

JOINT SOLID WASTE MANAGEMENT
PLAN

JENKINS COUNTY
CITY OF MILLEN

TRANSMITTED DECEMBER 2004

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Introduction

The term “solid waste” includes four categories of solid waste generated in Jenkins County: municipal (this refers to solid waste in both cities and counties), construction/demolition, inert and industrial. These types of wastes vary in composition, potential environmental and health related problems, and management requirements. Although each of these will be discussed in this plan, the emphasis is on municipal solid waste in that this waste is currently presenting the most concerns and requires more stringent and expensive management efforts.

Municipal solid waste, or what we commonly refer to as “garbage” or “trash,” is more accurately defined as the combined residential and nonresidential (institutional, commercial, governmental and industrial waste which is co-managed with residential and nonresidential waste) solid waste generated and handled in a given city or county area. It does not generally include other types of solid waste such as industrial or agricultural wastes which are handled separately. Municipal solid waste includes food scraps, packaging material, yard waste, discarded appliances, used tires and other similar items. In Jenkins County, municipal solid waste is collected by public haulers and is being transported to the Jenkins County Landfill or to a public landfill located in South Carolina for proper disposal.

The concern with municipal solid waste is that, if it is not handled properly, it can cause aesthetic, health and environmental problems including diseases, air pollution from fires and contaminated water resources and unsightly litter. In addition, concern has mounted in recent years over the amount of resources being discarded and the use of expensive landfill capacity for materials which need not be placed in landfills. Consequentially, the practice of just “throwing it away” is no longer appropriate.

Georgia Comprehensive Solid Waste Management Act

In 1989, the Georgia General Assembly passed SR 103 creating the Joint Solid Waste Management Study Committee to analyze the status of solid waste management in Georgia and to make recommendations for a comprehensive revision of the 1972 Solid Waste Management Act. The Study committee labored during the summer and fall, 1989, and released its report in December of that year. The findings and recommendations in the study committee report were drafted as legislation and introduced as an administration bill in the 1990 session of the General Assembly as SB 533, the Georgia Comprehensive Solid Waste Management Act. The bill unanimously passed both houses of the General Assembly.

SB 533 (the Act) provides a sound framework for comprehensively managing solid waste. The first step in implementing the ACT has been the development of the Georgia Solid Waste Management Plan. The purpose of the State plan is essentially threefold:

1. to present a status report of solid waste management in Georgia.
2. to set forth the state strategy for reducing and managing solid waste, and

3. to establish the procedures and criteria for local/regional solid waste plans and other components of local/regional solid waste management strategy.

This document, the *Joint Jenkins County-Millen Solid Waste Management Plan*, represents the next step in the planning process and includes data in seven topic areas or “elements” that are considered critical as components of the solid waste management planning process. These seven elements are:

1. Waste Disposal Stream Analysis
2. Waste Reduction Element
3. Collection Element
4. Disposal Element
5. Land Limitation Element
6. Education and Public Involvement Element
7. Implementation Strategy

Information is gathered and analyzed for each of these seven elements. This is used in turn to set various local goals for Jenkins County. In addition to local goals, two statewide goals are required by the Comprehensive Solid Waste Management Act. These goals are as follows:

- **Goal 1** To insure that the amount of solid waste being received at disposal facilities during the coming years will be reduced by 25% per capita.
- **Goal 2** To insure that community solid waste management systems will be adequate to meet the ten-year handling capability and capacity needs identified in the local solid waste management plan.

Public Participation

As required by the minimum solid waste planning standards, two public hearings were held in Jenkins County to elicit community input as to the solid waste needs and goals of Jenkins County. The first public hearing was held prior to preparing the plan on May 24, 2004. The second hearing was held following the completion of the first draft of the plan on December 2, 2004. Comments and suggestions at both of these hearing were taken into consideration and incorporated into the plan. Finally, neighboring communities and state agencies were sent copies of the plan to review and comment on the contents of the plan.

1. Description of the County

Background

Jenkins County was created on August 17, 1905 by an act of the General Assembly. Covering 352.5 miles, with a population of 24 persons per square miles, the county has ample undeveloped land, much of it in its natural state. Jenkins occupies the eastern portion of middle Georgia and is strategically located midway between Augusta and Savannah.

Millen, the county seat and commercial center of Jenkins County, is located near the confluence of the Ogeechee River and Buckhead Creek. It lies on the northern part of Georgia’s coastal plain amid undulating terrain at an elevation of 208 feet above mean sea level.

Population

Since 1980, Jenkins County has undergone varied population change (Table P-1). Between 1980 and 2000, the county population declined by 2.8%. Total population is projected to decline further through 2015 and begin increasing by 2020 (Table P-2). Between 2000 and 2025, total population in Jenkins County will increase by approximately 0.8%, significantly lower than the state growth rate of 35.9%.

Millen’s population has declined steadily since 1980. The city’s 1980 population of 3,739 dropped to 3,528 in 1990 and 3,492 in 2000 (Table P-1). This represents a 6.6% decline for the 20-year period. Like the county, population growth in Millen through 2025 will be very limited.

Table P-1

Jenkins County and Millen Total Population, 1980-2025

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025
Jenkins Co.	8,836	8,647	8,246	8,414	8,581	8,579	8,539	8,577	8,642	8,652
Millen	3,739	3,774	3,808	3,650	3,492	3,490	3,474	3,489	3,515	3,519

Source: U.S Bureau of the Census, Woods & Poole (2002) and CSRA RDC

Table P-2

Jenkins County, Millen and Georgia Population Change, 1980-2025

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025
Jenkins Co.	N/A	-2.1%	-4.6%	6.3%	-2.1%	-0.02%	-0.5%	0.4%	0.7%	0.1%
Millen	N/A	0.9%	0.9%	-4.1%	-4.3%	-0.02%	-0.5%	0.4%	0.7%	0.1%
Georgia	N/A	8.7%	9.1%	12.5%	12.3%	6.7%	6.4%	6.3%	6.1%	6.0%

Source: U.S Bureau of the Census, Woods & Poole (2002) and CSRA RDC

Seasonal Population Changes

Jenkins County does not experience any significant seasonal changes in population. The jurisdictions are not familiar with any unique conditions or seasonal variations that will change the amount of waste projected on a seasonal basis.

Number of Households

Between 1980 and 2000, the total number of households in Jenkins County has risen 9.9%, from 2,929 to 3,186 (Table P-3). The total number of households is projected to increase by an additional 53 or 1.6% through 2025.

The number of households in Millen has declined by 21 or 1.5% between 1980 and 2000. The drop in households mirrors the rapid population loss beginning in 1990. Though 2025, an increase of only 45 households is projected. By contrast, the state household growth rate will increase by 35.9% in that same period.

Consistent with state and national trends, the average number of people within a Jenkins County or Millen household has declined over the years (Table P-4). Between 1980 and 2000, average household size declined from 2.96 to 2.63 in Jenkins County and from 2.96 to 2.55 in Millen. This trend is projected to stabilize in the future with relatively small declines in average household through 2025.

