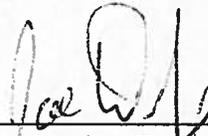


## Certification

I hereby certify that I am an officer of the public entity shown below and that I hold the title indicated. The 63 pages attached hereto are true, correct, and accurate copies of the original and current adopted Solid Waste Management Plan for Forsyth County as documented and maintained in my office.



---

Joe Dunlop, Program Coordinator  
Office of Environmental Management  
Georgia Department of Community Affairs

Sworn to and subscribed  
Before me this 25th day of February, 2010



---

Notary Public

JO M. PONCE  
Notary Public, Cobb County, Georgia  
My Commission Expires Feb. 17, 2012

# Georgia Department of Community Affairs

## Invoice

Bill To: Hodges, Harbin, Newberry and Tribble  
484 Mulberry St. Ste. 265  
Macon, GA 31202

Date: Feb. 25, 2010

### Description

One copy (63 pages) Forsyth County Ten Year Solid Waste Management Plan 2004

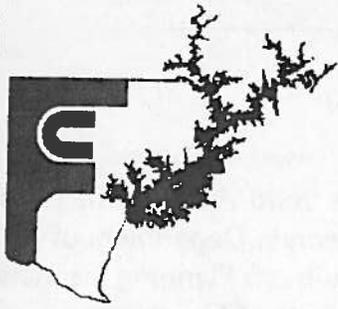
(Electronic copying shall be charged at a rate of \$ .25 per page (normal 8.5x11)/oversize maps \$5.00 - \$20.00 per sheet, depending on size. Staff time taken to make the copies will also be charged. The first 15 minutes of staff time will be free of charge. Staff time taken beyond 15 minutes will be charged at \$17.30 an hour.)

**Total Due: \$15.75**

Make checks payable to Georgia Department of Community Affairs

Please remit payment, with copy of the invoice, to:

Patti Insinna  
Georgia Department of Community Affairs  
Office of Environmental Management  
60 Executive Park South, NE  
Atlanta, Georgia 30329-2231



# FORSYTH COUNTY TEN YEAR SOLID WASTE MANAGEMENT PLAN 2004



**Forsyth County Department of Engineering  
Solid Waste Division  
110 East Main Street, Suite 120  
Cumming, Georgia 30040**

*For more information on Forsyth County's solid waste management plan, contact the  
Department of Engineering at 770-781-2165 or online at [www.forsythco.com](http://www.forsythco.com)*

**RESOLUTION**

**BE IT RESOLVED** that the 2004-2013 Comprehensive Solid Waste Management Plan for Forsyth County has been approved by the Georgia Department of Community Affairs and is in compliance with the Minimum Planning Standards and Procedures for Solid Waste Management in the State of Georgia and;

**BE IT FURTHER RESOLVED** by the Forsyth County Commissioners, that the Board did adopt the said Solid Waste Plan on 14 June 2004 as prepared by the Advisory Committee.

**IN WITNESS WHEREOF**, we have hereunto set our hands and caused the Seal of Forsyth County, a political subdivision of the State of Georgia, to be affixed hereto, this 14th day of June 2004.



**FORSYTH COUNTY BOARD OF COMMISSIONERS**

*Jack Conway*  
\_\_\_\_\_  
Jack Conway, Chairman

*Marcie Kreager*  
\_\_\_\_\_  
Marcie Kreager, Vice Chairman

*Charles Laughinghouse*  
\_\_\_\_\_  
Charles Laughinghouse, Secretary

*David F. Pritchett*  
\_\_\_\_\_  
David F. Pritchett, Member

*Eddie Taylor*  
\_\_\_\_\_  
Eddie Taylor, Member

Attest: *Janice B. ...*  
\_\_\_\_\_  
Clerk to the Board

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In 1991, Forsyth County adopted its first Ten Year Solid Waste Plan. This document is an update to that plan, focusing on revised population and employment projections to the Year 2020. This plan will cover the ten year period from 2004-2014, and revisions to the developed short term work program will be made as needed.

Forsyth County is located in the north-central part of Georgia, covering approximately 223 square miles, and is part of the metropolitan Atlanta region. This plan will cover all the unincorporated areas in Forsyth County as well as accounting for the City of Cumming resident's usage of the County Recycling Centers.

Gwinnett County and Fulton County border Forsyth County on the south, Cherokee County on the west, Dawson County on the north, and Hall County to the east. Centrally located is the City of Cumming, the county seat and the only incorporated area in Forsyth County. The county is served by GA Route 400, a limited access highway, as well as State Routes 9, 20, 53, 141, 306, 369, and 371.

Any questions regarding this ten-year solid waste plan update should be directed to Mr. Tim L. Allen, Assistant Director of Engineering, 110 East Main Street, Suite 120, Cumming, Georgia, 30040, Phone Number (770) 781-2165, Extension 2786.

Since 1990, Forsyth County has ranked as one of Georgia's fastest growing counties, with an overall growth rate of over 123 percent during the ten-year period from 1990 to 2000. This rapid growth rate is expected to continue as the Atlanta Metropolitan Area expands to the north. Growth can be measured in many ways: absolute or percentage population increases, the "footprint" of the developed area, and measurable increases in the level of urban activity throughout the county.

An understanding of the existing transportation network, development patterns, and waste disposal trends as well as demographic information about the County's population are necessary and form the foundation of this plan. This plan update has been developed using an inventory of the existing waste and recycling facilities, an analysis of socio-economic data for the county, and information about land use, growth trends, and emerging development patterns and current waste disposal and recycling trends

In addition to the information on the existing waste and recycling activities, the assessment of existing conditions also includes an analysis of employment, population and income in the county. A description of the land use types, their intensity and their location have been considered in the plan update. In order to predict future needs, it was necessary to determine the capacity of the existing

system. Information on current transportation, development, and socio-economic conditions in the Forsyth County area has been compiled organized for each planning zone.

#### Planning Analysis Zones (PAZs)

Prior to the collection of data, the study area boundaries and planning analysis zones (PAZs) were identified for data tabulation and analysis. It was important that the number and size of PAZs were appropriate for the nature of the transportation study. Often census tracts are used as planning zones because socio-economic data are easily available from the U.S. Census Bureau. However, the 1990 U.S. Census Report shows Forsyth County being divided into six U.S. census tracts. In order to obtain the detailed level information needed for this Plan Update, it was necessary to subdivide these census tracts into additional PAZs.

A total of seventy-five PAZs were delineated based on physical boundaries such as roads and waterways. Smaller zones were necessary in the southern portion of the county due to its current development and potential rapid growth in order to project traffic volumes in greater detail. To properly analyze major roadways that cross into adjacent counties, it was necessary to establish external stations for analysis containing socio-economic data representative of the adjoining area.

#### Inventory of Existing Land Use

Land use characteristics are a primary factor in determining solid waste and recycling demand. For example, shopping centers, residential subdivisions and industrial parks generate different levels and types of waste or recyclable. The socio-economic characteristics of the people living within the county also influence the waste disposal and recycling demands. Once the PAZ system was established for the Forsyth County study area, the existing land use and socio-economic data were determined for each PAZ to serve as the basis for predicting demand. Inventories were made of population, employment, and dwelling units for each defined PAZ within the study area.

Single-family residences can be found throughout Forsyth County. The inventory of dwelling units was determined from data supplied by the Forsyth County Planning Department, field inventories, and a review of new aerial photography. Recent zoning decisions were also factored into the analysis process.

#### Retail Employment

Employment was divided into two categories for analysis purposes; retail and non-retail employment. Retail employment is a measure of commercial and retail activity. The inventory of retail employment was derived from a 2000 Atlanta Regional Commission (ARC) review of total employment in Forsyth County based on Department of Labor statistics.

#### Non-Retail Employment

Non-retail employment represents all employment other than retail. This includes

government, service-related fields, manufacturing, etc. Non-retail employment was tabulated from the 2000 ARC Employment Study. This survey was supplemented by numerous field trips to the study area. Figure 1-1 summarizes the inventory of dwelling units, retail employment and non-retail employment for each PAZ for the base year (2000).

FIGURE 1.1: PLANNING ANALYSIS ZONES (PAZs)

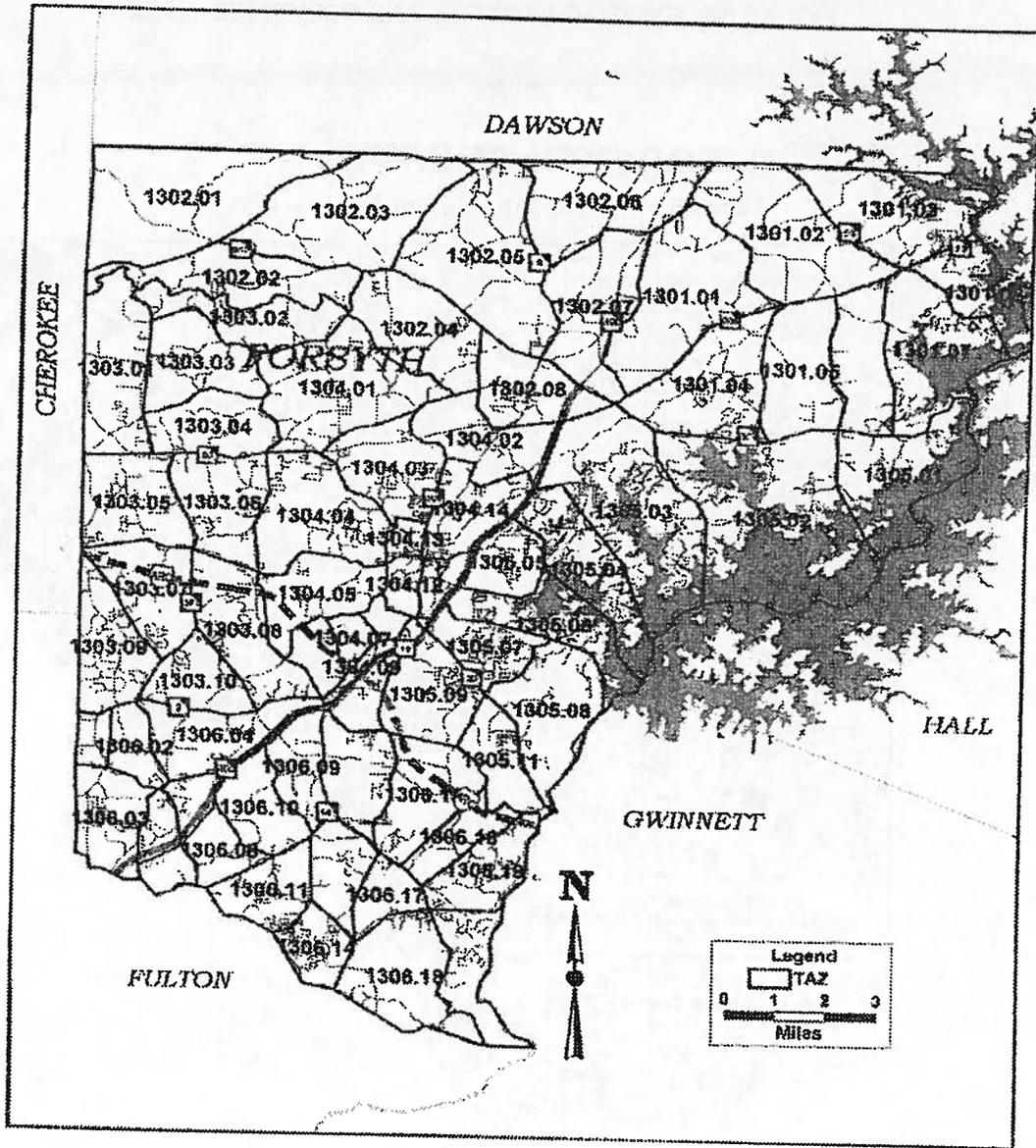
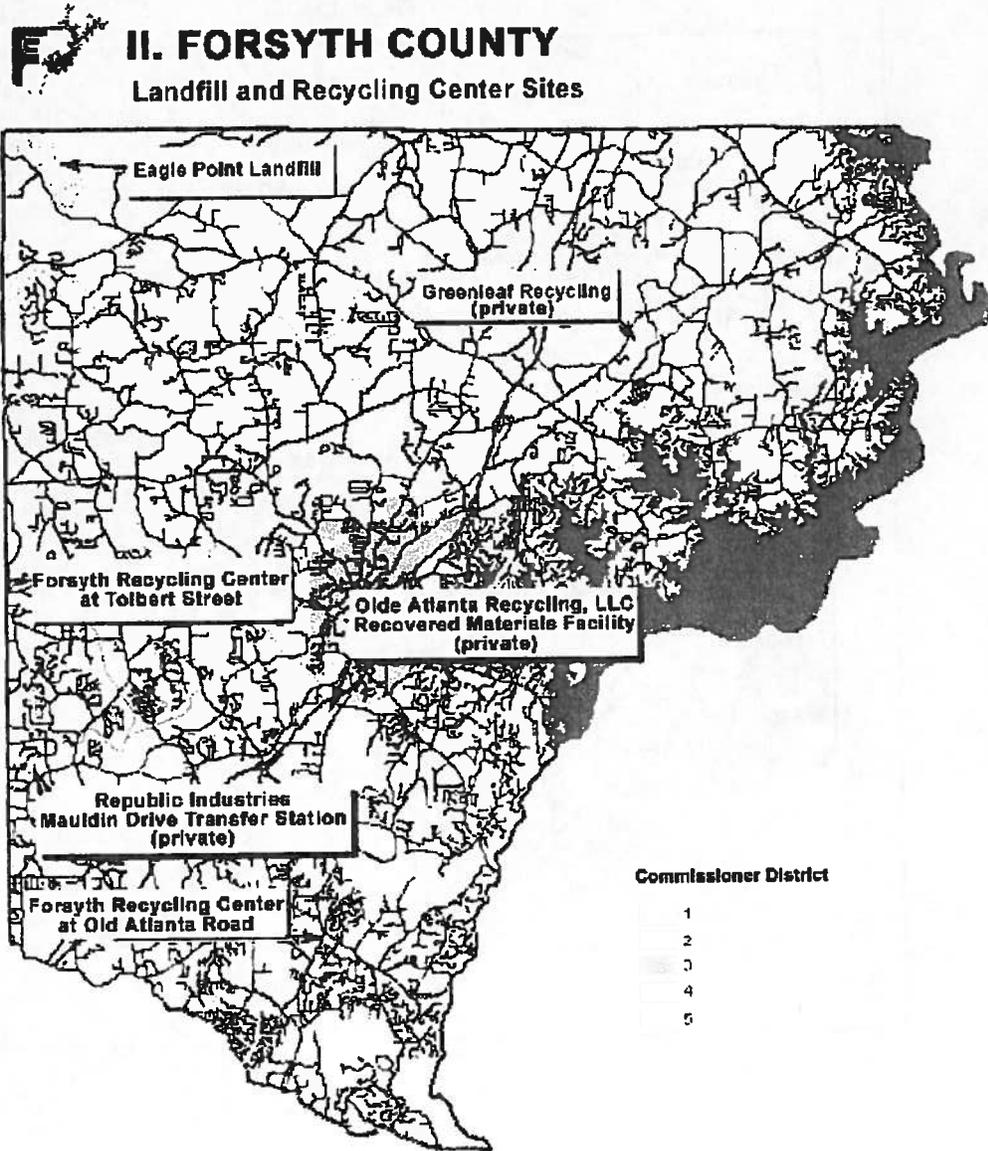
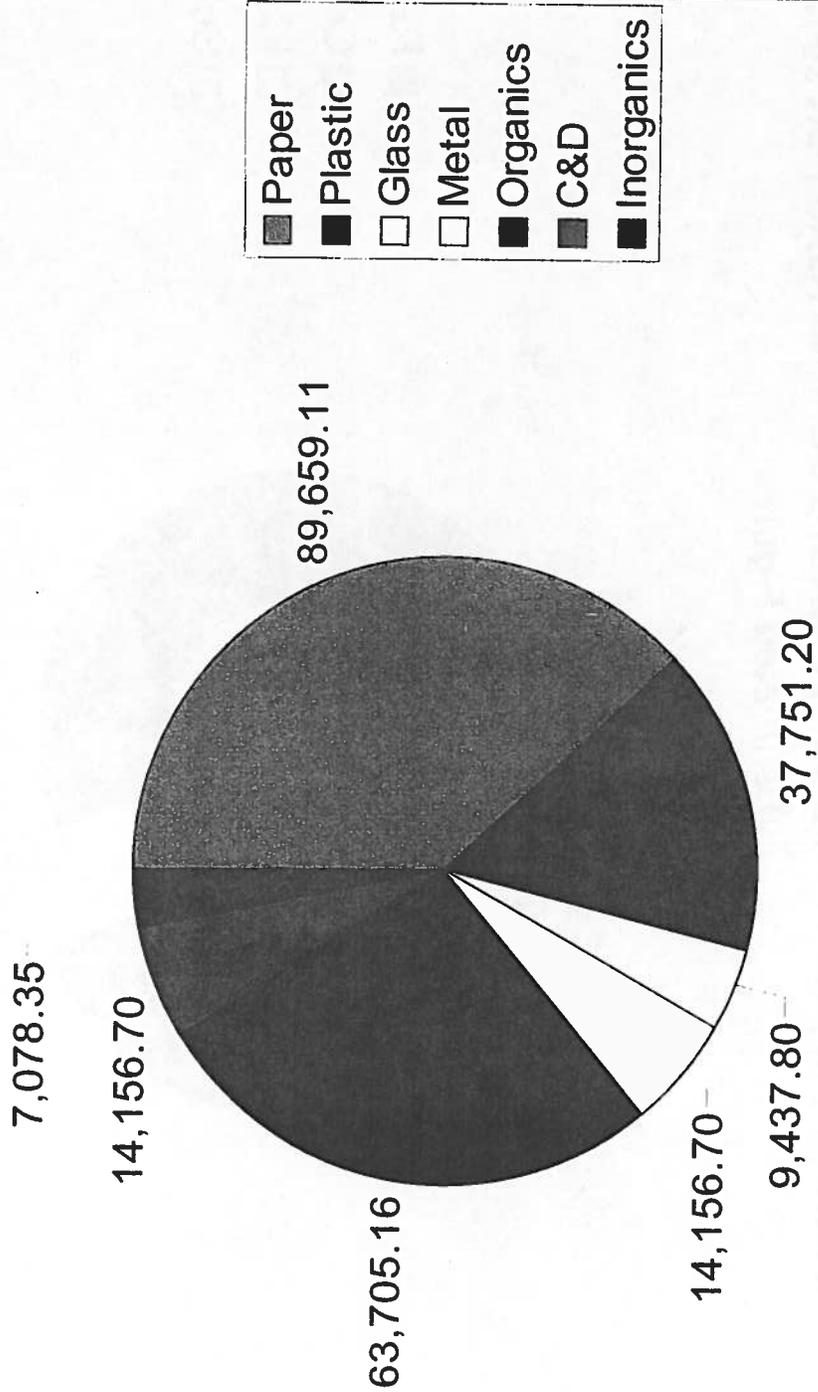


