656 H |
| Recycling Coordinator &<br>Administrative Assist. | Gloria Dove Allen | 910-872-1905 C<br>gdove@bladenco.org |
| Scale House Operator | J. Brandon Smith | 910-876-0335 C<br>bsmith@bladenco.org |
| Collection Supervisor | Ricky Hall | 910-876-3694 C |
| Disposal Supervisor | Steve Melson | 910-876-4603 C<br>smelson@bladenco.org |

Mail and Deliver Address:

1522 Mercer Mill Road

Elizabethtown, N. C. 28337