Table P-3

Jenkins County and Millen Total Households, 1980-2025

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025
Jenkins Co.	2,929	2,881	2,969	3,186	3,220	3,256	3,282	3,298	3,293	3,273
Millen	1,342	1,356	1,369	1,345	1,321	1,335	1,345	1,352	1,349	1,341

Source: U.S Bureau of the Census, Woods & Poole (2002) and CSRA RDC

Table P-4

Jenkins County and Millen Average Household Size, 1980-2025

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025
Jenkins Co.	2.96	2.95	2.74	2.71	2.63	2.59	2.56	2.56	2.58	2.59
Millen	2.96	2.85	2.75	2.65	2.55	2.51	2.48	2.42	2.44	2.45

Source: U.S Bureau of the Census, Woods & Poole (2002) and CSRA RDC

Economic Activity

Small and large firms manufacturing a variety of products represent the manufacturing sector in Millen and Jenkins County. Key Manufacturers in Jenkins County include:

- Bellcrest Homes (Mobile Homes, 650 employees)
- Jockey International (Knit Underwear, 500 employees)

- John C. Wilson Co (Fertilizer, 15 employees)
- MI Home Products (Aluminum & Vinyl Windows, 435 employees)
- Millen Fertilize (Fertilizer, 10 employees)
- Savannah River Steel Co (Fabricated Steel/Metal, 13 employees)

Dependence on manufacturing in Jenkins is evident. At 39% of total employment, the sector accounts for 23.8% more local jobs than in Burke and 15.5% more than in Screven. As a percentage of total employment, manufacturing in Jenkins is also over three times the Georgia and U.S. averages.

2. Waste Disposal Stream Analysis

Inventory of Waste Disposed

Jenkins County is a rural county with both limited industry and limited commercial activity. By far, the largest contributor to the solid waste stream in Jenkins County is the residential sector. Local officials estimate that the current county waste stream could be classified as typical household waste. This residential waste consists mainly of items typically found in what is commonly called "household garbage." These items include paper products, plastics, glass, aluminum and ferrous materials. Commercial areas are limited primarily to the incorporated areas. The composition of commercial and industrial waste consists of items such as food processing waste, cotton and fabric scraps, and wood product waste.

Waste Characterization

Preliminary analysis of waste characterization from the DCA sampling study shows the percentage of each type of material in the commercial and residential waste disposed of in an MSW landfill, shown in Table 2-2. These results suggest that 63 percent of the residential and commercial waste disposed of in Jenkins County is paper or organic material.

Table 2-2
Projected Characterization of MSW Disposed from Jenkins County¹

Material	Average
Newspaper	4.9%
Corrugated Cardboard	96%
Office	25%
Magazine/Glossy	30%
Paperboard	3.9%
Mixed (Other	
Recyclable)	3.3%
<u>Other (Non-recyclable)</u>	<u>10.0%</u>
Total Paper	37.2%
#1 PET Bottles	1.7%
#2 HDPE Bottles	1.2%
#3-#7 Bottles	0.3%
Expanded Polystyrene	1.6%
Film Plastic	8.1%

Other Rigid Plastic	3.9%
Total Plastic	16.9%
Material	Average
Clear	2.0%
Green	0.5%
Amber	1.6%
Other	0.5%
Total Glass	4.6%
Other Non-Ferrous	0.8%
Total Metal	6.6%
Yard Waste	1.5%
Wood (non-C&D)	2.1%
Food Waste	11.9%
Textiles	3.8%
Diapers	2.7%
Fines	3.3%
Other Organics	0.8%
Total Organics	26.0%
Drywall	0.2%
Wood	3.1%
Inerts	0.2%
Carpet	1.4%
Other C&D	1.0%
Total C&D	9%
Televisions	0.1%
Computers	0.1%
Other Electronics	1.3%
Tires	0.3%
HHW	0.2%
Other Inorganics	0.9%
Total Inorganics	2.8%
Total	100.0%

Based on sampling data from Georgia Waste Characterization, Fall 2003

Unique Conditions and/or Seasonal Variations

The county is not familiar with any unique conditions or seasonal variations that will change the amount of waste projected on a seasonal basis.

Waste Generating Disasters

Natural disasters strike with varying degrees of severity and pose both short- and long-term challenges to public service providers. The most severe natural disasters generate debris in quantities that can overwhelm existing solid waste management facilities or force communities to use disposal options that otherwise would not be acceptable.

Debris removal is a major component of every disaster recovery operation. Much of the debris generated from natural disasters is not hazardous. Soil, building material, and green waste, such as trees and shrubs, make up most of the volume of disaster debris. Most of this waste can be recycled into useful commodities.

Both state and local governments may enter into mutual aid agreements with other state and local governments prior to any disaster. Such an agreement could provide for either binding commitments or nonbinding intentions of support by state and local governments to assist one another in the event of a disaster. Through these agreements, communities can loan equipment and personnel with specific expertise or experience.

Preparing a disaster debris management plan in advance can pay off in the event of a natural disaster. Planning can help a community identify its debris collection, recycling, and disposal options. Although the recovery process will take a long time, perhaps even years, careful planning will prevent costly mistakes, speed recovery, and avoid creation of more waste. A plan can also save money by identifying cost-effective debris management options and sources of help, increasing control over debris management in the community, and improving administrative efficiency. The Jenkins County EMA has a disaster plan to manage disaster debris.

Projections of Waste to be Disposed

**Georgia Waste Disposal and Population
FY 1994 to FY 2003**

Year	Population	Total Waste Landfilled (millions of tons ¹)	Total Waste Landfilled (pounds/person /day)	Total Waste Disposed in MSW Landfills (Tons)	Out of State Waste ²	Total Municipal Solid Waste (pounds/person/ day)	GA MSW (pounds/person/ day)
1994	6,990,658	8.58	6.73	7,222,291	138,946	5.66	5.55
1995	7,161,485	9.54	7.30	7,634,271	149,481	5.88	5.77
1996	7,334,311	9.78	7.31	7,222,499	160,000	5.40	5.28
1997	7,503,138	9.86	7.20	7,925,222	172,150	5.79	5.66
1998	7,673,265	10.75	7.68	9,026,078	193,819	6.44	6.31
1999	7,844,792	11.43	7.98	9,382,622	453,875	6.55	6.24
2000	8,015,626	12.71	8.69	9,724,736	511,472	6.65	6.30
2001	8,186,453	13.36	8.94	10,678,980	893,651	7.15	6.55

For more information regarding Georgia's solid waste management or for a glossary of terms used in this report, contact the Georgia Department of Community Affairs, Office of Environmental Management at 404-679-4940, or online at www.dca.state.ga.us/environmental/swar.html during FY 2003.

² Virtually all out-of-state waste is MSW.

Jenkins County is rural in nature. The city and county's solid waste, total tonnage for the past three years is as follows:

Community	Total Tonnage		
	2003	2002	2001
Jenkins/Millen	14063.28	8435.32	8009.64

Source: Georgia Dept. of Natural Resources' Environmental Protection Division

*Millen's information is included in Jenkins County's data.