FIGURE 1.2 EXISTING LANDFILL AND RECYCLING SITES



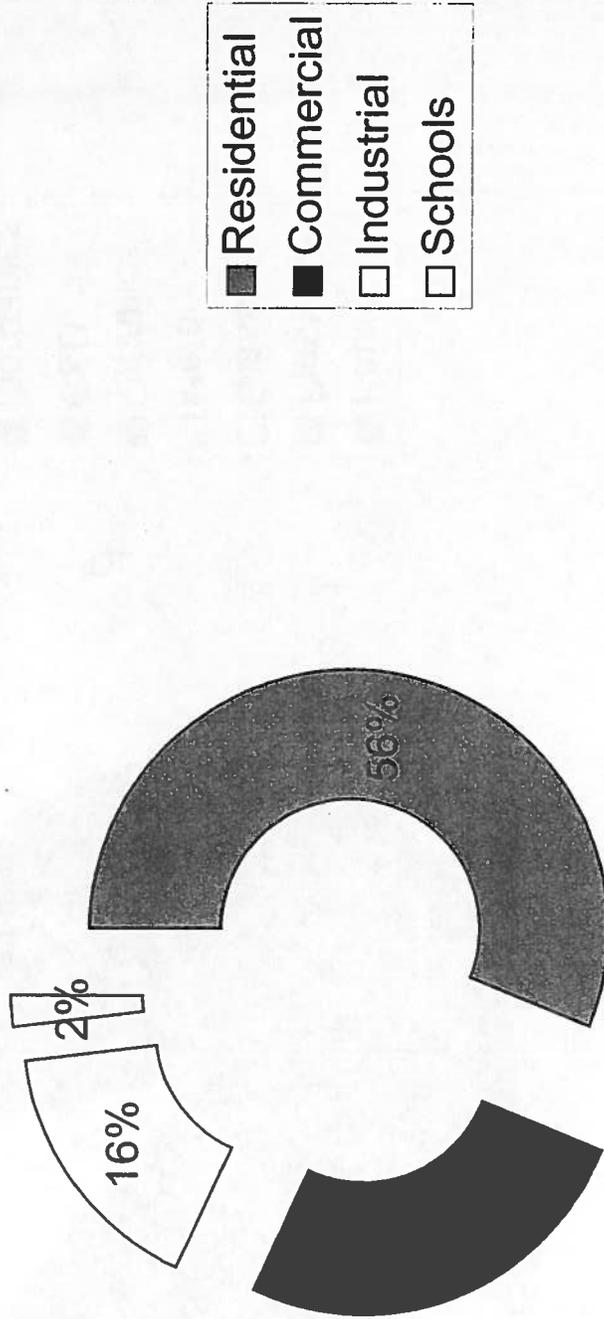
**FIGURE 1.3: FORSYTH COUNTY 2002 WASTE CHARACTERIZATION**

*Numbers shown in tons*



**FIGURE 1.4: FORSYTH COUNTY WASTE GENERATORS FOR 2002**

*Estimated Figures*



**TABLE 1.1: FORSYTH COUNTY TEN-YEAR PROJECTED WASTE DISPOSAL**

<b>YEAR</b>	<b>POPULATION</b>	<b>TONS PER YEAR</b>	<b>CUBIC YDS PER YEAR</b>
2003	142,618	85,571	311,136
2004	157,355	94,413	343,286
2005	172,093	103,256	375,439
2006	184,902	110,941	403,382
2007	197,711	118,627	431,328
2008	210,520	126,312	459,271
2009	223,329	133,997	487,213
2010	236,139	141,683	515,159
2011	245,151	147,091	534,823
2012	254,163	152,498	554,483

The above figures were obtained from the Forsyth County 2002 Major Transportation Plan. Figures are compiled at a six (6) pounds per ton ratio that includes residential, industrial, demolition and construction waste. Computation is figured at 3.636 times tonnage. This applies to an average six pounds of waste per person in the population averages.

***INVENTORY AND ASSESSMENT OF EXISTING PROGRAMS***

*According to the 2002 Georgia Solid Waste Management Update, the State of Georgia's 25% waste disposal reduction goal is a per capita reduction goal based upon all municipal solid waste disposed within the state. It does not exclude waste generated from out of state sources and disposed in landfills located within the state. The impact of out of state waste imports plays a role in the state achieving its 25% waste disposal reduction goal. The average amount of waste disposed in Georgia was recorded as 8.25 pounds per person per day including construction and demolition material and 6.05 pounds including only municipal waste and excluding out of state waste imports. This average is several pounds above the national average waste generation of approximately 4.0 pounds per person per day.*

At present, Forsyth County's waste reduction efforts at two (2) county recycling centers include the recycling of newspapers, office paper, phonebooks, magazines, cardboard, aluminum cans, steel/tin cans, #1 and #2 plastic, glass, motor vehicle oil, alkaline batteries, rechargeable batteries and printer cartridges. Additionally, 21 of 23 county schools and six (6) of the Forsyth County Fire Stations accept mixed paper and newspaper for recycling. Several grocery stores in the county accept paper bags, plastic bags and polystyrene trays for recycling. Several office supply stores in the county accept printer cartridges for recycling and allow customers to return polystyrene peanuts. The county Home Depot and Lowe's Home Improvement Stores accept rechargeable batteries for recycling. The Forsyth County administration building and courthouse recycle all mix papers, office paper, cardboard, magazines and phone books.

To successfully reduce our solid waste, the residents of the county have the opportunity to be educated on the importance of natural resources, conservation and the benefits of recycling. The education programs can be provided to businesses, schools, civic organizations and county citizens. Information and guidelines regarding source reduction and recycling is available from the Resource Coordinator of Keep Forsyth County Beautiful and will be discussed in Section 5.

Data for municipal solid waste and recycling collected in Forsyth County are received from Eagle Point Landfill and the Forsyth County Recycling Centers. This data can be helpful for assessing the waste reduction needs of the county. Currently waste haulers who work in the county are not required to report the amount of waste or recycled materials they collect from Forsyth County residents.

## NEEDS AND GOALS

*Forsyth County has a goal is to insure, at minimum, a 25% annual waste reduction goal (i.e. reduce, reuse, recycle) through the year 2013 in the amount of solid municipal waste being collected in Forsyth County.*

- 1) **Source and Waste Reduction** - This option of reduction will inevitably prove to be the most effective and environmentally sound component to reduce waste.

A) Increase Public Awareness - The County needs to expand public information programs on and about solid waste, what it costs, who has to pay, and how we can reduce the volume as well as the cost. The following guidelines should be encouraged by the Keep Forsyth County Beautiful (KFCB) program:

- The reuse of appliances, furniture, and clothing is becoming more acceptable and necessary. Reuse, rather than discard, products by donating, reselling or swapping products, appliances, clothing, etc., whenever possible. Churches, thrift shops, and consignment houses are good alternatives to placing reusable goods in the landfill.
- Educate the public about product design/packaging to reduce the purchase of materials that cannot be recycled or that are "wasteful" in our market. Encourage consumers and business to reduce the amount of waste through more conscientious purchasing and use of products with increased product life and reusability.
- Continue Recognition Awards for schools, government, civic organizations and businesses that are involved in KFCB waste reduction and recycling programs.
- Expand public education programs for source reduction through posters, media campaigns, weekly newspaper columns and radio announcements.

B) County Waste Hauler Policy - Create a county maintained system that requires commercial haulers, private businesses and other solid waste facilities to report the collection locations, volumes and types of solid waste being collected from county residents. These numbers could help to assess the needs of the county to reduce the amount of solid waste being generated and increase the amount of recycling that is available to residents. Additional policies and procedures will need to be

established that require commercial haulers to provide this information on an annual basis so that it may be evaluated.

- C) "Volume Based" Rate System - study data to see if this would reduce the amount of garbage being generated.

## 2) **Recycling**

- A) Recycling Centers - Expansion of and implementation of new recycling facilities. Construction of additional recycling centers as detailed in the Forsyth County Capital Improvement Plan. There should be eight (8) additional recycling centers constructed in the county with at least one in each commission districts within the next five (5) years from approval of the plan. To meet our 25% reduction in solid waste and perform at a level of proficiency, we will need to have these eight (8) recycling centers operating as efficiently and conveniently as possible.
- B) Recycling Education – Increase public knowledge through tours of recycling centers that include an information program with handouts. Encourage the use of the county recycling centers an/or waste haulers who offer recycling.
- C) Expand private hauler collection of recyclable materials See Section 2 for details.
- D) Expand the types of items recycled at County Recycling Centers.
- E) Expand County School Recycling Programs – continue partnership with Board of Education on recycling in the schools.
- F) Seasonal Collection Events and Drives – Hold seasonal events for the collection and recycling of items such as Christmas trees, phone books, thermometers, electronics and household hazardous waste.
- G) Forsyth County Government Recycling Reduction Plan – Continue and update the efforts of government employees to participate in a mandatory program for paper recycling in county buildings as an example to the community.

- 3) **Composting** - Composting operations are environmentally and ecologically beneficial. By returning yard waste and organic materials back into rich humus, we both reduce the amount of material in our gardens and lawns.

- A) Home Composting - Encourage all homeowners and residents who have access to an appropriate area in which to produce their own compost. Instruction on home composting is readily available from the county extension agent's office and will also be provided by Keep Forsyth County Beautiful.
- B) Subdivision/Homeowner Compost Share Yards
- C) Composting Clinics - Partner with home improvement store to conduct composting program / clinics.



**INVENTORY AND ASSESSMENT OF EXISTING PROGRAMS****Solid Waste Collection**

At present, there are seventeen (17) private collection companies. These companies collect household waste and industrial waste throughout the County. Out of the seventeen, seven (7) offer recycling. The City of Cumming has one (1) waste and industrial waste hauler and do not offer recycling at this time. All collection companies are required to obtain a county business license and a permit to transport waste to a landfill. Table 3.1, is a list of the companies that transport waste in Forsyth County. \*

**Recycling Collection**

The County has two (2) manned recycling centers where residents can bring their recyclable material free of charge and residential household waste for twenty-five cents (.25) a bag. The centers are located in Forsyth County Commission Districts 1 and 2. The Tolbert Street Recycling Center is located at 351 Tolbert Street in downtown Cumming. This location serves the entire city of Cumming because there are no recycling centers operated by the city. The Old Atlanta Road Recycling Center is located at 3678 Old Atlanta Road in the south end of the county. Hours for both centers are Monday through Saturday 7:30AM to 5:00 PM and both close on major holidays. Forsyth County hauls the solid waste from the centers to Eagle Point Landfill and the recyclable items are transported to private material recovery and processing facilities.

In 2002, the Forsyth County Recycling Centers collectively received an average of 200 tons of household waste per month, 2090 lbs of aluminum per month, 62,154 lbs of newspapers per month, 10,757 lbs of plastic, 30,128 lbs of glass, 7,740 lbs of office paper, 19,945 lbs of magazines, 6,714 lbs of phonebooks, 38,500 lbs of cardboard, 2,090 lbs of aluminum cans, 3,150 lbs of tin/steel cans, and 718 gallons of oil.

**Environmental Code Enforcement**

Forsyth County has an Environmental Code Enforcement Officer who's main responsibilities include identifying illegal dumpsites, fielding public complaints on litter and proper solid waste disposal and inspecting scrap tire generating facilities, carriers and sorters. At the end of 2002, the officer has investigated and identified 118 cases of illegal dumping, solid waste and environmental hazards.

The Code Enforcement Officer follows the rules and regulations of solid waste management set forth in County Ordinance 84. Forsyth County Ordinance number 84 was made effective in June 1999 providing for consistency with the Forsyth County Ten Year Solid Waste Plan and addressing the need to institute

**TABLE 3.1: WASTE TRANSPORT COMPANIES**

Company	Residential-Recycling	Commercial	Industrial	C&D
B&B Waste	<input type="radio"/> yes			
BFI	<input type="radio"/> yes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Caine Sanitation	<input type="radio"/> no			
Heard Sanitation	<input type="radio"/> no			
Holbrook	<input type="radio"/> yes	<input type="radio"/>		<input type="radio"/>
Jones Sanitation	<input type="radio"/> no			
Longhorn Sanitation	<input type="radio"/> no			
McCoy Sanitation	<input type="radio"/> no			
Patriot Waste	<input type="radio"/> yes	<input type="radio"/>		<input type="radio"/>
United/Robertson	<input type="radio"/> yes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mooney	<input type="radio"/> no			
Whitemire	<input type="radio"/> no			
BullDog		<input type="radio"/>		<input type="radio"/>
Evans		<input type="radio"/>		<input type="radio"/>
Sanitation Solutions	<input type="radio"/> yes			
Waste Mgt	<input type="radio"/> yes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
G&G		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

\* Companies listed are known entities; there may be other companies that are not listed

a comprehensive approach to solid waste management. Enforcement of this ordinance is for the purpose of: *protecting public health, safety and welfare by preventing the dissemination of, and providing for the removal of, inorganic refuse materials detrimental to the general public and environment; to provide for the separation of yard trimmings from municipal solid waste as required by state law; and to protect and enhance the quality of water, air and overall environment by guarding against any of the degradations thereto which stem from the collection, transport, burial, deposition, or disposal of litter.*

## **PROGRAM NEEDS**

*Forsyth County has a goal to insure the efficient and effective collection for the subsequent ten (10) year plan period of solid waste and recyclable and materials able to be composted within Forsyth County.*

There is a need in Forsyth County for all residents to have the opportunity for both waste collection service and recycling pickup at their individual residence from all private waste haulers. This system needs to be operated in a way that makes the handling of garbage efficient county wide to keep the community free from roadside litter and illegal dumping.

Based on the recycling statistics collected at county centers, it was found that residents who do not subscribe to a collection service and even some who do would utilize additional recycling centers in the county. We recommend one of the larger recycling centers house a trailer for the disposal of scrap tires by county residents. In order to insure proper segregation of household waste and recyclable materials, all additional centers would have to be manned. Each new center creates a need for two new county recycling center operator positions. An additional roll off bin driver would be necessary to efficiently haul waste and recycling from the new centers once there are five centers in operation.

With a fast growing population and the ever-increasing addition of daily commuters on county roads, there is a serious concern for illegal dumping of tires and other solid waste. As a result of the county's growth, the Code Enforcement Officer's caseload is expected to increase over the next few years, such that an addition enforcement position should be added.

## **PROGRAM OPTIONS AND GOALS**

### **Collection Options**

- A) A private countywide collection system was considered for the collection of both household/industrial waste and recycled materials. This system would have to be regulated by the County through a contract. The County would put together specifications for the operation and service, then hold a public

bid and award the contract to the low bidder. This option would obviously create extensive legal ramifications for the county due to joint liability with the private contractor for public safety. Also, legal ramifications would be pursued from the numerous private collection companies due to being forced out of their existing business.

- B)** A municipal collection system was considered but would obviously put the County in the solid waste collection business. In order to provide this service, the County would have to invest a sizeable amount for collection trucks and additional personnel to operate the system. Due to the present state of the economy and the county budget, this option was not considered any further.

Forsyth County wishes to leave collecting for "open market competition" to private collection companies. At the present time, private collection companies are adequately handling solid waste collection in the county. Also, the open market competition assures a low cost effective service. A private franchise or municipal owned system would be hard pressed to compete with the existing "open market system".

- C)** Develop policy for private waste haulers who conduct business in the county that includes solid waste collection permitting regulations. Included in the regulations would be mandates requiring mandatory items to recycle, truck bed tarp covers, collection "zones". Also included in the regulations would be a request for a quarterly report of volumes of solid waste and recyclable materials collected by each hauler. This option could follow through once updates were made to Ordinance 84 .

### **Recycling Options**

- A)** An annual tax fee for recycling was considered that would allow Forsyth County Government to charge county residents a small annual fee (possibly on the water bill) to provide funds to run the recycling/collection centers. The tax fee would eliminate money handling at the centers, allowing the staff to be available for public assistance. It is speculated that the "drop off" area would move quicker and allow residents to bring all household waste without additional payment. This option can be further considered when several more recycling centers have been constructed in the county.
- B)** Provide additional recycling centers in accordance with the population density. Provide a minimum of one collection station

in each district. Provide a scrap tire bin for at least one of the new recycling centers. Additional centers will serve as a "back up" system to the private collection companies and provide an alternative for residents who do not want to or are unable to use a collection company. This would also reduce the number of residents visiting the landfill on a regular basis. It is speculated that this may encourage residents who are dropping off waste to also recycle items they would normally throw away.

- C) Possibility of a mandatory county recycling program if voluntary efforts from the above options do not produce significant reduction within the next ten years.

#### **Environmental Code Enforcement Options**

- D) Update Ordinance 84 to include rules and regulations for permitting process of private waste haulers who conduct business in Forsyth County.
- E) Increase Environmental Code Enforcement coverage through additional staff and training.

TABLE 3.2: RECYCLING COLLECTED AT TOLBERT STREET AND OLD ATLANTA CENTER LOCATIONS IN 2002

MONTH	NEWSPAPER Lbs/\$	OFFICE PAP. Lbs/\$	Phone Books Lbs/\$	MAG. Lbs/\$	CARDBD. Lbs/\$	ALUMIN. Lbs/\$	T/S CANS Lbs/\$	PLASTIC Lbs/\$	GLASS Lbs/\$	OIL Gal./\$	YEAR TO DATE TOTALS
JANUARY 2002	86,193 \$861.93	8,731 \$0.00		18,372 \$45.93	52,000 \$260.00	3,010 \$722.40	3,000 \$0.00	9,400 \$188.00	35,280 \$0.00	650	216,636 \$2,078.26
FEBRUARY 2002	48,980 \$367.37	6,992 \$0.00		18,441 \$46.10	22,000 \$110.00	2,150 \$537.50	2,800 \$0.00	7,680 \$153.60	33,220 \$0.00	600	142,863 \$1,214.57
MARCH 2002	62,647 \$469.90	6,200 \$0.00	32,000 \$0.00	19,202 \$48.01	32,000 \$120.00	1,650 \$462.00	8,000 \$0.00	8,920 \$178.40	27,740 \$0.00	550	198,909 \$1,278.31
APRIL 2002	71,672 \$537.61	10,828 \$0.00		27,951 \$69.89	36,000 \$135.00	2,020 \$565.60	2,000 \$0.00	10,430 \$208.60	16,880 \$0.00	500	178,281 \$1,516.70
MAY 2002	44,463 \$333.47	10,451 \$0.00	22,570 \$0.00	12,868 \$32.17	34,000 \$255.00	1,250 \$375.00	4,000 \$0.00	13,800 \$276.00	30,600 \$0.00	900	174,902 \$1,271.64
JUNE 2002	67,410 \$505.63	5,584 \$0.00		17,990 \$44.99	44,000 \$330.00	2,700 \$783.00	2,000 \$0.00	9,400 \$188.00	37,460 \$0.00	610	187,154 \$1,851.62
JULY 2002	54,047 \$405.37	5,348 \$0.00	10,000 \$0.00	17,148 \$42.88	34,000 \$425.00	2,680 \$750.40	6,000 \$0.00	8,520 \$170.40	38,340 \$0.00	850	176,083 \$1,794.05
AUGUST 2002	59,302 \$444.82	7,733 \$0.00		14,111 \$35.28	50,000 \$625.00	1,390 \$389.20	2,000 \$0.00	10,340 \$206.80	29,020 \$0.00	750	173,896 \$1,701.10
SEPTEMBER 2002	59,510 \$446.35	9,973 \$0.00		17,764 \$44.43	38,000 \$475.00	3,160 \$853.20	4,000 \$0.00	8,830 \$176.60	14,620 \$0.00	780	155,857 \$1,995.58
OCTOBER 2002	83,989 \$629.98	6,586 \$0.00		30,446 \$76.14	30,000 \$300.00	0 \$0.00	0 \$0.00	19,040 \$380.80	49,220 \$0.00	1040	219,281 \$1,386.92
NOVEMBER 2002	42,174 \$316.34	3,795 \$0.00		10,921 \$27.31	48,000 \$432.00	5,080 \$1,524.00	2,000 \$0.00	7,220 \$154.40	7,600 \$0.00	450	126,790 \$2,454.05
DECEMBER 2002	65,457 \$490.93	10,669 \$0.00	16,000 \$0.00	34,120 \$85.32	42,000 \$315.00	0 \$0.00	2,000 \$0.00	15,500 \$465.00	41,560 \$0.00	930	136,110 \$1,356.25
TOTAL LBS	745,844	92,890	80,570	239,334	462,000	25,090	37,800	129,080	361,540	8,610	2,086,762
TOTAL \$	\$5,809.70	\$0.00	\$0.00	\$598.45	\$3,782.00	\$6,962.30	\$0.00	\$2,746.60	\$0.00	\$0.00	\$19,899.05

**TABLE 3.3: 2002 SOLID WASTE TRANSFERRED FROM TOLBERT STREET RECYCLING CENTER**

2002 Activity for Tolbert Street	Customers	Deposits	Loads		Tons		Cost of Tons		Loads		Tons		Cost	
			BFI	BFI	BFI	BFI	BFI	BFI	Eagle Point	Eagle Point	Eagle Point	Eagle Point	Eagle Point	Eagle Point
Jan-02	5,593	\$ 5,748.50	18	165.34	\$ 3,779.69	0	0	0	0	0	0	0	0	0
Feb-02	4,969	\$ 4,981.00	16	140.57	\$ 3,213.47	0	0	0	0	0	0	0	0	0
Mar-02	5,605	\$ 5,826.00	19	165.04	\$ 3,772.84	0	0	0	0	0	0	0	0	0
Apr-02	6,029	\$ 5,819.50	18	168.88	\$ 3,860.62	0	0	0	0	0	0	0	0	0
May-02	5,726	\$ 5,813.00	18	165.15	\$ 3,775.35	0	0	0	0	0	0	0	0	0
Jun-02	6,188	\$ 6,089.25	16	154.95	\$ 3,542.18	0	0	0	0	0	0	0	0	0
Jul-02	7,491	\$ 6,311.00	12	115.57	\$ 2,641.94	6	61.41	\$ 1,043.97	6	61.41	\$ 1,043.97	61.41	\$ 1,043.97	\$ 1,043.97
Aug-02	6,487	\$ 6,444.50	0	0	\$ -	18	176.74	\$ 3,004.58	18	176.74	\$ 3,004.58	176.74	\$ 3,004.58	\$ 3,004.58
Sep-02	5,569	\$ 5,570.00	0	0	\$ -	17	162.05	\$ 2,754.85	17	162.05	\$ 2,754.85	162.05	\$ 2,754.85	\$ 2,754.85
Oct-02	6,470	\$ 5,681.25	0	0	\$ -	18	169.27	\$ 2,877.59	18	169.27	\$ 2,877.59	169.27	\$ 2,877.59	\$ 2,877.59
Nov-02	6,003	\$ 5,778.00	0	0	\$ -	16	153.94	\$ 2,616.98	16	153.94	\$ 2,616.98	153.94	\$ 2,616.98	\$ 2,616.98
Dec-02	6,742	\$ 7,018.75	0	0	\$ -	23	207.09	\$ 3,520.23	23	207.09	\$ 3,520.23	207.09	\$ 3,520.23	\$ 3,520.23
<b>Totals</b>	<b>72,872</b>	<b>\$71,080.75</b>	<b>117</b>	<b>1,075.50</b>	<b>\$ 24,586.09</b>	<b>98</b>	<b>930.50</b>	<b>\$ 15,818.20</b>	<b>98</b>	<b>930.50</b>	<b>\$ 15,818.20</b>	<b>930.50</b>	<b>\$ 15,818.20</b>	<b>\$ 15,818.20</b>

TABLE 3.4: 2002 SOLID WASTE TRANSFERRED FROM OLD ATLANTA RECYCLING CENTER

2002 Activity for Old Atlanta	Customers	Deposits	Loads		Tons		Cost of Tons		Loads		Tons		Cost	
			BFI	BFI	BFI	BFI	Eagle Point	Eagle Point	Eagle Point	Eagle Point	Eagle Point	Eagle Point	Eagle Point	Eagle Point
Jan-02	1,237	\$ 1,043.50	3	22.84	\$ 522.12	0	0	0	0	0	0	0	0	0
Feb-02	1,197	\$ 806.00	3	21.07	\$ 481.66	0	0	0	0	0	0	0	0	0
Mar-02	1,383	\$ 1,038.50	3	20.74	\$ 474.13	0	0	0	0	0	0	0	0	0
Apr-02	1,437	\$ 1,205.00	5	30.91	\$ 706.59	0	0	0	0	0	0	0	0	0
May-02	1,489	\$ 1,065.50	4	30.18	\$ 689.92	0	0	0	0	0	0	0	0	0
Jun-02	1,539	\$ 982.50	4	32.57	\$ 744.57	0	0	0	0	0	0	0	0	0
Jul-02	1,669	\$ 1,307.00	4	22.22	\$ 507.96	2	10.56	\$ 179.52	2	10.56	\$ 179.52	10.56	\$ 179.52	179.52
Aug-02	1,731	\$ 1,166.00	0	0	\$ -	5	34.67	\$ 589.39	5	34.67	\$ 589.39	34.67	\$ 589.39	589.39
Sep-02	1,518	\$ 1,136.50	0	0	\$ -	4	28.96	\$ 492.32	4	28.96	\$ 492.32	28.96	\$ 492.32	492.32
Oct-02	1,615	\$ 1,027.00	0	0	\$ -	5	32.90	\$ 559.30	5	32.90	\$ 559.30	32.90	\$ 559.30	559.30
Nov-02	1,674	\$ 969.00	0	0	\$ -	5	32.94	\$ 559.98	5	32.94	\$ 559.98	32.94	\$ 559.98	559.98
Dec-02	1,748	\$ 1,488.00	0	0	\$ -	4	30.50	\$ 518.50	4	30.50	\$ 518.50	30.50	\$ 518.50	518.50
<b>Totals</b>	<b>18,237</b>	<b>\$13,234.50</b>	<b>26</b>	<b>180.53</b>	<b>\$ 4,126.95</b>	<b>25</b>	<b>170.53</b>	<b>\$ 2,899.01</b>	<b>25</b>	<b>170.53</b>	<b>\$ 2,899.01</b>	<b>170.53</b>	<b>\$ 2,899.01</b>	<b>2,899.01</b>

***INVENTORY AND ASSESSMENT OF EXISTING PROGRAMS***

The Forsyth County Hightower Landfill located on Old Federal Road was closed in July of 2002. During the month of the landfill closing, a privately owned landfill opened its doors to county residents and private haulers for the disposal of household waste, construction and demolition debris, and "white goods". Forsyth County is host to this privately owned Subtitle D landfill site. The privately owned site is owned by Federal Road, LLC d/b/a Eagle Point Landfill (EPLF). The site is located on Federal Road, adjacent to the closed county landfill site. Total site comprises of 700 acres, with a 163-acre landfill footprint. The State, Georgia Environmental Protection, Land Protection Branch monitor this site. EPLF has the most current federal & state environmental controls in place to protect the environment. EPLF has two agreements with Forsyth County. One agreement provides a preferential disposal rate for ten years for county directed facilities. The second agreement, as required by state law, provides a host fee to Forsyth County. The host fee paid to Forsyth County is calculated at the rate of \$1/per ton for each ton deposited in the landfill site. EPLF also provides tonnage deposited in the landfill site to the Georgia EPD.