For reference purposes, the City of Millen reported that it disposed of 1,265 tons of municipal solid waste in 2003.

The county’s total population in 2001, 2002, and 2003 was 8,567, 8,573, and 8,565 respectively. This equates to an average of 2,373 pounds of municipal solid waste generated per person in Jenkins County per year, or 6.5 pounds of municipal solid waste per person per day in Jenkins County. Using 6.5 pounds per person as an estimate of future solid waste generation in the county, the following table outlines the county’s solid waste disposal needs through 2014:

**Table 2-3
Waste Disposal Projections at Current Per Capita Disposal Rate
Jenkins County (including all cities)**

Estimated Per Capita Disposed	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Population	8,579	8,587	8,570	8,555	8,544	8,539	8,536	8,549	8,555	8,561
Pounds/Day	55,796	55,848	55,738	55,640	55,568	55,536	55,516	55,601	55,640	55,679
Total Tons/Yr	10,183	10,192	10,172	10,154	10,141	10,135	10,132	10,147	10,154	10,161

Population Source: Woods and Poole Economics, Inc.

As the above table notes, the total waste disposal needs of the entire county is not expected to rise substantially during the next ten years. The county’s population growth will not substantially increase during the planning period, and the county does not anticipate significant changes in its per capita disposal rates during the planning period.

3. Waste Reduction Element

Inventory of Waste Reduction Programs

This section provides detailed information on Jenkins County’s existing waste reduction programs that target the residential, commercial/institutional, industrial, construction and demolition, and yard trimming sectors and waste streams.

Source Reduction Programs

Jenkins County and its municipalities do not operate any source reduction programs other than providing two drop-off locations for the recycling of cardboard, paper, and aluminum cans.

Recycling

Jenco Industries, a subsidiary of The Ogeechee Behavioral Center, provides opportunities for the recycling of cardboard, aluminum, and newspaper. There are two drop-off locations, one located

in downtown Millen and the other located outside of Jenco Industries. Jenco Industries also travels to local businesses and collects cardboard and will pick up paper or aluminum cans if requested. Some businesses drop off their cardboard and other recyclables at the drop-off locations. Once the recyclables are collected, the items are baled and transported to an Augusta recycling center that in turn pays Jenco Industries for the bales. The County purchased the baler many years ago for Jenco, as the money that is collected from selling the bales is paid to the people who collect the recyclables and work on the baler. These people are part of the Ogeechee Behavioral Center and suffer from developmental disabilities. Citizens are encouraged to take their recyclables to these locations.

Jurisdiction	Recyclable Accepted	Facility Type	Type of Consumer
Jenkins County (unincorporated)	Cardboard, aluminum, newspaper	Jenco Drop-off Sites	All County Residents
Millen	Cardboard, aluminum, newspaper	Jenco Drop-off Sites	All City Residents

Yard Trimmings Programs and Facilities

The City of Millen provides curbside pickup of leaves, limbs, and other yard debris for its residents and takes the debris to the county inert landfill. The county does not provide such service.

Items Requiring Special Handling

The county currently does not have an implementation plan for the handling of items requiring special handling. The county discourages the disposal of such items at the green box collection sites.

Assessment of Waste Reduction Programs

There are two drop-off sites available in Jenkins County where recyclables can be taken. The sites are maintained by Jenco Industries. At the sites, aluminum, paper, and cardboard are dropped and Jenco Industries collects and processes the recyclables on a regular basis. Since Jenco is a part of the Ogeechee Behavioral Center, the program benefits over 37 developmentally disabled participants. This service arrangement is a positive partnership benefiting the county and the Ogeechee Center through recycling.

Needs and Goals

Based on the inventory and assessment, adequacy of current programs and other programmatic options, including costs, Jenkins County’s goal is to pursue the State’s 25% reduction in the amount of solid waste received at disposal facilities. The following activities will help reach that goal:

- Increase education and awareness of recycling programs and opportunities for paper and organic waste materials; and
- Continually improve waste reduction programs for the next 10 years; and

- Begin to participate in the Earth 911 project to educate the public about recycling programs within the state and surrounding area; and
- Consider developing a regional Keep Georgia Beautiful campaign;
- Work with the State’s Recycling Coordinator to identify viable recycling projects in the county in coming years.
- Consider developing a regional recycling program; and
- Consider developing a county-wide mulching operation to reduce yard trimmings going into the inert landfill and MSW landfill.

4. Collection Element

Inventory of Existing Collection Programs

Jenkins County provides green box drop-off locations for residential solid waste. There are 75 green box locations throughout the county. The county hauls its municipal solid waste to the Jenkins County Transfer Station and then to a solid waste facility located in Ridgeland, South Carolina. Utilizing city employees, the City of Millen provides curbside pickup of municipal solid waste for its residents and green box dumpster locations for commercial businesses. Millen offers 65 green boxes at 35 sites in the city. The table below provides more detailed information:

**Table 5-11
Haulers Operating in Planning Area**

Hauler Name	Sector Served	Jurisdiction(s) Served	Arrangement
Jenkins County	Residents from the unincorporated areas	Jenkins County	N/A
City of Millen	Residential and Commercial	City of Millen	N/A

Inventory of Collection Programs

Type	Collector	Program Description	Jurisdictions Served	Sectors Served ¹	Number of Households served	Contractual Arrangements
Green Box Drop-off sites	Jenkins County	Green Box Sites	Unincorporated Areas	R	3,220	Drop off is available to all county residents
Curbside Pickup	City of Millen	Curbside Pickup	City of Millen Incorporated Area	R	1,321	N/A
Green Box Drop-off sites	City of Millen	Green Box Sites	City of Millen Incorporated Area	C	N/A	Green Boxes are located in close proximity to area businesses

¹ R= Residential, I=Institutional, C= Commercial, CDr C&D

Contingency Strategy

In the event of a natural disaster or other major event that would disrupt the collection of solid waste within the county, the County would open up the areas around the greenbox collection sites where residents may haul and drop-off excess waste. When the additional waste is capable of being processed and/or hauled away, it will be processed in accordance with existing processing guidelines.

Assessment of Collection Programs

Because of the scattered population of Jenkins County, the collection programs are currently sufficient to meet the needs of residents and businesses. Because the County is relatively rural, at-the-source county wide collection is not a priority at this time. The more populated areas may receive curbside collection, but not in the near future. The City's collection program is working well and does not necessitate a change at the current time.

Inventory of Illegal Dumping/Littering

Jenkins County (unincorporated)

Jenkins County does not provide curbside collection of yard waste and does not offer a place for collection at the greenbox sites. County residents must burn their yard waste, deposit it in the greenboxes, or put it in the woods. There are residents who do take their yard waste to the county inert landfill. As in many rural areas, litter and illegal dumping is a slight problem because of pick-up truck loads not being covered and because of restless residents having to travel to greenboxes to unload their trash. The county has numerous greenboxes spread throughout the county and does allow burning, so littering and illegal dumping are not huge problems in the county.