In February of 2003, Greenleaf Recycling established themselves as a privately owned construction and demolition landfill. This landfill will accept appropriate materials from private waste haulers and individual county residents. Greenleaf landfill has one disposal area for construction and demolition materials and another for "earth-like" products such as plant debris, tree limbs and leaf litter. This landfill is located on Highway 306 (Keith Bridge Road), adjacent to American Proteins. *Note: Other known landfills and recycling facilities in the county are noted on the Existing Landfills and Recycling Sites Map in Part II.*

***NEEDS AND GOALS***

*Forsyth County has a goal to insure that solid waste treatment and disposal facilities serving local governments and regions meet regulatory requirements and are in place when needed to support and facilitate effective solid waste handling programs today and for the subsequent ten (10) year plan period, thereby maintaining and enhancing the quality of life of the citizens of Forsyth County.*

Approximately half of the Forsyth County residential solid waste hauled by private collection companies is transported to Eagle Point Landfill. Forsyth County has been provided for municipal solid waste and construction debris during the entire plan term through an agreement with Eagle Point Landfill, other disposal options were not considered.

TABLE 4.1: GEORGIA EPD LANDFILL VOLUME REPORT 2002

Reporting Year	Calendar Year	Quarter	Source Of Waste	ST	Total Tonnage Reported	Facility Name	County	Dormition	Facility Type	Facility/Type/Description
02		2	Forsyth Co	GA	0.30	CHEROKEE CO-SWIMS-SR 92 PH 4	CHEROKEE	Private Commercial	C&D	Construction and Demolition Landfill
01		4	Forsyth Co	GA	1.25	CHEROKEE CO-SWIMS-SR 92 PH 4	CHEROKEE	Private Commercial	C&D	Construction and Demolition Landfill
02		1	Forsyth Co	GA	178.26	CHEROKEE CONSTRUCTION AND DEMOLITION LANFILL	CHEROKEE	PRIVATE COMMERCIAL	C&D	Construction and Demolition Landfill
01		4	Forsyth Co	GA	17.40	CHEROKEE CONSTRUCTION AND DEMOLITION LANFILL	CHEROKEE	PRIVATE COMMERCIAL	C&D	Construction and Demolition Landfill
02		2	Forsyth Co	GA	328.27	CHEROKEE CONSTRUCTION AND DEMOLITION LANFILL	CHEROKEE	PRIVATE COMMERCIAL	C&D	Construction and Demolition Landfill
01		3	Forsyth Co	GA	162.92	PHILLIPS-SCALES RD C&D (L)	DEKALB	Private Commercial	C&D	Construction and Demolition Landfill
02		2	Forsyth Co	GA	36.07	PHILLIPS-SCALES RD C&D (L)	DEKALB	Private Commercial	C&D	Construction and Demolition Landfill
02		1	Forsyth Co	GA	117.63	PHILLIPS-SCALES RD C&D (L)	DEKALB	Private Commercial	C&D	Construction and Demolition Landfill
01		4	Forsyth Co	GA	111.40	PHILLIPS-SCALES RD C&D (L)	DEKALB	Private Commercial	C&D	Construction and Demolition Landfill
01		3	Forsyth Co	GA	5.66	BFI-EAST DEKALB LANDFILL	DEKALB	Private Commercial	C&D	Construction and Demolition Landfill
01		4	Forsyth Co	GA	21.06	BFI-EAST DEKALB LANDFILL	DEKALB	Private Commercial	C&D	Construction and Demolition Landfill
01		4	Forsyth Co	GA	299.95	RELIABLE TIRE SERVICE, MONROE DR.	HALL	Private Commercial	C&D	Construction and Demolition Landfill
01		3	Forsyth Co	GA	1,596.60	RELIABLE TIRE SERVICE, MONROE DR.	HALL	Private Commercial	C&D	Construction and Demolition Landfill
02		2	Forsyth Co	GA	445.49	RELIABLE TIRE SERVICE, MONROE DR.	HALL	Private Commercial	C&D	Construction and Demolition Landfill
02		1	Forsyth Co	GA	414.71	RELIABLE TIRE SERVICE, MONROE DR.	HALL	Private Commercial	C&D	Construction and Demolition Landfill
01		3	Forsyth Co	GA	11.70	APAC/GA-DONZI LN PH 5A (L)	DEKALB	Private Commercial	L	Construction and Demolition Landfill
02		2	Forsyth Co	GA	4.44	APAC/GA-DONZI LN PH 5A (L)	DEKALB	Private Commercial	L	Construction and Demolition Landfill
01		4	Forsyth Co	GA	18.79	APAC/GA-DONZI LN PH 5A (L)	DEKALB	Private Commercial	L	Construction and Demolition Landfill
02		1	Forsyth Co	GA	17.02	APAC/GA-DONZI LN PH 5A (L)	DEKALB	Private Commercial	L	Construction and Demolition Landfill
02		1	Forsyth Co	GA	234.38	CHADWICK RD LANDFILL, INC.	FULTON	Private Commercial	L	Construction and Demolition Landfill
02		2	Forsyth Co	GA	228.50	CHADWICK RD LANDFILL, INC.	FULTON	Private Commercial	L	Construction and Demolition Landfill
01		4	Forsyth Co	GA	531.44	CHADWICK RD LANDFILL, INC.	FULTON	Private Commercial	L	Construction and Demolition Landfill
01		3	Forsyth Co	GA	347.63	CHADWICK RD LANDFILL, INC.	FULTON	Private Commercial	L	Construction and Demolition Landfill
					5,130.87					

Reporting Calendar Year	Calendar Year	Quarter	Source Of Waste	ST	Total Tonnage Reported	Facility Name	County	Dominion	Facility Type	Facility Type/Description
01	3		Forsyth Co	GA	8.70	CHAMBERS R & B LANDFILL SITE #2	BANKS	Private Commercial	MSWL	Municipal Solid Waste Landfill
01	4		Forsyth Co	GA	26,861.31	REPUBLIC WASTE-OAK GROVE MSWLF SR324	BARROW	Private Commercial	MSWL	Municipal Solid Waste Landfill
02	2		Forsyth Co	GA	32,157.77	REPUBLIC WASTE-OAK GROVE MSWLF SR324	BARROW	Private Commercial	MSWL	Municipal Solid Waste Landfill
01	3		Forsyth Co	GA	29,710.35	REPUBLIC WASTE-OAK GROVE MSWLF SR324	BARROW	Private Commercial	MSWL	Municipal Solid Waste Landfill
02	1		Forsyth Co	GA	27,369.04	REPUBLIC WASTE-OAK GROVE MSWLF SR324	BARROW	Private Commercial	MSWL	Municipal Solid Waste Landfill
02	1		Forsyth Co	GA	16,470.79	CHEROKEE CO-PINE BLUFF LANDFILL, INC.	CHEROKEE	Private Commercial	MSWL	Municipal Solid Waste Landfill
01	4		Forsyth Co	GA	15,714.13	CHEROKEE CO-PINE BLUFF LANDFILL, INC.	CHEROKEE	Private Commercial	MSWL	Municipal Solid Waste Landfill
02	2		Forsyth Co	GA	2,678.50	CHEROKEE CO-PINE BLUFF LANDFILL, INC.	CHEROKEE	Private Commercial	MSWL	Municipal Solid Waste Landfill
01	3		Forsyth Co	GA	16,854.68	CHEROKEE CO-PINE BLUFF LANDFILL, INC.	CHEROKEE	Private Commercial	MSWL	Municipal Solid Waste Landfill
02	1		Forsyth Co	GA	2.19	BFI-HICKORY RIDGE (MSWL)	CHEROKEE	Private Commercial	MSWL	Municipal Solid Waste Landfill
02	2		Forsyth Co	GA	4.19	BFI-HICKORY RIDGE (MSWL)	DEKALB	Private Commercial	MSWL	Municipal Solid Waste Landfill
02	2		Forsyth Co	GA	20,259.62	EAGLE POINT LANDFILL	DEKALB	Private Commercial	MSWL	Municipal Solid Waste Landfill
01	4		Forsyth Co	GA	13,856.65	BFI-RICHLAND CREEK RD (SL)	FORSYTH	PRIVATE COMMERCIAL	MSWL	Municipal Solid Waste Landfill
02	2		Forsyth Co	GA	4,971.09	BFI-RICHLAND CREEK RD (SL)	GWINNETT	Private Commercial	MSWL	Municipal Solid Waste Landfill
02	1		Forsyth Co	GA	12,363.64	BFI-RICHLAND CREEK RD (SL)	GWINNETT	Private Commercial	MSWL	Municipal Solid Waste Landfill
01	3		Forsyth Co	GA	16,667.53	BFI-RICHLAND CREEK RD (SL)	GWINNETT	Private Commercial	MSWL	Municipal Solid Waste Landfill
02	1		Forsyth Co	GA	4.85	PECAN ROW MUNICIPAL SOLID WASTE LANDFILL	GWINNETT	Private Commercial	MSWL	Municipal Solid Waste Landfill
			Forsyth Co	GA	235,945.03		LOWNDES	Private Commercial	MSWL	Municipal Solid Waste Landfill

**INVENTORY AND ASSESSMENT OF EXISTING PROGRAMS****Natural Environmental Limitations**

Forsyth County has adopted, as part of its Unified Development Code, The Part V Environmental Criteria. This criteria endeavors to protect environmentally sensitive areas throughout the County. These areas include water supply watersheds (large and small), groundwater recharge areas, wetlands and river corridors. This criteria acts as an overlay district that increases buffering and impervious surface setbacks along wetlands and river corridors. It also increases the buffer and impervious surface setback along creeks and streams residing in water supply watersheds. Groundwater recharge areas are identified as part of this overlay district and those areas are protected from the placement of sanitary landfills and the like (refer to Forsyth County Unified Development Code, Chapter twenty-one, Overlay Districts).

The Unified Development Code protects either side of every creek or stream within Forsyth County by imposing a thirty-five foot riparian buffer (measured from the top of the bank). Ordinance 14 of Forsyth County, "Tributary Protection Code" also identifies protected areas. In particular, any stream channel and the land area extending outward 35 horizontal feet from the top of the banks of any stream, shore of any lake or the edge of any wetland, the waters of which eventually enter the Chattahoochee River at any point down stream of Buford Dam and above Peachtree Creek.

The criteria outlined in the Unified Development Code and in Ordinance 14 are imposed by Forsyth County through the rezoning process and through all permitting processes as they pertain to development. Enforcement of these provisions is accomplished through the Department of Engineering, Department of Planning & Development, and The Sheriff's Office. All Developments, irrespective of the scope of work to be done, are bound by these provisions.

**Criteria for Siting Solid Waste Facilities**

Forsyth County's Unified Development Code establishes all the zoning districts and the permitted uses that each zoning district accepts in the County. It also provides performance criteria by which structures are built and outlines allowable uses. Solid waste handling facilities fall into one of three categories in Table 14.1 of Forsyth County's Unified Development Code, Permitted Uses In Industrial And Mining Districts (chapter 14, Unified Development Code) depending on the specifics of the proposed operation. These categories are Recycling and Recovery Facilities, Solid Waste Transfer Stations or Transportation, Communication, and Utilities Facilities, except truck terminals. Planning & Development will determine which of these categories should be utilized.

The Zoning Districts that either entirely or conditionally permit solid waste handling facilities are Restricted Industrial District (M-1), Heavy Industrial District (M-2), or Mining Operations District (MINE).

Through the rezoning process there are many considerations when contemplating the compatibility of solid waste handling facilities to its surroundings. One consideration is the Future Land Use Element of the Comprehensive Land Use Plan of Forsyth County. There are designated areas within the County that can accept M-1, M-2, or MINE Districts. Other considerations accomplished through this process are Airport Safety (proximity to existing airports), Flood Plains (will existing flood plain be adversely effected, governed by the County's Watershed Assessment and Ordinance 55, Flood Damage Protection Ordinance), Wetlands (protected by Ordinance 14), Fault Areas if applicable, Seismic Impact Zones if any exist and Groundwater Recharge Areas (protected by The Part V Environmental Criteria). In addition, other considerations include impacts on roads, the uses of land in close proximity, the possibility of adversely effecting adjacent properties, required road improvements, required water line upgrades, waste water management systems and erosion control measures. These considerations are placed in a technical review document along with County Staff's recommendation for approval or denial of the proposed rezoning and forwarded to the Planning Commission and subsequently to the Board of Commissioners for their consideration. Only after a property is zoned to one of the Zoning Districts listed above can a solid waste handling facility be constructed in Forsyth County.

#### **Local Procedures for Siting Solid Waste Facilities**

As part of the rezoning process in Forsyth County a Public Participation Plan must accompany a rezoning application when submitted. This plan will illustrate to the County how the applicant will inform residents, businesses and interested parties of the use of land they propose. This plan first identifies those who will be contacted and then the manner by which the contact is made. The Public Participation Plan is reviewed by County Staff and recommendations can be made by staff to improve upon the plan. The applicant is then required to execute the plan and to prepare a Public Participation Report that will document the end result of the Public Participation Plan. The Public Participation Report is made part of Staff's Technical Review Document and forwarded to the Planning Commission and the Board of Commissioners for their consideration.

As part of the rezoning process, the Planning Commission holds a public hearing. These hearings bring even more clarity to the views and concerns of the interested public. The public participation aspect to Forsyth County's rezoning process is essential and provides valuable information needed when deciding if a use is compatible with a certain area.

What should also be noted is that through the rezoning process, other criteria will be considered when a solid waste handling facility is proposed. One is the

proposed impact upon current solid waste management infrastructure. Another is the proposed impact to collection capability and disposal capacity. Yet another is to assess the impact to the State's 25% per capita waste disposal reduction goal. This information is required to be provided by the applicant in the form of an Impact Statement as part of its rezoning application. Having this information enables Forsyth County as well as the State of Georgia to assess where we are in relationship to the goals we have set.

## NEEDS AND GOALS

*Forsyth County has a goal to insure that proposed solid waste handling facilities are located in areas suitable for such developments, are compatible with surrounding uses, and are not considered for locations in areas which have been identified by the community or region as having environmental or other development or land use limitations.*

Moving forward Forsyth County is committed to creating rules and procedures regarding solid waste handling facilities that will be reflective of its newly updated Solid Waste Management Plan.

One item that should be included, as part of new rules and procedures is a formal application process that is specific to the Solid Waste Plan. In this application process the applicant seeking to use, own and/or operate a landfill, should be required to submit an application specific to a type of landfill, such as municipal solid waste/Subtitle D, construction and demolition and/or inert. The landfills should be required to operate between certain hours of the day (e.g. 7:00am to 7:00pm). The County should also request necessary information related to the operation of the landfill. Such requested information could include the following: hours of operation, location and size of facility, capacity, materials accepted, disposal fees, private or public usage and number of employees.

**TABLE 5.1: FORSYTH COUNTY'S UNIFIED DEVELOPMENT CODE TABLE 14.1**

<b>TABLE 14.1</b> <b>PERMITTED USES IN INDUSTRIAL AND MINING DISTRICTS</b> (AMENDED 3/26/01)			
<b>P = Permitted</b> <b>C = Conditional</b> <b>X = Not Permitted</b>			
Permitted Uses	Industrial and Mining Zoning Districts		
	Restricted Industrial District (M1)	Heavy Industrial District (M2)	Mining Operations District (MINE)
Accessory uses and structures determined by the Board to be normally incidental to one or more permitted principal uses	P	P	C
Acid manufacturers	X	C	X
Adult entertainment and adult materials establishments	P (3)	P (3)	X
Ammonia, bleach, and chlorine manufacturers	X	C	X
Animal rendering and recycling plants	X	C	X
Apparel manufacturing	P	P	X
Asphalt plants	X	C	C
Automobile (truck, trailer, etc.) sales, unenclosed or enclosed, not exceeding 20 percent of the lot area	P	P	X
Automobile (truck, trailer, etc.) sales, unenclosed or enclosed, exceeding 20 percent of the lot area	X	P	X
Automobile service establishments	P	P	X
Bottling and canning plants	P	P	X
Breweries and distilleries	X	C	X
Camera and photographic equipment manufacturing	P	P	X
Cement, lime, gypsum or plaster of paris manufacturers	X	C	C
Ceramic production facilities	C	P	X
Churches, temples, synagogues, and places of worship, including cemeteries as accessory uses	(2)	(2)	X
Coal and tar products manufacturers	X	C	X
Coating of cans, coils, fabrics, vinyl, metal furniture, appliance surfaces, wire, paper, and flat wood paneling	X	C	X
Cold storage plants and frozen food lockers	C	P	X
Commercial sales of the product(s) permitted to be manufactured, assembled, or processed, unenclosed or enclosed, not to exceed twenty (20) percent of the lot area	P	P	P

Permitted Uses	Industrial and Mining Zoning Districts		
	Restricted Industrial District (M1)	Heavy Industrial District (M2)	Mining Operations District (MINE)
Commercial sales of the product(s) permitted to be extracted, unenclosed, exceeding twenty (20) percent of the lot area but not exceeding fifty (50) percent of the lot area	X	C	P
Commercial recreational facilities, indoor	P	C	X
Commercial recreational facilities, outdoor	C	C	C
Communication towers and communication antennas	C	C	C
Contractor's establishments	P	P	P
Convenience stores, with or without gasoline pumps	C	C	X
Cosmetics and toiletries manufacturers	P	P	X
Dry cleaning plants	P	P	X
Dwellings, single-family detached	X	X	X
Dwelling for caretaker or night watchman	P	P	P
Electronics assembly and manufacturing of communications equipment	P	P	X
Explosives storage	C	P	P
Exterminating and pest control businesses	P	P	X
Extraction industries – extraction and removal of sand, gravel, top soil, clay, dirt, precious metals, gems, and minerals	X	X	P
Feed, grain, and fertilizer manufacturers	X	C	X
Fuel oil distributors	P	P	X
Fiberglass insulation manufacturers	X	C	X
Food processing plants, including fish and poultry facilities	C	C	X
Hazardous waste receiving, handling, and disposal facilities	X	X	X
Ice manufacturing	P	P	X
Incinerators, including medical wastes	X	C	X
Instrument assembly and manufacturing	P	P	X
Junkyards, wrecked motor vehicle compounds, and wrecker services	C	C	C
Kennels, Animal Hospitals, Veterinary Clinics	C	X	X
Landfills	X	C	C
Linoleum manufacturers	X	C	X
Lumber yards, planing and sawmills	P	P	P
Machine shops	P	P	X

Permitted Uses	Industrial and Mining Zoning Districts		
	Restricted Industrial District (M1)	Heavy Industrial District (M2)	Mining Operations District (MINE)
Manufacturing, processing, recycling, and assembling within buildings, not otherwise specified	C	C	C
Manufacturing, processing, recycling, and assembling of chemicals, floor coverings, glass, and rubber, unless more specifically listed in this table	X	C	X
Metal products manufacturing	P	P	X
Mini-warehouses	P	P	X
Miscellaneous service establishments	P	C	X
Offices and showrooms, as a principle use or as accessory uses to one or more permitted principal uses	P	P	P
Office Commercial Multiple Story (OCMS) Zoning District uses and performance standards	C (1)	X	X
Open air businesses, subject to limitations for open storage yards as provided in this table	P	P	P
Open storage yards, not exceeding 20% of the total lot	P	P	P
Open storage yards, more than 20% but not exceeding 80% of the total lot	C	P	P
Optical goods manufacturers	P	P	X
Petroleum bulk storage sites	X	P	C
Pharmaceuticals and medical supplies manufacturers	P	P	X
Printing, blueprinting, publishing, and book binding facilities	P	P	X
Public and semi-public uses	P	P	P
Pulp mills	X	C	X
Radio and television broadcasting and cellular telephone towers	C	P	P
Recycling and recovery facilities	C	C	X
Research laboratories	C	C	C
Restaurants, not including drive-in or drive-through facilities	P	P	X
Salvage yards	C	P	X
Schools, private, parochial, vocational - technical and business	P	X	X
Service stations	P	P	X
Sign fabrication and painting shops	P	P	X
Solid waste transfer stations	C	C	C
Solvent metal cleaning	X	C	X
Stock yards and slaughterhouses	X	C	X
Temporary structures and uses, with written approval of the Board	C	C	C

Permitted Uses	Industrial and Mining Zoning Districts		
	Restricted Industrial District (M1)	Heavy Industrial District (M2)	Mining Operations District (MINE)
Textile manufacturing and processing	P	P	X
Tire retreading and recapping facilities	C	P	X
Transportation, communication, and utility facilities, except truck terminals	C	P	C
Truck terminals	P	P	P
Uses not specified in this table	(4)	(4)	(4)
Volatile organic liquid handling and storage	X	C	X
Warehouses and storage buildings	P	P	P
Wholesale trade establishments	P	P	X
Wineries	C	P	X
Wood products manufacturing	P	P	X



FIGURE 5.3: FORSYTH COUNTY FLOODPLAIN MAP

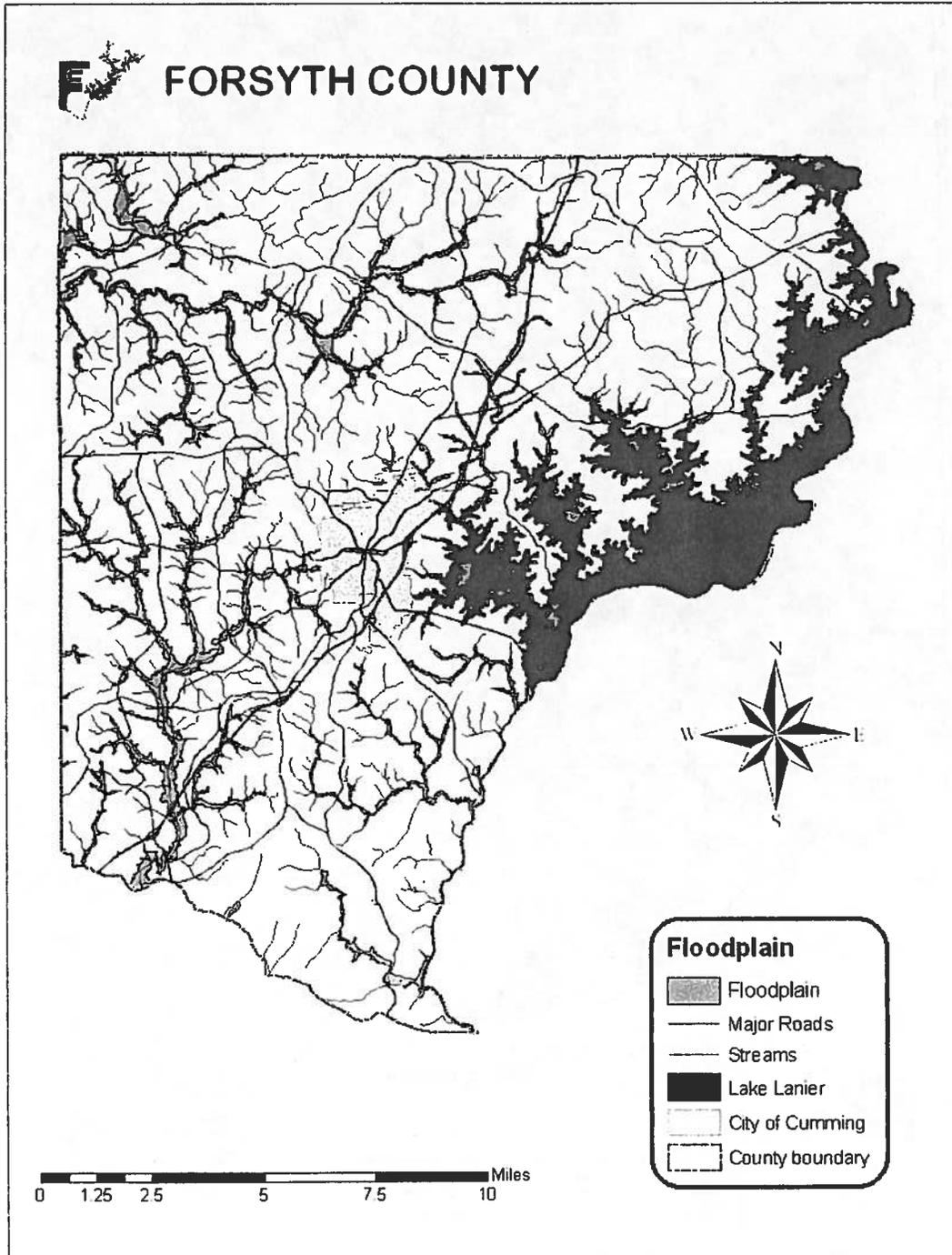
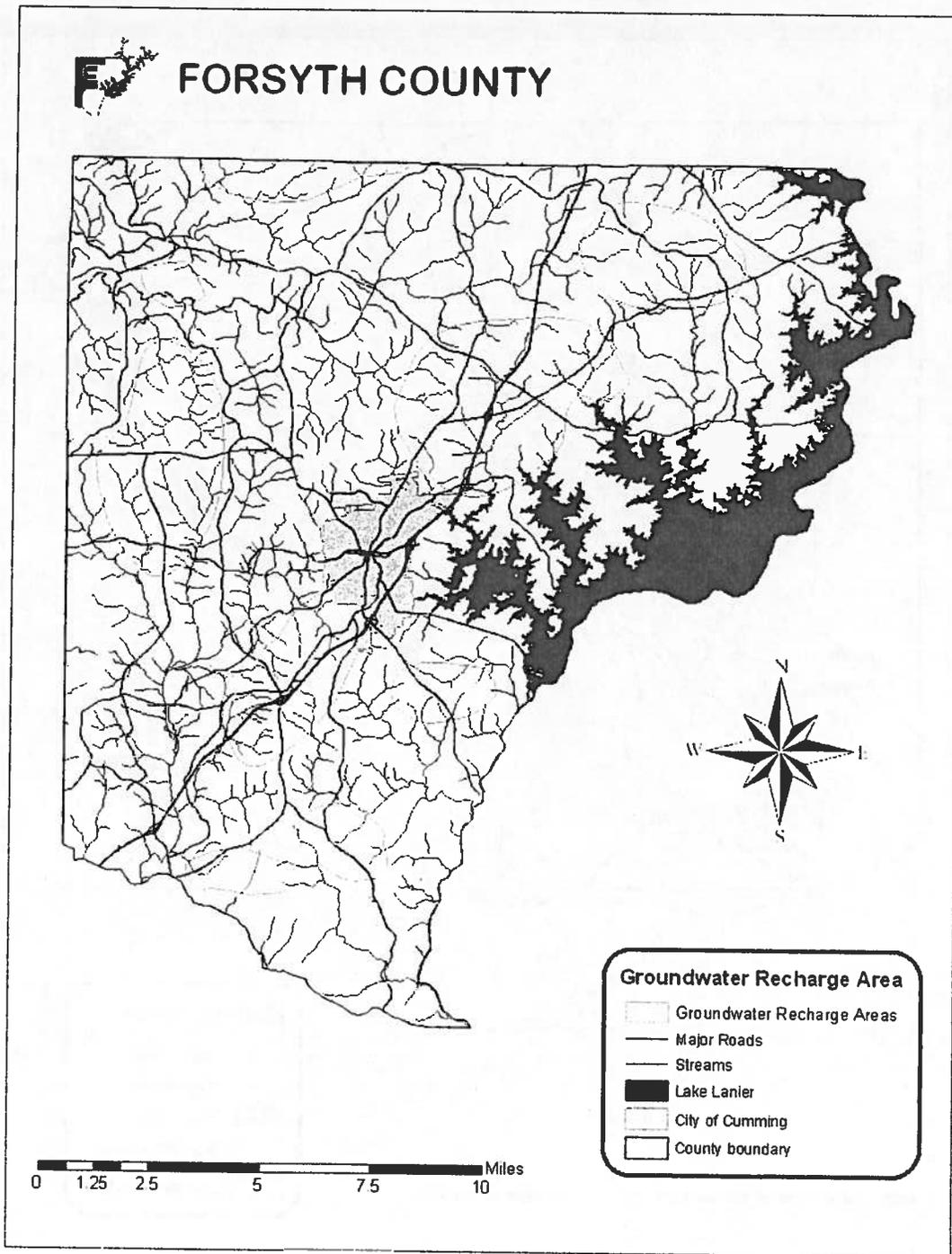