Millen

Illegal dumping and littering is not a huge problem in the city of Millen since the city does provide curbside collection of household garbage and yard waste. There may be some people illegally using the business greenboxes for disposal, but that is not a problem either.

Assessment of Programs to Address Illegal Disposal

For both the city and the unincorporated county, there are no programs to address illegal disposal or littering at this time. Neither jurisdiction has found it to be a problem that needs to be addressed. Participation in education and awareness programs could help to heighten people's awareness and responsibility to the issue and reduce illegal disposal and dumping.

Needs and Goals

Jenkins County's goal for collection is to ensure efficient and effective collection of solid waste in the region over the next ten years.

- The jurisdictions will continue to maintain and purchase solid waste equipment needed to properly operate solid waste collection efforts.
- The jurisdictions will continue to identify viable collection efforts and implement efficiency programs when feasible.
- The jurisdictions will evaluate collection efforts periodically to determine if changes are needed or if new collection mechanisms are feasible.
- Research existing green box system and determine if changes are needed.
- Consider collecting yard trimmings or even providing an area for yard trimmings drop off.
- Encourage residents to cover their loads.

5. Disposal Element

Inventory of Solid Waste Disposal Facilities

The county's municipal solid waste landfill under permit number 082-005D(SL) is currently under closure and is not in use. The county does operate an active C&D landfill at the same location under the same permit number. As of 2003, the estimated remaining capacity of the landfill was 811,824.00 cubic yards. The landfill has an estimated useful life through April, 2034. The City of Millen does not operate any landfills.

Jenkins County also operates one (1) inert landfill. This landfill is located on County Road 54 and is operated under permit number PBR-082-01TS. The inert landfill is currently operational. The City does not operate an inert landfill. At this time, no other inert landfills are operational within the county.

There are currently two (2) closed public landfills in Jenkins County. One is a sanitary landfill located on Old Louisville Road and was operated under permit number 082-002D(SL). The other was a landfill located off of US Highway 25 near Millen and operated under permit number 082-003D(L). Finally, one sanitary landfill is currently in-closure. This landfill is located off of County Road 54 near Millen and is operated under permit number 082-004D(SL).

There is currently one Solid Waste Transfer Station in Jenkins County. All waste picked up by the City and collected in greenboxes by the city and county is disposed of at the transfer station. The waste is then hauled to the Hickory Hill Landfill in Ridgeland, South Carolina.

In addition to the landfill data identified above, the following tables outline nearby solid waste facilities in surrounding communities.

Nearby Transfer Stations

County	Facility Name	Permit Number	Operation Status	Facility Type Description	Facility Address	City
MCDUFFIE	CITY OF THOMSON TRANSFER STATION	PBR-097-04TS	Operating	Transfer Station	HWY 278	THOMSON
MCDUFFIE	GEORGIA DISPOSAL AND RECYCLING, INC. TRANSFER STATION	PBR-097-06TS	Operating	Transfer Station	148 INDUSTRIAL RD. N.E.	THOMSON
MCDUFFIE	MCDUFFIE COUNTY TRANSFER STATION	PBR-097-08TS	Operating	Transfer Station	MESENA ROAD	THOMSON
BURKE	SUNBELT MEDICAL SERVICES, INC. TRANSFER STATION	PBR-017-03TS	Operating	Transfer Station	P.O. BOX 215, 615 VESTAL ROAD	SARDIS
BURKE	BURKE COUNTY	PBR-017-05TS	Operating	Transfer Station	602 LIBERTY STREET, P.O. BOX 89	WAYNESBORO
RICHMOND	ARROW GARBAGE SERVICE , TRANSFER WASTE MGT.OF NO.	PBR-121-008TS	Operating	Transfer Station	FRONAGE ROAD	AUGUSTA
RICHMOND	AUGUSTA-AIKEN TRANSFER STATION	PBR-121-016TS	Operating	Transfer Station	GOSHEN INDUSTRIAL BOULEVARD	AUGUSTA
RICHMOND	SAFETY DISPOSAL SYSTEMS OF GEORGIA, INC.	PBR-121-019TS	Operating	Transfer Station	3105 I-1 SPRING GROVE DRIVE	AUGUSTA
RICHMOND	WASTE MANAGEMENT OF AUGUSTA TRANSFER STATION	PBR-121-137TS	Operating	Transfer Station	3946 GOSHEN INDUSTRIAL BOULEVARD	AUGUSTA

Source: Georgia Department of Natural Resources' Environmental Protection Division

Nearby Inert Landfills

County	Facility Name	Permit Number	Operation Status	Facility Type Description	Facility Address	City
BURKE	BURKE COUNTY INERT LANDFILL	PBR-017-01IL	Operating	Inert Landfill	CLARKE ROAD ADJACENT TO EXISTING MSW LANDFILL	WAYNESBORO
BURKE	DNR WILDLIFE RESOURCE DIV. GAME MGT INERT LANDFILL	PBR-017-04IL	Operating	Inert Landfill	DI-LANE PLANTATION	WAYNESBORO
COLUMBIA	SAMPLE & SON, INC. SR232 INERT LF	PBR-036-01IL	Operating	Inert Landfill	COLUMIA RD SR 232 25 MILES EAST OF US-221 SR 47	APPLING
COLUMBIA	STEVE DUFFIE-HEREFORD RD. INERT LF	PBR-036-02IL	Operating	Inert Landfill	HEREFORD ROAD	EVANS
COLUMBIA	GUS DUNN	PBR-036-03IL	Operating	Inert Landfill	WASHINGTON ROAD	APPLING
COLUMBIA	CITY OF HARLEM INERT LANDFILL	PBR-036-05IL	Operating	Inert Landfill	LAMPKIN ROAD	HARLEM
COLUMBIA	HERSCHEL MORRIS INERT LANDFILL	PBR-036-06IL	Operating	Inert Landfill	MORRIS ROAD	GROVETOWN
COLUMBIA	COLUMBIA CO. ROADS AND BRIDGES INERT LANDFILL	PBR-036-08IL	Operating	Inert Landfill	LEWISTON ROAD AND I-20	APPLING

County	Facility Name	Permit Number	Operation Status	Facility Type Description	Facility Address	City
COLUMBIA	CITY OF GROVETOWN INERT LANDFILL	PBR-036-081L-A	Operating	Inert Landfill	NEWMANTOWN ROAD	GROVETOWN
COLUMBIA	TONY MUNDY INERT LANDFILL	PBR-036-091L	Operating	Inert Landfill	729 BYRD DRIVE	HARLEM
COLUMBIA	COLUMBIA COUNTY ROADS AND BRIDGES INERT LANDFILL	PBR-036-121L	Operating	Inert Landfill	NORTH SIDE OF COLLINS DRIVE	EVANS
MCDUFFIE	INTERSTATE EQUIP.CO.,INC.-INERT LF	PBR-097-011L	Operating	Inert Landfill		THOMSON
MCDUFFIE	MCDUFFIE COUNTY INERT LANDFILL	PBR-097-071L	Operating	Inert Landfill	MESENA ROAD	THOMSON
MCDUFFIE	THOMAS D. GANTT, JR. INERT LANDFILL	PBR-097-091L	Operating	Inert Landfill	I-20 AND SR17	THOMSON
MCDUFFIE	MCDUFFIE COUNTY BOARD OF COMMISSIONERS INERT LANDFILL	PBR-097-101L	Operating	Inert Landfill	MESENA ROAD	THOMSON
MCDUFFIE	CSR/KNOX-RIUERS CONSTRUCTION COMPANY	PBR-097-111L	Operating	Inert Landfill	WRIGHTSBORO ROAD & CR 21	THOMSON

Source: Georgia Department of Natural Resources' Environmental Protection Division

Additionally, there are currently 20 inert landfills operating in Richmond County.