FIGURE 5.4: FORSYTH COUNTY GROUNDWATER RECHARGE MAP



**FIGURE 5.5: FORSYTH COUNTY HISTORIC SITES MAP**

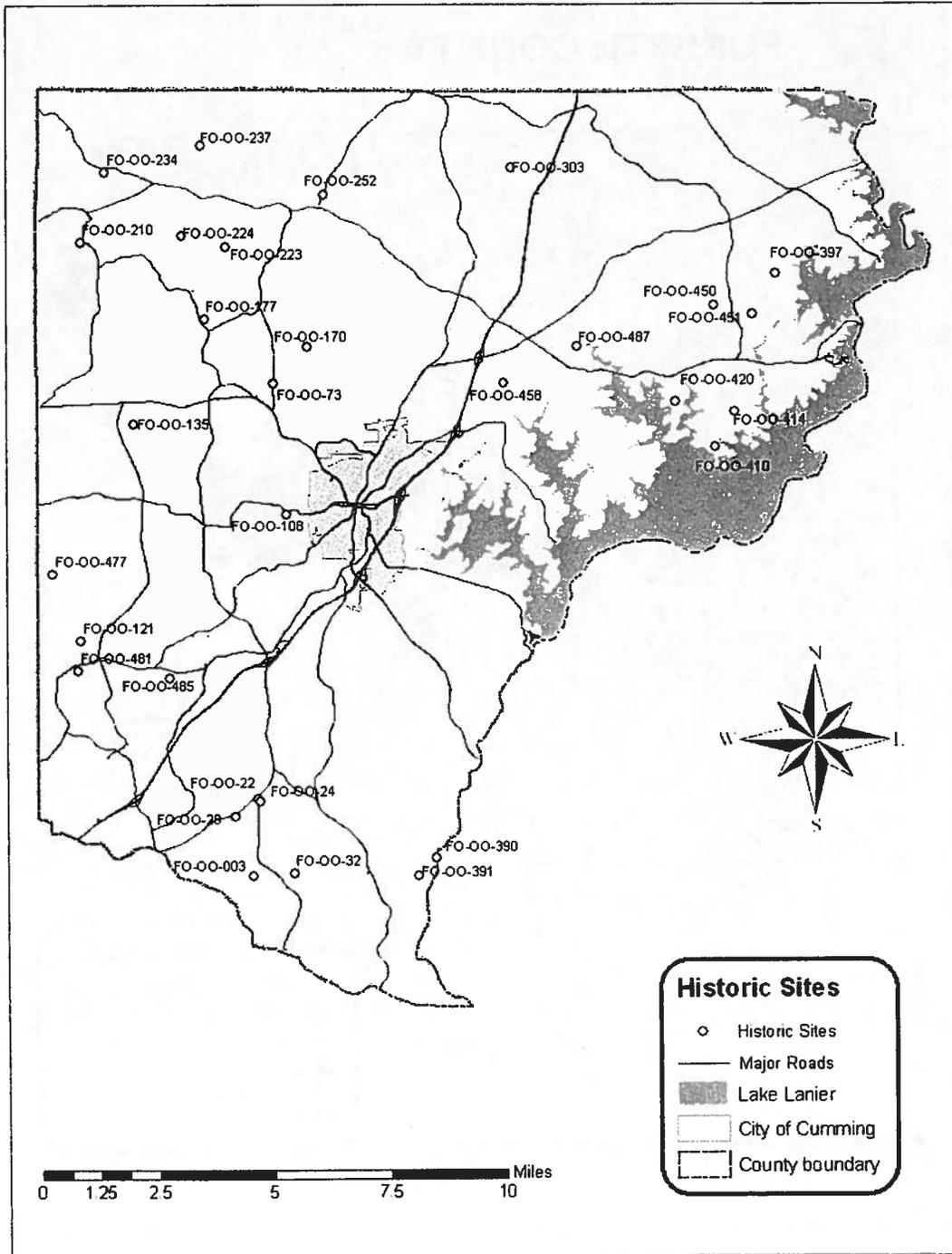
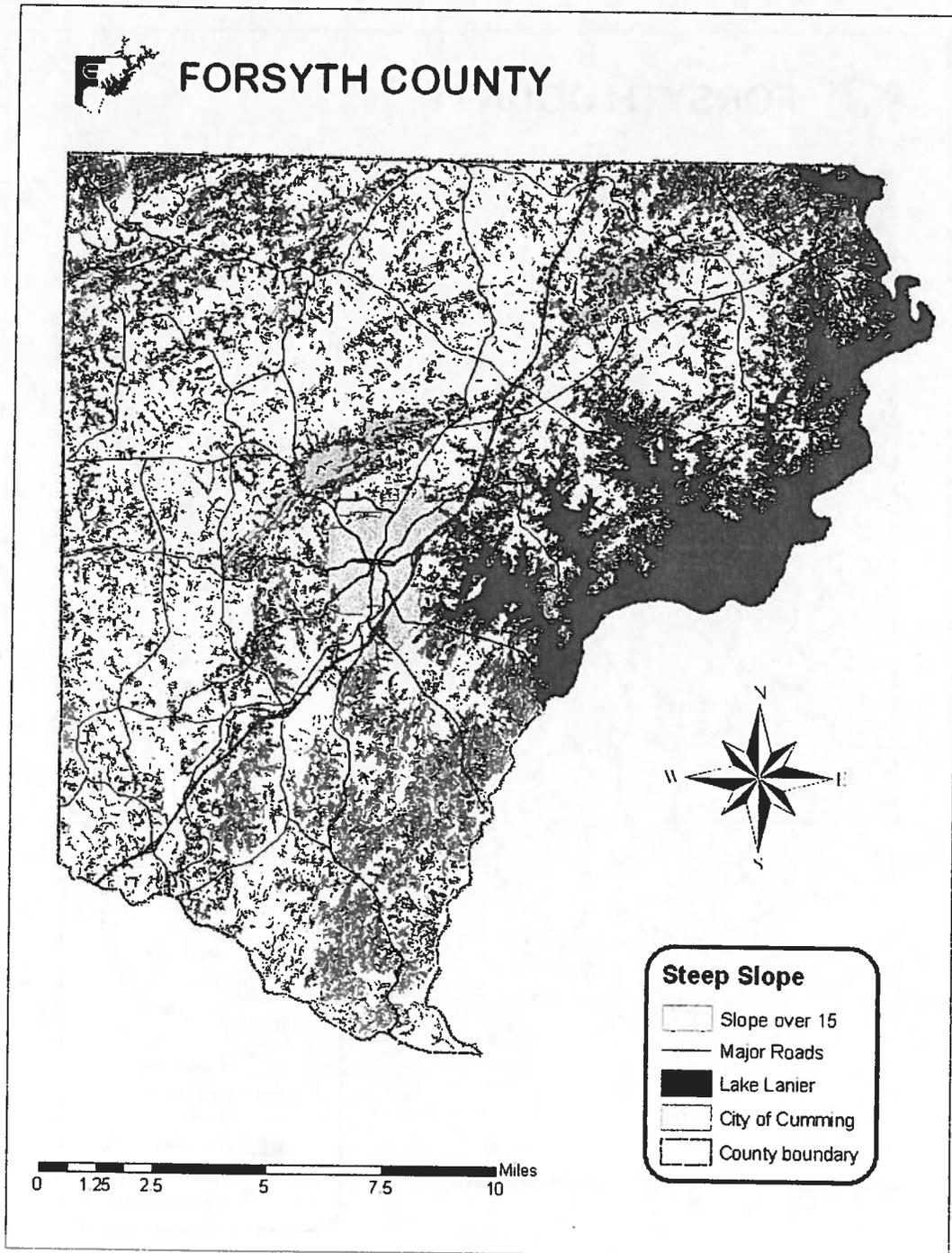


FIGURE 5.6: FORSYTH COUNTY STEEP SLOPE MAP



**FIGURE 5.7: FORSYTH COUNTY WATER SUPPLY WATERSHED MAP**

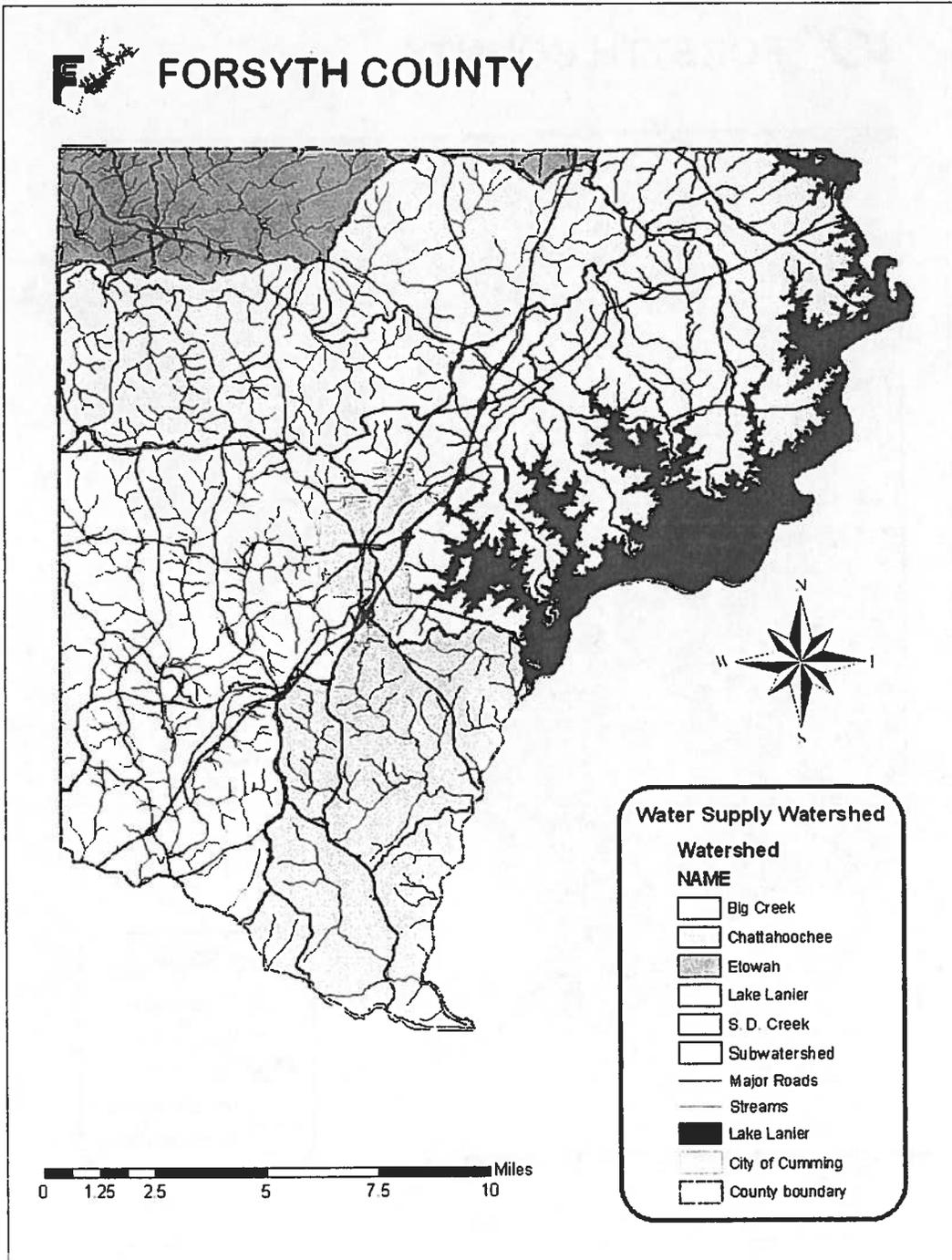
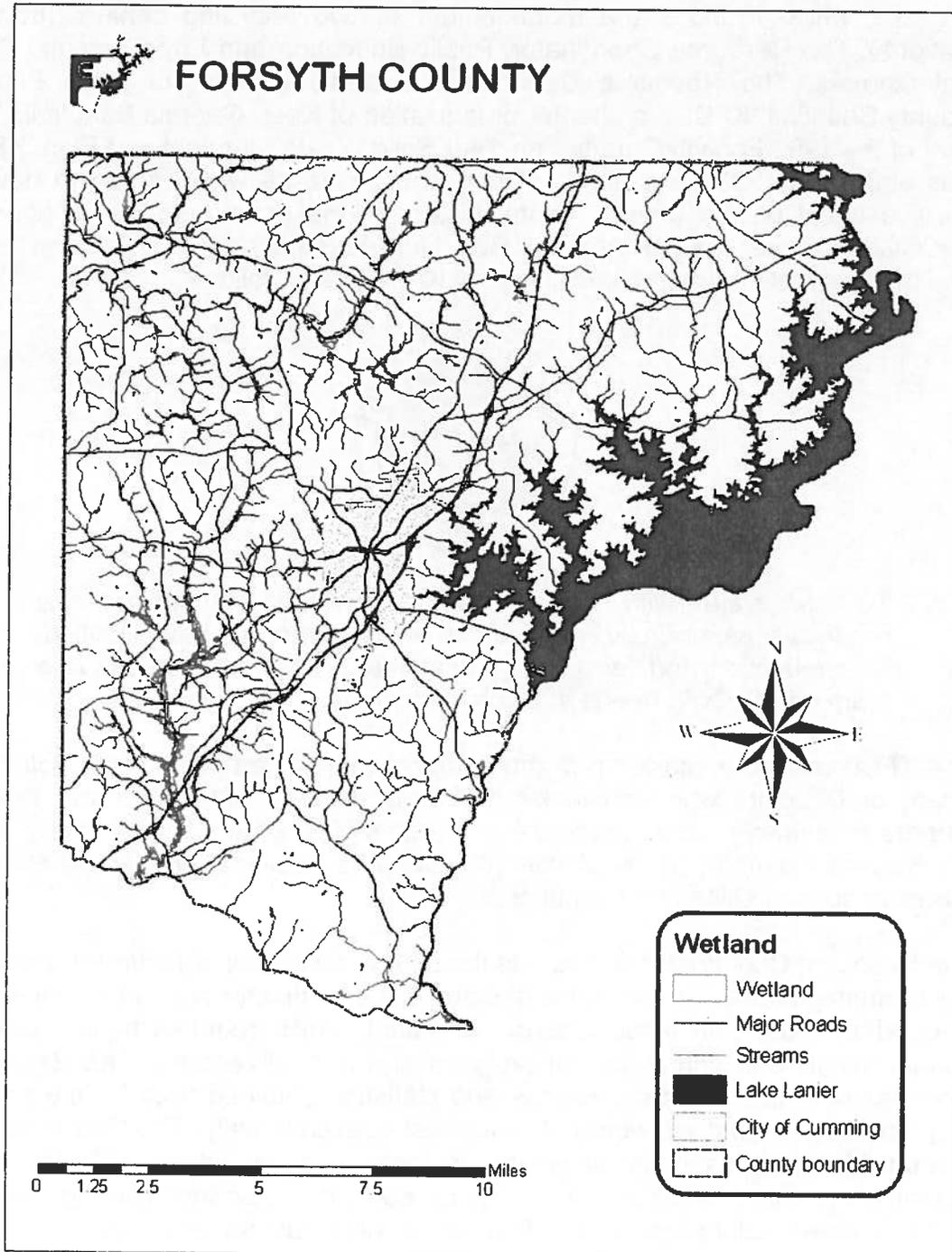


FIGURE 5.8: FORSYTH COUNTY WETLAND MAP



## EDUCATION & PUBLIC INVOLVEMENT ELEMENT    CHAPTER 6

### INVENTORY AND ASSESSMENT OF EXISTING PROGRAMS

The Forsyth County Department of Engineering oversees the Solid Waste Division, which includes the management of two recycling centers (transfer stations), The Resource Coordinator, Public Education and Environmental Code Enforcement. The Resource Coordinator acts as Director of Keep Forsyth County Beautiful (KFCB), a chapter organization of Keep Georgia Beautiful. As a goal of the 1992 Forsyth County Ten Year Solid Waste Management Plan, KFCB was started in 1993 by a group of concerned citizens who wanted to have a positive effect on the overall natural history of the county. After a rigorous certification process, Keep America Beautiful Inc. certified KFCB in June 1994. The mission statement and official logo of KFCB are as follows:



To cooperate with government, businesses, schools, civic organizations, and citizens in a joint effort to improve beautification, litter reduction and recycling. Maintaining a beautiful county is a team effort, which needs to involve everyone.

The KFCB affiliate is made up of three county maintained positions, a volunteer Board of Directors who administer KFCB as a non-profit 501c3 and several corporate sponsors and members. The KFCB Board meets every third Thursday of the month to coordinate information regarding events, memberships, business sponsorships and volunteers.

The Resource Coordinator represents the county on issues of recycling and solid waste management. As executive director, the Coordinator must maintain KFCB in good standing with Keep Georgia Beautiful, which requires participation in annual events and completion of program and annual reports. The Resource Coordinator keeps recycling records and statistics obtained from for the county recycling centers and answers public interest questions daily. The Coordinator is responsible for presenting programs to scouts, social clubs, schools, civic organization and businesses on subjects such as recycling, littering, natural history, water education and other environmental issues. The Resource Coordinator also manages the Adopt-A-Road Program.

The Forsyth County Adopt-A-Road Program is a way for county civic and non-profit organizations, businesses, subdivisions and families to become involved with litter prevention along our roadways. For anyone who chooses to join this county program an Adopt-A-Road sign representing the group's name will be placed in the vicinity of the road cleanup. Groups can choose to adopt a county road that may be located near their home or business. All groups must sign a litter cleanup contract agreement before they begin the program. The litter pick-up efforts are to be conducted quarterly and status reports on the cleanups must be submitted to Keep Forsyth County Beautiful. Forsyth County follows the rules and regulations of the state Adopt-A-Highway Program. All supplies including latex gloves, trash bags and orange vests can be obtained from the Resource Coordinator.

The Environmental Code Enforcement Officer is a county position funded by both the Georgia Environmental Protection Division Scrap Tire Grant and the county. The Environmental Code Enforcement Officer's main responsibilities include identifying illegal dumpsites, fielding public complaints on litter and proper solid waste disposal and inspecting scrap tire generating facilities, carriers and sorters. The Officer follows the rules and regulations of solid waste management set forth in County Ordinance 84. The Officer maintains a database of all cases handled, citations issues, fines levied and magistrate court cases held. As part of the agreement with the Scrap Tire Grant quarterly reports including this information must be submitted to EPD. In addition the Code Enforcement Officer works with the community to educate and inform citizens about environmental and health issues that are a result of improper solid waste disposal.

The Education Coordinator position was added to the KFCB staff in January of 2002. The Georgia Environmental Protection Division Scrap Tire Grant funds this part time position with a partial match from the county. The Education Coordinator models a schedule to that of the Forsyth County School District and is available to the schools during the seasons that they are in session. The Education Coordinator facilitates environmental education programs for county teachers and students. Among these special environmental activities offered in the classroom are programs such as Worm Composting, Nike Reuse-A-Shoe, Enviroscope Water Kits, Phone Book Recycling and Outdoor Classroom Development. Since KFCB is a Partner at Large in Education, the Education Coordinator also acts as a liaison between the Board of Education and the county through a Teach Encourage And Model (TEAM) Recycling Program that educates students about how and why to recycle in the classroom and at home.

KFCB held the first TEAM (Teach, Encourage And Model) Recycling Environmental Educator Workshop in February 2003. Recycling coordinators and parent volunteers in the county schools were invited to the event to learn about establishing and strengthening recycling programs. While attending the T.E.A.M. recycling workshop held at the Sawnee Cultural Arts Center, teachers and parents listened to guest speakers and collected environmental education

resources at display tables. The TEAM Meetings are now held at least twice during the school year.

Keep Forsyth County Beautiful maintains a Public Resource Library in the Engineering Department that allows individuals such as teachers, parents and students to sign out items that serve as environmental education tools. Resources in the library include reference books, videos, CDs, posters, kits, puzzles and brochures. Items are provided free of charge through a sign out process by the Keep Forsyth County Beautiful Staff.

While public information from KFCB is available all year round, there are several special events that are held annually to enhance volunteer participation and public awareness of environmental issues as follows:

- January – Bring One For the Chipper (Christmas Tree Recycling)
- March – Earth Day Poster Contest for County Students
- April – Great American Cleanup / Liberty Gardens / Earth Day Expo
- May – Phone Book Recycling
- May – KFCB Recognition Banquet
- July – Litter Index
- October – TEAM Recycling Workshop
- October – Rivers Alive Waterway Cleanup
- November – America Recycles Day

Articles about KFCB events are printed on the Government Page of the Forsyth County News through the county Public Information Department and additional articles are featured in the Forsyth County Herald, Forsyth County News, and local magazines. Every KFCB event and program is included on the KFCB web page (<http://www.forsythco.com/department.asp?DeptID=43>) of the Forsyth County Government website and information is updated regularly. Both county-recycling centers had an information kiosk constructed in 2003 where KFCB info and brochures are available to the public.

## NEEDS AND GOALS

*Forsyth County has a goal to help the residents of Forsyth County reach an awareness and understanding of the importance of solid waste management in terms of waste collection, waste reduction, recycling, environmental issues and conservation of natural resources.*

### **1) Keep Forsyth County Beautiful**

The establishment of the Keep Forsyth County Beautiful organization fulfills the once needed long-range plan goal to increase public awareness of environmental and solid waste issues.

Education programs targeted towards schools have proven to be successful and efforts to engage businesses and civic groups to participate in these programs have increased.

- A) Membership - A need still exists to motivate volunteers to participate in KFCB programs and membership recruitment is a top priority. Giving sponsors public recognition through event flyers, promotional materials and other special event activities can increase corporate sponsorship. Giving annual awards to those members and sponsors who participate in all KFCB activities will help to motivate others to join. With more support from the general public, KFCB can offer assistance and information to a larger audience and establish a confident reputation amongst county citizens.
- B) Education Programming – There is a great need for KFCB to have a public meeting area where residents, schools groups and other organizations can come to learn scheduled onsite programs. A possible location for such a facility would be one of the future recycling centers. An education conference room at a recycle center could compliment recycling center tours and other environmental education presentations that serve to address a larger audience. The KFCB Public Resource Library should be moved to this location.
- C) Environmental Enforcement - There is a need to enable Forsyth County residents to maintain a safe and healthy environment regarding proper waste disposal and litter prevention. It is beneficial to target and educate specific populations of the county such as homeowners, businesses and schools students. A goal of KFCB is to incorporate the Environmental Code Enforcement Officer into existing environmental education programs, especially in schools, so that the public is made more aware of the seriousness of illegal dumping and the importance of litter prevention.
- D) TEAM Recycling – Currently all of the Forsyth County schools have active newspaper and mixed paper recycling programs. A plan has been implemented to begin an aluminum can recycling program at fifteen of these schools over the next year. There is a need to have aluminum can and plastic bottle community drop off recycling receptacles at every school to allow both the schools and community to utilize the collections sites. With too few recycling centers of convenience in the county it would provide an opportunity for quick and easy recycling.

## 2) Forsyth County Government

- A) "Waste in the Workplace" – It is necessary to incorporate a strong recycling program in the county buildings (offices) with the encouragement of the Forsyth County Board of Commissioners. Having a structured and organized recycling collection program in county buildings would allow recovery of a large amount of paper products from offices. Moreover the program would set the example of recycling to the rest of the community. A Resolution of formal support from the Forsyth County Commissioners could serve to "require" county employees to recycle in the workplace. In order to accomplish the collection of such a large amount of paper from county buildings a county employee in the public buildings department would have to be responsible for the pick up and removal of paper. This may require a specific job position that could visit offices daily in order to ensure proper collection and disposal of the recycling. Additional recycling bins would have to be placed outside the county buildings for accessibility.
- B) Adopt-A-Road – Currently the AAR Program includes approximately forty (40) county roads that are maintained clean and litter free by volunteer citizens and businesses. It would be beneficial to create a digital map of these roads and areas that have high and/or low areas of litter in the county. Litter incidents are monitored to see what solid waste issues are prominent on county roads. Most volunteers stay current with quarterly cleanups and successfully report information to the Resource Coordinator. This program is in need of an event that honors volunteer work and helps to encourage the work that is being done. It is important to recognize these volunteers with annual awards at an occasion such as a picnic, banquet or field trip.
- C) Adopt-A-Stream – It is a goal of the Forsyth County Engineering Department to have several employees certified in the Georgia Adopt A Stream Program. The state program exists to increase public awareness of the state's nonpoint source pollution and water quality issues and to provide citizens with the tools and training to evaluate and protect their local waterways. Once established in the program, county employees could train citizens to adopt a county stream, wetland or lake and conduct quarterly chemical and biological monitoring tests. The citizens could then work with county employees to pinpoint any problems that may be affecting their streams.

D) Solid Waste Plan Updates – It is necessary to monitor and evaluate this ten-year plan with a strong emphasis on ongoing KFCB programs. The KFCB Board of Directors and members should provide an annual review of this plan and recommend modifications as necessary.

**TABLE 6.1: Keep America Beautiful Annual Report  
Fiscal Reporting Period: 2003**

**Affiliate Information:**

<b>Affiliate ID:</b> 95		
<b>Executive Director Name:</b> Ms. Jennifer Szabo		
<b>Title:</b> Resource Coordinator / Executive Director		
<b>Mailing Address:</b> 110 East Main Street Suite 120		
<b>City:</b> Cumming	<b>State:</b> GA	<b>Zip:</b> 30040
<b>Street Address:</b> 110 East Main Street Suite 120		
<b>City:</b> Cumming	<b>State:</b> GA	<b>Zip:</b> 30040
<b>Phone:</b> 770-205-4573	<b>Fax:</b> 770-781-2104	
<b>E-mail:</b> jaszabo@forsythco.com	<b>Web Site:</b> www.forsythco.com	

**Survey Questions:**

1. Is your affiliate involved in electronic recycling? Yes  No 
  - a. If yes, does it have a public education/awareness component? Yes  No
  - b. Is your affiliate involved in collection of used electronics? Yes  No
2. Does your community have an environmental court? Yes  No 

If yes, please provide the following information:  
 Judge/Contact Name: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Address: \_\_\_\_\_
3. Does your affiliate have an active Board of Directors/Advisory Council? Yes  No
4. Have you or someone on your staff/board attended a KAB training in the past twelve months? (For example, 48th Annual National Conference in Washington, D.C., KAB Regional Forum in Orlando, any KAB Training offered at KAB State Affiliate Meeting or Conference) Yes  No

**Funding:**

5. What is your annual operating budget? \$62198

**Volunteers:**

	<b>Litter Prevention</b>		
Total number of cleanups:	47		*****
Number of litter-free events:	2		*****
Number of attendees at litter-free events:	1932		*****
*****		Number of volunteers for cleanups:	334
		<b>Beautification</b>	
Number of trees planted:	401	Number of volunteers:	94
Number of sites where graffiti was removed or abated:	0	Number of volunteers:	0
Number of sites beautified:	10	Number of volunteers:	144
Total number of volunteers for other projects/programs: (i.e. school programs, committee work. Do not include litter-prevention and beautification volunteers listed above.)			492
		<b>Total</b>	
Total number of volunteers for all projects/programs: Total of right-hand column			1064
(Include Great American Cleanup™ volunteers. Audiences at workshops or presentations cannot be counted as volunteers.)			

**Community Education:**

Educational Opportunities	Number of Events	Attendees	Attendance
Classroom presentations/workshops:	130	Students	8847
Youth groups/club presentations:	10	Students	750
<i>Waste In Place</i> Teacher Training:	0	Teachers	0
<i>Waste: A Hidden Resource, Graffiti Hurts</i> , and <i>Get A Grip</i> Teacher Training:	0	Teachers	0
Community Outreach Presentations*:	7	Adults	755

\*Community Outreach presentations include general speaking opportunities to share information about your KAB affiliate, programs, litter and solid waste issues with adult audiences.

**COST/BENEFIT ANALYSIS**

Affiliate Name: Keep Forsyth County Beautiful

**PART #1 Dollar Value of Benefit**

1. List all projects, programs, workshops, events, etc., for the reporting period for which dollar-value benefits can be calculated.
2. Print additional copies of part #1 as needed.
3. Use the attached guidelines to calculate the dollar value of volunteer hours, donated goods, for your

- listed programs and projects.  
 4. Write the dollar value amounts under the appropriate column headings for each project.

<b>Program/Project Name (or other value-generating activity)</b>	<b>\$ Value of Volunteer Hours</b>	<b>\$ Value of Donated In-Kind Goods/Service</b>	<b>\$ Value of Cost Avoidance (if any)</b>	<b>\$ Value of Reduction in Gov't Costs (if any)</b>
Adopt A Road	1313.25	0	0	0
America Recycles Day	412	0	0	0
Bring One For The Chipper	6363.6	9030	0	0
T.E.A.M. Recycling Educator Workshop	1631.94	270	0	0
Liberty Gardens Ceremony	400.14	250	0	0
Phone Book Recycling	538.65	65	0	0
KFCB Board of Directors Participation Hours	2954.88	0	0	0
KFCB Awards Banquet	2500	0	0	0
Community Tree Planting	1452.3	0	0	0
Earth Day Expo (Pro Earth Group Event)	323.19	150	0	0
Great American Cleanup	6077	3843.5	0	0

Total Volunteer Hours \$23966.95 + Total Donated in-Kind \$13608.5 + Total Cost Avoidance \$0 + Total Reduction in Gov't Cost \$0 =  
**DOLLAR VALUE OF PROGRAM/PROJECT BENEFITS (LINE a) = \$ 37575.45**

**PART #2 Total KAB Affiliate Benefits**

Total benefits include not only the dollar value of volunteer time, donated goods but also include private, non-government monies raised through fund raising and in some instances through recycling efforts, as well as grants funding. Calculate your total cash contributions, any recycling income, and any private grants or state grants that fund special projects (not administration). The sum of lines a through d equals your total benefits.

<b>Dollar Value of Program/Project Benefits from Part #1 (Above)</b>	<b>(a)</b>	<b>\$37575.45</b>
<b>Total Private/Non-government Cash Contributions (includes fund raising income from memberships or events, donations from business, groups, individuals, etc.)</b>	<b>(b)</b>	<b>\$1913.5</b>
<b>Total Recycling Income, if any (includes any monies raised through recycling efforts which <u>directly</u> fund your KAB program)</b>	<b>(c)</b>	<b>\$0</b>
<b>Private Foundation Grants or State/Federal "special"</b>	<b>(d)</b>	<b>\$22185.98</b>

project" Grants (if any), excluding any administrative funding  
**TOTAL KAB AFFILIATE BENEFITS - Total a,b,c, and d** (e) \$61674.93

**PART #3 In-Kind Government Agency Costs**

<b>Program/Project Name (or other value-generating activity)</b>	<b>\$ In-Kind Government Agency Costs</b>
Adopt A Road	1600.56
America Recycles Day	0
Liberty Gardens Ceremony	369.36
Bring One For The Chipper	738.72
T.E.A.M. Recycling Educator Workshop	0
Phone Book Recycling	369.36
KFCB Board of Directors Participation Hours	0
KFCB Awards Banquet	307.8
Community Tree Planting	615.6
Earth Day Expo (Pro Earth Group Event)	0
Great American Cleanup	215.46

**Total of In-Kind Government Department/Agency Costs (LINE f): \$4216.86**

**PART #4 Total Cost**

Costs include the total of all monies given to your KAB affiliate from government sources such as from city or county budgets and/or their government departments or agencies as well as any portion of state grant monies which directly fund administration expenses for your affiliate. Total cost also includes the value of any in-kind government department/agency goods or services provided to your affiliate during the reporting year.