Nearby Solid Waste Disposal Facilities

County	Facility Name	Permit Number	Operation Status	Dominion	Facility Type Description	Facility Address	City
COLUMBIA	COLUMBIA CO-BAKER PLACE RD (SL), PH 2	036-010D(SL)	Operating	PUBLIC	Municipal Solid Waste Landfill	baker place rd 8 mi se	Appling
COLUMBIA	COLUMBIA CO-SAMPLE & SON (C AND D)	036-017D(C&D)	Operating	Private Commercial	Construction and Demolition Landfill	SR 232 3 miles east of SR 47	Appling
RICHMOND	US ARMY-FT GORDON GIBSON RD PH 1-3 (SL)	121-014D(SL)	Operating	PUBLIC	Construction and Demolition Landfill	FT Gordon, 3 mi se	Grovetown
RICHMOND	RICHMOND CO-DEANS BRIDGE RD PH 2C (SL)	121-016D(SL)	Operating	PUBLIC	Municipal Solid Waste Landfill	w of dean bridge rd	Augusta
WASHINGTON	WASHINGTON CO-KAOLIN RD S #3 (SL)	150-010D(MSWL)	Operating	PUBLIC	Municipal Solid Waste Landfill	kaoln rd 4 mi SW	Sandersville
BURKE	BURKE CO-CLARKE RD (SL)	017-002D(SL)	Operating	PUBLIC	Construction and Demolition Landfill	4 mi se Waynesboro	Waynesboro

Source: Georgia Department of Natural Resources' Environmental Protection Division

Remaining Capacities:

County	Facility Name	Permit Number	Dominion	Reporting Year	Remaining Capacity(CY)	Millenage Daily Tons	Rate of Fill(CYD)	Estimated Fill Date
RICHMOND	US ARMY-FT GORDON GIBSON RD PH 1-3 (SL)	121-014D(SL)	PUBLIC	2003	173,911.00	38.00	76.00	5/27/2018
RICHMOND	RICHMOND CO-DEANS BRIDGE RD PH 2C (SL)	121-016D(SL)	PUBLIC	2003	781,863.00	609.00	812.00	7/7/2006
WASHINGTON	WASHINGTON CO-KAOLIN RD S #3 (SL)	150-010D(MSWL)	PUBLIC	2003	1,161,004.00	58.00	262.00	6/3/2020
WASHINGTON	WASHINGTON CO-KAOLIN RD S #3 (SL)	150-010D(MSWL)	PUBLIC	2003	92,822.00	32.00	93.00	3/20/2007
COLUMBIA	COLUMBIA CO-SAMPLE & SON C AND D)	036-017D(C&D)	Private Commercial	2003	1,567,104.00	215.00	326.00	8/27/2018

Source: Georgia Department of Natural Resources' Environmental Protection Division

Assurance of 10-Year Capacity

The population of Jenkins County is expected to experience very little growth so it is reasonable to assume that the County's current disposal programs and operations should be adequate for meeting the County's needs during the 10-year planning period. The county and city currently send their waste to the Hickory Hill Landfill in Ridgeland, South Carolina and do not dispose of waste in the State of Georgia. The capacity of the landfill in South Carolina will be adequate for Jenkins County to dispose of their municipal solid waste there for the entire 10-year planning period. If the county did not dispose of waste in South Carolina, the landfill in Jenkins County has adequate capacity for the ten year planning period.

Contingency Strategy

In the event of a natural disaster or other major event that would disrupt disposal efforts, each jurisdiction would direct waste to nearby landfills. Negotiation of such mutual agreements will need to be initiated in the near future to ensure that such an arrangement is in place. It is estimated that it would take approximately three to five days to implement an alternate disposal strategy.

Assessment of Disposal

The population of Jenkins County is expected to experience very little growth so it is reasonable to assume that the County's current disposal programs and operations should be adequate for meeting the County's needs during the 10-year planning period.

The county operates a Subtitle D municipal solid waste landfill under permit number 081-011D(MSWL). The landfill is located on County Road 138 west of US Highway 1 just east of the City of Louisville. The county's landfill only accepts municipal solid waste generated within the county. In 2003, the landfill reported receiving approximately 52 tons of municipal solid waste each day and a remaining capacity for 1,466,280.00 cubic yards of municipal solid waste. Based on a rate of fill of 103.00 cubic yards per day, the landfill's estimated useful life is expected to extend through April, 2055.

The estimated useful life of the existing landfill extends well past the planning period for this report, and the county does not anticipate any substantial changes during the planning period that would impact each community's ability to dispose of locally generated municipal solid waste.

Statement of Needs and Goals

Jenkins County's goal is to ensure that disposal facilities in the region meet regulatory requirements and can continue to support and facilitate effective solid waste handling programs for the next ten years.

- Continue monitoring of phase I closure of the Jenkins County MSW landfill.

6. Education and Public Involvement Element

Inventory of Public Education and Involvement

Introduction

The purpose of this element of the plan is to provide an inventory and assessment of existing educational programs and public involvement alternatives available in Jenkins County. Some of the items to be discussed are:

- **Local Government Programs**
- **Solid Waste Advisory Committee**
- **Clean and Beautiful Program**
- **School System Programs**
- **Litter Control Programs**
- **RDC Programs**
- **Civic, Environmental, Church Group Programs**

Existing Programs

There are currently no active programs in place in Jenkins County for the purpose of public education or public involvement in the field of solid waste management. This plan and the goals that are a result of this plan will be the first step in implementing such a program. As noted above, the county does offer recycling opportunities at the Ogeechee Behavioral Center.

Assessment

As Jenkins County implements its waste reduction strategies over the next few years, public education and involvement will play a key role in the success or failure of these strategies. In order for the county to meet its reduction goals, it must implement some of the above listed programs. The current lack of public involvement is a hindrance that must be corrected. Participation in a Clean and Beautiful Program or implementation of local school and civic programs will not only be educational, but also provide opportunities for local citizens to participate in County reduction programs. Notice of recycling opportunities is primarily done through word-of-mouth, but awareness and education of recycling opportunities in the county need to be increased. Additional recycling drop-off centers should be included at the greenbox sites.

Assessment of Public Education and Involvement

Because Jenkins County is rural, its public education and involvement program is less extensive. Public education, to a great extent is a “word of mouth” process. The County could benefit from some of the public education resources available in the region and the State. “Word of mouth” education is a means by which each individual citizen can assist in the educational process in

Jenkins County and its cities and is strongly encouraged, but more formal programs such as Earth 911, Keep Georgia Beautiful, or other recycling events would help to educate citizens and get them more involved in community activities. The recycling programs at the Ogeechee Behavioral Center should also be promoted and marketed more around the county, to both encourage recycling and to assist the agency in its mission.

Statement of Needs and Goals

Jenkins County's goal with regard to public education and involvement is to ensure that residents and businesses in the region understand the issues, needs, and goals of the solid waste management system. The community will work to develop recycling programs throughout the coming years to educate the public about the necessity for recycling and the benefits thereof.

- Develop public education and awareness outreach programs on recycling and solid waste;
- Begin to participate in the Earth 911 project to educate the public about recycling programs within the state and surrounding area; and
- Consider starting a regional Keep Georgia Beautiful Campaign which will encourage public involvement and increase public education opportunities; and
- Participate in ACCG and GMA's programs designed to give local officials the opportunity to record public service announcements about environmental issues; and
- Provide DCA recycling education and awareness brochures in city hall and the county offices;
- Work with the State's Recycling Coordinator to identify viable recycling projects in the county in coming years.

7. Land Limitation Element

Maps for many of these criteria can be found within this document.

Inventory of Land Areas

Flood Prone Areas

Flooding is defined as the temporary covering of soil with water from overflowing stream and by run-off from adjacent slopes. Water left standing after a rainfall, however is not considered flooding, nor is water in swamps. Flooding is characterized in terms which describe the frequency and duration of the flood and the time of the year that the flood occurs.

Development within floodplain areas is discouraged with the exception of very low impact such as recreational facilities (i.e. trails, open fields, etc.). With this type of land use, the floodplains are utilized without disturbing the natural cycles of the floodplain. These areas **are not** suitable for solid waste facilities.

Floodplains serve three (3) major purposes: Natural water storage and conveyance, water quality maintenance and groundwater recharge. These three purposes are greatly inhibited when floodplains are misused or abused through improper and unsuitable land development. For example, if floodplains are filled in order to construct a building, then valuable water storage areas and recharge areas are lost thus causing unnecessary flooding in previously dry areas.

The City of Millen and Jenkins County currently participate in the National Flood Insurance Program. This is a federal program which allows property owners within the participating area to purchase federally backed flood insurance. The Federal Emergency Management Agency (FEMA) has mapped flood prone areas of Jenkins County based on the 100-year floodplain. This is the national standard on which flood management and NFIP insurance requirements are based. These maps are available to the public through FEMA.

Assessment

No solid waste facility in Jenkins County, existing or planned, lies or may lie within, an area designated as the 100-year flood plain.

Wetlands

Freshwater wetlands are defined by federal law as those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Some examples of wetlands include marshes, swamps, bogs and similar areas. Under natural conditions wetlands help to maintain and enhance water quality by filtering out sediments and other non-point source pollutants from adjacent land uses. In addition to this, they store

water and provide habitat for a variety of plant and animal species.

Land uses in wetland areas should be limited to low impact uses such as timber production and harvesting, wildlife and fisheries management, wastewater treatment, and recreation. They are not suitable for solid waste facilities. These land uses as well as others are covered in more detail under Section 404 of the Federal Clean Water Act.

For more information, please refer to DNR's "Criteria for Wetland Protection", pp 10-12 (Appendix A, attached).

Assessment

No solid waste facility in Jenkins County, existing or planned, lies or may lie within a freshwater wetland area. Therefore, they pose no threat to the integrity of these wetland areas.

Aquifer Recharge Areas

Recharge is the process by which precipitation infiltrates soil and rock to add to the volume of water stored in pores and other openings within them. Aquifers are soils or rocks that yield water to wells. Infiltration and recharge takes place in virtually all soils to some degree. The rate or amount of recharge varies however depending on geologic conditions of the area.

The water supply in Jenkins County comes from ground water sources. Jenkins County is served by the Floridian aquifer system. This system is primarily a system of limestone, dolostone, and calcareous sand.

The Georgia Department of Natural Resources has mapped all of the recharge areas in the state which are likely to have the greatest vulnerability to pollution of groundwater from surface and near surface activities of man. Development in these areas should be limited to very low impact development in which little to no area is covered with impervious surfaces such as roads, parking lots and building pads. The sub-surface integrity of these areas should also be maintained by avoiding development that may contaminate water supplies (i.e. landfills). For more information, please refer to DNR's "Criteria for Protection of Groundwater Recharge Areas" (Appendix A, attached).

Assessment

In order to preserve the existing level of water quality in Jenkins County and therefore, continue to provide the citizens with an adequate, in both quantity and quality, potable water supply, no solid waste facility or landfill shall be located within two (2) miles of any aquifer recharge area in Jenkins County.

Water Quality and Water Supply Watersheds

Jenkins County and the City of Millen depend entirely on subsurface water sources for its potable water supply. For this reason, aquifer recharge area are of primary concern to the citizens of Jenkins County. Please refer to the Aquifer Recharge Area section of this plan for

more information. Additionally, no other municipality's water supply watershed(s) are located, wholly or partially, in Jenkins County.

Assessment:

No solid waste facility may lie within Jenkins County's water supply watershed or any water supply watershed in adjacent municipalities. For this reason, they pose no threat to these environmentally sensitive areas.

Water Quality Preservation

Jenkins County and its cities currently enjoy a high level of water quality within the County. In order to preserve the existing level of water quality in the county, and to reduce any future costs of maintaining adequate water quality and/or meeting water quality standards, no solid waste facilities shall be located within wetlands, water supply watersheds or floodplains within Jenkins County.

Assessment:

Additionally, no solid waste facilities shall be located within two (2) miles of any aquifer recharge area within Jenkins County, and no solid waste facilities shall be located in any HUC 12 watersheds containing an impaired waterbody as listed on the most recent Environmental Protection Agency's (EPA) 305(b)/303(d) list or within two (2) miles of any such watershed.

Land Use Factors

Land Use Plan/Zoning Restrictions

The City of Millen has adopted a Zoning Ordinance, but the unincorporated county does not have any zoning provisions in place at this time and does not anticipate the need for adoption of such an ordinance in the immediate future. As required by the Georgia Planning Act of 1989 (HB 215), Jenkins County and Millen do have a Comprehensive Land Use Plan in place.

Assessment

Based on the relatively small projected population increases for Jenkins County through 2014, the required Comprehensive Land Use Plan should be adequate for controlling growth patterns in the county. Zoning may become necessary within the next 10 years in Jenkins County to protect land uses and to ensure that encroaching and incompatible land uses do not occur. For the purposes of this plan, there are currently no conflicting land use or zoning documents in effect.

Heavily Developed Areas

Jenkins County is a rural county with limited development. The most heavily developed areas are in and around the City of Millen. Outside of these areas, development is very limited. The

Savannah River Parkway (a four-lane divided highway connecting Savannah and Augusta) passes directly through Jenkins County. As this highway is completed in the county, the county expects significant development to occur along the Parkway.