<b>Total City/County Government Dollars</b>	(g)	\$45813
<b>Total State Government Grants Which <u>Directly Fund Your Administrative/Operating Budget</u> (not special projects)</b>	(h)	\$16385
<b>Total In-Kind Government Agency Costs (carried forward from Part #3, above)</b>	(f)	\$4216.86
<b>TOTAL KAB AFFILIATE COSTS - Total of lines g,h, and f</b>	(i)	\$66414.86

**Cost/Benefit Ratio:**

Total KAB Affiliate Benefits (carried forward from Part #2, \$61674.93)

Line e)  
 Divided by (/)  
 Total KAB Affiliate Costs (carried forward from Part #4, Line  
 i)  
 EQUALS THE COST/BENEFIT RATIO

\$66414.86

0.93

**2003 Keep America Beautiful  
 Litter Index Report Form**

- 1. KAB affiliate name Keep Forsyth County Beautiful
- 2. KAB affiliate state GA
- 3. Approximate KAB affiliate population 96000
- 4. Approximate KAB affiliate size (in square miles) 250
- 5. Date(s) of Litter Index scoring July 2002
- 6. Scorers' profiles:
  - a. # of volunteers 4
  - b. # of board members 4
  - c. # of paid government employees 3
  - d. # of others 0
  - (please identify) --->
  - e. Total # of scorers: 11
- 7. Type of areas:
  - a. Political jurisdictions 2
  - b. Existing neighborhoods 0
  - c. School districts 20
  - d. Sanitation districts 0
  - e. Others 0
  - (please describe) --->

Area number:	Area score:	# of scorers:
1	1.6	5
2	1.5	5

**Affiliate Score: 1.55**

**Keep America Beautiful, Inc.  
 2003 Affiliate Program Options**

**Affiliate Name: Keep Forsyth County Beautiful**

LITTER PREVENTION	BEAUTIFICATION & COMMUNITY IMPROVEMENT	MINIMIZING THE IMPACT OF WASTE
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
GAC - cleanup component	GAC - beautification	GAC - recycling/reuse

	component	component
<input type="checkbox"/> WIP (p. 1-17, 115, 116) workshop	<input type="checkbox"/> WIP (p. 11-12) workshop	<input type="checkbox"/> WIP (p. 41-107, 115-127) workshop
<input checked="" type="checkbox"/> Litter prevention community presentation	<input type="checkbox"/> Graffiti Hurts community workshop or implementation	<input type="checkbox"/> MSW community presentation
<input type="checkbox"/> Litter prevention PSA	<input type="checkbox"/> Graffiti abatement	<input type="checkbox"/> Waste exchange
<input checked="" type="checkbox"/> Litter-free event	<input type="checkbox"/> Gateway beautification	<input type="checkbox"/> Municipal composting
<input type="checkbox"/> Adopt-a-Spot	<input checked="" type="checkbox"/> DOTs/wildflower planting	<input checked="" type="checkbox"/> Municipal recycling center/program
<input checked="" type="checkbox"/> Adopt-a-Highway	<input type="checkbox"/> Neighborhood improvement	<input checked="" type="checkbox"/> Recyclables collection (ie: ph.books/trees)
<input type="checkbox"/> Clean Builder/Business/Campus	<input checked="" type="checkbox"/> Community garden	<input type="checkbox"/> Get A Grip video outreach presentation
<input type="checkbox"/> Receptacle drives	<input checked="" type="checkbox"/> Strategic partnership (ie: Arbor Day)	<input checked="" type="checkbox"/> Close the Loop/Buy Recycled presentation or implementation
<input type="checkbox"/> Litter report cards	<input type="checkbox"/> Weed control	<input checked="" type="checkbox"/> Charge up to Recycle presentation
<input type="checkbox"/> Litter Hotline	<input type="checkbox"/> Illegal sign removal	<input type="checkbox"/> Waste in the Workplace workshop
<input type="checkbox"/> Environmental court	<input type="checkbox"/> Environmental court	<input type="checkbox"/> Illegal dump hotline
<input checked="" type="checkbox"/> Litter ordinance improvements	<input checked="" type="checkbox"/> Ordinance improvements	
<input checked="" type="checkbox"/> Enforcement program		
<input checked="" type="checkbox"/> Education		

**Other: Enviroscope Program Model**

Enforcement program

Education

**Other: Tree Planting with National Tree Trust Grant**

Environmental court

Ordinance improvements

Enforcement program

Recycling education

**Other: Worm Composting Program and Nike Reuse A Shoe Program**

**FOURTH QUARTER WASTE YEAR  
WORK PLAN PROGRAM  
2004-2013**

PLAN ELEMENT AND IMPLEMENTATION ACTIVITY	YEAR TO BE IMPLEMENTED													RESPONSIBLE PARTY	ESTIMATED COST (\$) IF ANY	FUNDING SOURCES	
	04	05	06	07	08	09	10	11	12	13							
	WASTE DISPOSAL																
Continue use of Eagle Point Landfill (private) for residents and private waste haulers	X	X	X	X	X	X	X	X	X	X	X	X	X	SWD	125 K / Year	County, Fees Collected	
Forsyth County Hightower Landfill closed in July 2002 - continue monitoring	X		X	X	X	X	X	X	X	X	X	X	X	SWD	40 K / Year	County	
<b>LAND LIMITATIONS</b>																	
Consider a new application for private entities who seek to use, own and/or operate a solid waste facility in the county	X													SWD	1 K / Year	County	
Assess and map all land areas in the county that are unsuitable for future solid waste handling facilities	X		X				X							SWD	1 K / Year	County	
<b>EDUCATION AND PUBLIC INVOLVEMENT</b>																	
Continue public education outreach programs on recycling and solid waste	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	County, State Grants
Offer public tours and educational programs at Forsyth County Recycling Centers	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	County
Increase public volunteer and sponsor participation in all KFCB programs and events	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	County
Continue to promote and improve recycling programs in all county schools	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	County
Create a mapped database of Adopt-A-Roads and their locations along city and county roads		X												Dept of Engineering	2 K	County	
Continue and expand Adopt-A-Road Program	X	X	X	X	X	X	X	X	X	X	X	X	X	KFCB / Dept. of Engineering	5 K / Year	County	

\*Unless otherwise noted, each plan element is to be developed, implemented and completed in the year specified.

FOR THE SCENARIOS WASTE 1 YEAR  
**WORK PLAN PROGRAM**  
**2004-2013**

PLAN ELEMENT AND IMPLEMENTATION ACTIVITY	YEAR TO BE IMPLEMENTED													RESPONSIBLE PARTY	ESTIMATED COST (\$) IF ANY	FUNDING SOURCES
	04	05	06	07	08	09	10	11	12	13						
	WASTE REDUCTION															
Continue recycling program at the two existing Forsyth County Recycling Centers	X	X	X	X	X	X	X	X	X	X	X	X	X	Solid Waste Division (SWD)	10 K / Year	State, County
Continue and expand seasonal collection drives of items such as Christmas trees, phone books and aluminum cans	X	X	X	X	X	X	X	X	X	X	X	X	X	SWD / KFCB	2 K / Year	County
Expand the types of materials that can be recycled at county recycling centers	X	X	X	X	X	X	X	X	X	X	X	X	X	SWD / KFCB	2 K / Year	County
Create a county waste hauler policy to require private waste haulers to report solid waste and recycling volumes	X	X	X	X	X	X	X	X	X	X	X	X	X	SWD	1 K / Year	County
Implement an annual Household Hazardous Waste Day event for the public	X	X	X	X	X	X	X	X	X	X	X	X	X	SWD	20K / Year	Grants / County
Encourage homeowner/subdivision composting and share yards	X	X	X	X	X	X	X	X	X	X	X	X	X	SWD / KFCB	1 K / Year	County

**WASTE COLLECTION**

Plan and construct a third recycling center in the north part of the county	X													SWD	150 K	County plus Host Fees
Plan and construct at least one recycling center in each commission district within the next five years, with additional sites as needed				X			X	X	X	X	X	X	X	SWD	200 K each	County plus Host Fees
Develop a county policy for private waste haulers that mandates the collection of specific recyclable materials / Update SW Ordinance 84	X									X				SWD	2 K	County
Increase Environmental Code Enforcement coverage through additional county staff					X						X			SWD	Add Positions	County, State Fees

\*Unless otherwise noted, each plan element is to be developed, implemented and completed in the year specified.

FOR THE SCORING YEAR  
**WORK PLAN PROGRAM**  
**2004-2013**

PLAN ELEMENT AND IMPLEMENTATION ACTIVITY	YEAR TO BE IMPLEMENTED													RESPONSIBLE PARTY	ESTIMATED COST (\$) IF ANY	FUNDING SOURCES		
	04	05	06	07	08	09	10	11	12	13								
	<b>EDUCATION AND PUBLIC INVOLVEMENT - continued</b>																	
Increase public awareness of illegal dumping and litter issues through the Environmental Code Enforcement Officer	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	KFCB	5 K / Year	County
Implement an Adopt-A-Stream Program (workshops), then expand on program each year		X	X	X	X	X	X	X	X	X	X	X	X	X	X	KFCB / Dept. of Engineering	5 K / Year	County
Create a county resolution of formal support to encourage all county employees to recycle in the workplace and update as needed	X				X										X	KFCB / SWD	N / A	County
Increase KFCB staff and resources in accordance with population increase / program participation									X						X	KFCB/Dept of Engineering	Add Positions	County
Consider / Construct a KFCB resource meeting room for public environmental education (to be located at one of the future county recycling centers)														X		SWD	20 K	County

\*Unless otherwise noted, each plan element is to be developed, implemented and completed in the year specified.

**2004 SOLID WASTE PLAN COMMITTEE**

**Tim Allen**

Assistant Director of Forsyth County Department of Engineering

**Andrew Black**

Manager / Owner of Olde Atlanta Recycling, LLC

**Jim Callison**

Georgia Chapter Chair of The Sierra Club

**LuAnn Chambers**

Division Manager (Lawrenceville, GA) SP Recycling Corp.

**Jeff Chance**

Director of Forsyth County Department of Planning and Development

**Rhonda O'Connor**

Special Waste Representative of Eagle Point Landfill

**Pat Plant**

Chairman of Keep Forsyth County Beautiful Board of Directors

**Sue Shelton**

Supervisor of Forsyth County Solid Waste Division

**Jennifer Szabo**

Resource Coordinator of Forsyth County Department of Engineering  
Director of Keep Forsyth County Beautiful

## **2004 SOLID WASTE PLAN MEETING DATES**

- **Tuesday, June 17, 2003 Preliminary Meeting**
- **Tuesday, July 1, 2003**
- **Monday, July 14, 2003**
- **Tuesday, August 5, 2003**
- **Thursday, August 28, 2003**
- **Tuesday, September 9, 2003**
- **Tuesday, September 16, 2003**
- **Tuesday, September 23, 2003**
- **Tuesday, September 30, 2003**
- **Tuesday, October 7, 2003**
- **Tuesday, October 14, 2003**
- **Wednesday, November 12, 2003**

## **PUBLIC HEARING ANNOUNCEMENT**

### **NOTICE OF PUBLIC HEARING**

Notice is hereby given that the Forsyth County Board of Commissioners shall conduct a Public Hearing to brief the community regarding the draft updated Ten Year Solid Waste Plan. The draft plan will be available for viewing and public comment at the Department of Engineering, Suite 120 and on the county web site at [www.Forsythco.com](http://www.Forsythco.com) Engineering Department - Division of Solid Waste. After all public comments have been taken into consideration, the final Ten Year Solid Waste Plan will be presented for approval to the Board of Commissioners. The Public Hearing will be held on January 26, 2004 at 5:00p.m. in the Forsyth County Administration Building, Commissioners Meeting Room, Second Floor located at 110 East Main Street, Suite 220, Cumming, Georgia 30040.

Stevie Mills, County Administrator

L542, 12/31, 1/7, 14,21

REMAINING CAPACITY REPORT  
 ENVIRONMENTAL PROTECTION DIVISION  
 LAND PROTECTION BRANCH  
 4244 INTERNATIONAL PARKWAY, SUITE 104  
 ATLANTA, GA 30354

For assistance call: (404) 362-2696

TABLE 8.1: EAGLE POINT LANDFILL CAPACITY

REMAINING MSW CAPACITY REPORT

Permit Holder: Federal Road, LLC

Address: 9250 Baymeadows Road, Suite 220, Jacksonville, Fl. 32256

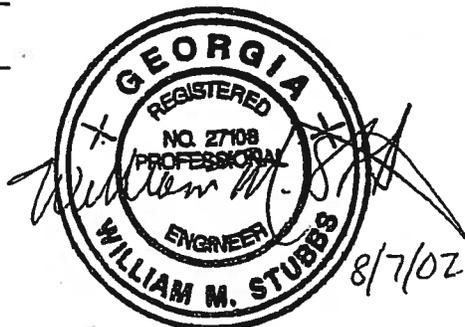
Site Name: Eagle Point Municipal Solid Waste Landfill

EPD Permit Number: 058-012D(MSWL)

		CALCULATED	
<b>I. SURVEY DATA</b>		Not Applicable	
A. Date of Topographic Survey			
B. Remaining MSW Volume (Available Fill Volume Based on Survey)		30,451,597	cy
C. Estimated Percent by Volume of Total Used by Cover Soil		8	%
D. Net Remaining MSW Waste Volume (Line B Reduced by Line C)		28,015,469	cy
<b>II. AMOUNT OF SOLID WASTE DISPOSED</b>			
E. Tons Per Day Received for Disposal		800	ton/day
F. Total Operational Days Per Year		286	days
G. Total Estimated Annual Tons Disposed		228,800	tons
<b>III. WASTE PLACEMENT</b>			
H. Estimated Waste Compaction Density		1200	lbs/cy
I. Estimated Waste Compaction Density		0.6	tons/cy
J. Net Volume Used Per Day (Line E Divided by Line I)		1,333	cy/day
K. Net Volume Used Per Year (Line G Divided by Line I)		381,333	cy/yr
<b>IV. REMAINING CAPACITY (SITE LIFE)</b>			
L. Remaining Capacity (Line D Divided by Line J)		21,017	days
M. Remaining Capacity (Line D Divided by Line K)		73.47	years
N. Estimated Date of Completion for Facility		December 19, 2075	
<b>V. ADDITIONAL INFORMATION</b>			
1. This report covers data from 04/05/02 - 06/30/02			
2. Since the site recently opened, a topographic survey was not available. Prior to the 2003 remaining capacity report submittal a topographic survey of waste in place will be conducted.			

I hereby certify the above determinations were performed under my direct supervision.

William M. Stubbs  
 Registered Professional Engineer  
 Georgia Registration No. 27108  
8/7/02



Permit Holder \_\_\_\_\_

Date \_\_\_\_\_