Assessment

Because of the rural atmosphere in Jenkins County, there are few heavily developed area restrictions for the county when determining the location of a solid waste handling facility. However, as the Savannah River Parkway is four-laned, the county expects the transportation corridor along the parkway develop heavily. As a result, no solid waste facilities or landfills shall be located within a one (1) mile buffer of the Savannah River Parkway.

Three Mile Distance from a National Historic Site Inventory

Currently, there are three sites in Jenkins County that are on the National Register of Historic places. These sites are the Jenkins County Courthouse in Millen, the Birdsville Plantation northwest of Millen, and Camp Lawton north of Millen at Magnolia Springs State Park.

Assessment

No landfill or solid waste transfer facility may be located within a three (3) mile radius around the County Courthouse or any historic site noted herein. Additionally, no landfill or solid waste transfer facility may be located within a three (3) mile radius around any future site or district nominated or designated to be included in the National Register of Historic Places.

Proximity to Airports

There is currently one (1) airport in Jenkins County. The airport is located on Highway 25, north of Millen.

Assessment

Proximity to airports is not a significant land limitation factor in Jenkins County. However, because the local airport facilities are used for industrial recruitment purposes, the location of a landfill or solid waste facility is discouraged near the county's airport. Consequently, no landfill or solid waste facility may be located within a two (2) mile radius of the county's airport.

Owners or operators proposing to site new MSWLF units and lateral expansions within a five-mile radius of any public-use or private-use airport runway end used by turbojet or piston-type aircraft must notify the affected airport and the Federal Aviation Administration (FAA).

Jurisdictional Boundaries

Jenkins County is bordered by Bulloch, Burke, Emanuel, and Screven Counties. No solid waste landfills or solid waste facilities in the county currently touch any of the surrounding jurisdictions.

Assessment

Until any multi-jurisdictional agreements are made between Jenkins County and its neighboring counties, solid waste facilities should be located in such a way as to not be a detriment to these other jurisdictions. The county respects the siting criteria adopted by its neighboring counties. Because of the rural atmosphere of Jenkins County, and the ample supply of open land, this development criteria should not pose a problem for the county so long as any development does not conflict with a neighboring jurisdiction's siting criteria.

Access***Inventory***

There are no operational landfills in Jenkins County. Any future landfills would need to be sited on an easily accessible parcel of land with direct road access that does not interfere with rail system operations. The highway system in Jenkins County is generally well maintained and covers all areas of the county.

Assessment

Access does not present a major hurdle in Jenkins County. Most parcels in the county are easily accessible by road and the roads, while not all paved, are maintained in good condition.

Ogeechee Wildlife Management Area

The Ogeechee Wildlife Management Area is 24,000 acres of undeveloped land covering portions of Jenkins, Washington and Hancock Counties. This area offers protection for the Ogeechee River as well as serving as an attraction for hunting, fishing, canoeing, hiking and camping.

Assessment

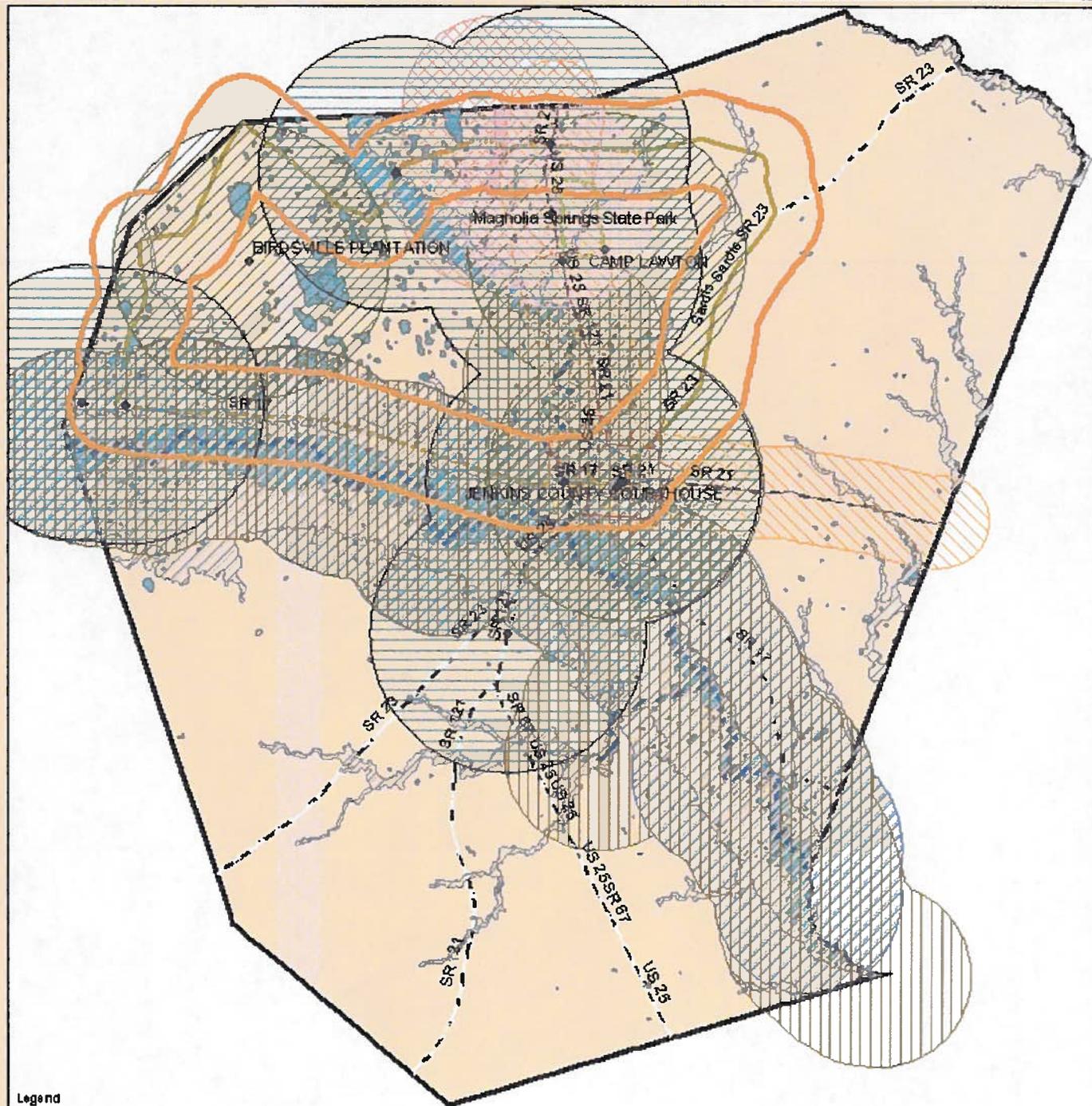
Due to its importance to Jenkins County both environmentally and economically, no solid waste facility, landfill, or solid waste transfer facility shall be located within two (2) miles of any portion of the Ogeechee Wildlife Management Area or the Ogeechee River.

Maps on the following pages delineate many of the areas covered by the above criteria as of the adoption date of this plan.

Composite Map

Landfill Suitability Maps

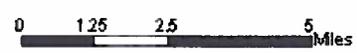
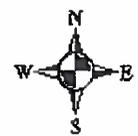
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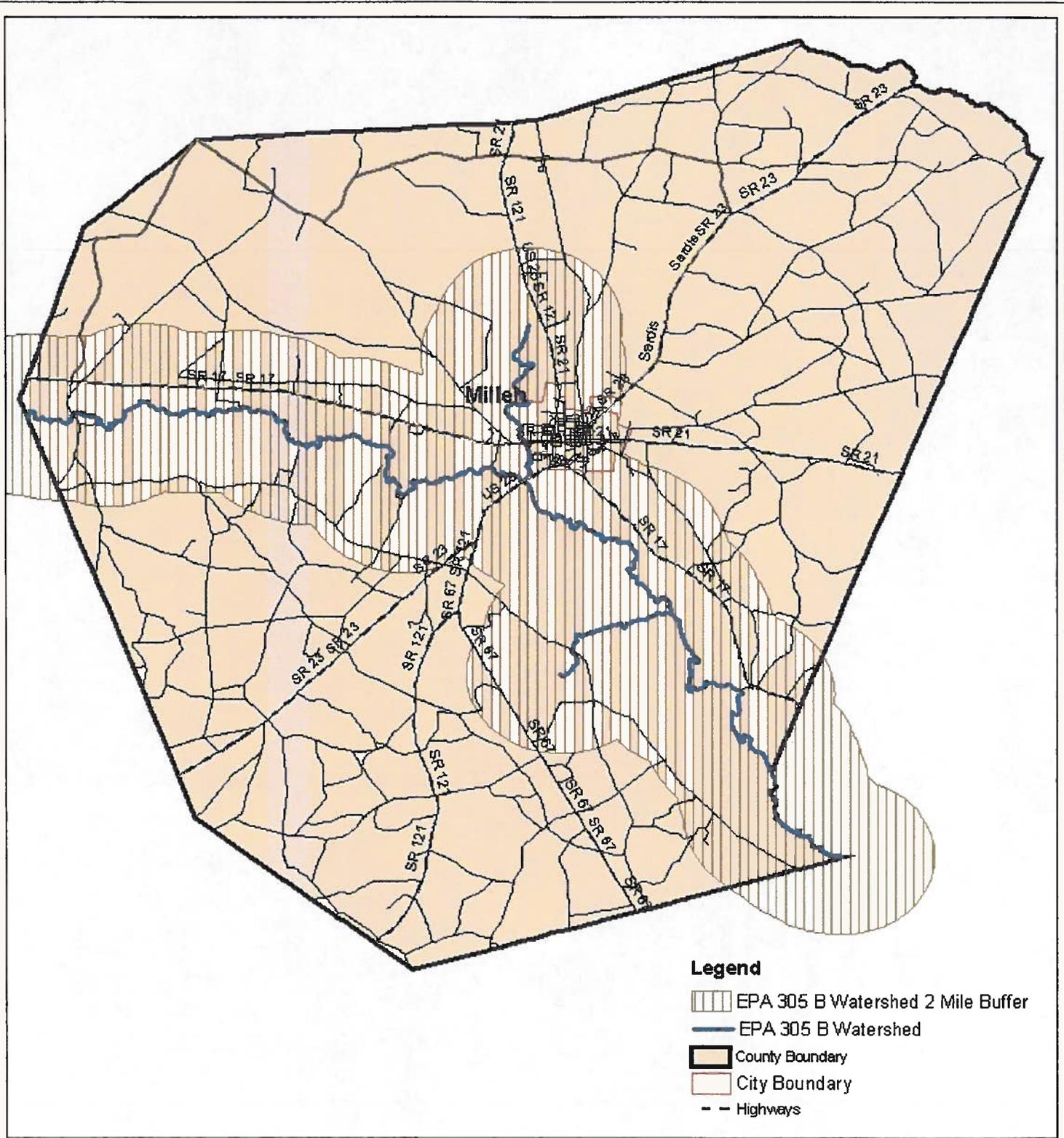
- Legend**
- Savannah River Pkwy 1 Mile Buffer
 - EPA 305 B Watershed 2 Mile Buffer
 - National Register Sites 3 Mile Buffer
 - Airport 2 Mile Buffer
 - 100 Year Flood Plain
 - Ogeechee River 2 Mile Buffer
 - Groundwater Recharge
 - State Parks
 - Airport
 - Aquifer Recharge 2 mile Buffer
 - Historical Markers 3 Mile Buffer
 - Proposed Socio Byway 1 Mile Buffer
 - Wetlands
 - Proposed Socio Byway
 - EPA 305 B Watershed
 - Savannah River Pkwy
 - National Register Sites
 - Historical Markers
 - City Boundary
 - Highways
 - County Boundary

Jenkins County

SWMP Map



CS RA Regional Development Center
 GIS Department
 December, 2004



Legend

-  EPA 305 B Watershed 2 Mile Buffer
-  EPA 305 B Watershed
-  County Boundary
-  City Boundary
-  Highways

Jenkins County

EPA 305 B

Watersheds



CSRA Regional Development Center
 GIS Department
 3023 Riverwatch Parkway, Suite A
 Augusta, GA 30907-2016
 (706) 210-2000
 FAX (706) 210-2006
www.esmardc.org

Table 5-16
Landfill Suitability Criteria

	Criteria	Type
Water Protection (Geotechnical)	Major Fault Zone	Exclusionary
	Public Drinking Water Sources	Exclusionary
	Hydrologically Sensitive Area	Ranked
	Private Drinking Water Wells	Ranked
	Lakes, Rivers, and Creeks	Exclusionary
	Floodplains	Exclusionary
	Wetlands	Exclusionary and Ranked
	Steep Areas	Exclusionary
Land Use	Airports	Exclusionary
	Nonparticipating County Borders	Exclusionary
	Public Lands and Parks	Exclusionary
	Population Density	Exclusionary and Ranked
	Historic and Key Archaeological Sites	Ranked
	Biological/Rare Element Sites	Ranked
Host Community Concerns	Existing Pollution Sources	Ranked

Procedures for Siting Solid Waste Facilities

Any entity requesting a renewal or issuance of a solid waste handling permit from EPD must demonstrate that the facility or facility expansion is consistent with the local government’s solid waste management plan. Chapter 391-3-4 of the Georgia Department of Natural Resources’ Environmental Protection Division relates to Solid Waste Management in Georgia. 391-3-4.05 deals specifically with the siting criteria associated with siting landfills and/or solid waste transfer facilities. In addition to the criteria set forth under DNR’s regulations, the county will also use the following criteria to determine whether the issuance of the requested permit is consistent with the Solid Waste Management Plan:

- Determine whether the proposed facility or facility expansion is sited in an area deemed unsuitable according to one of the criteria list above (examples include, but are not limited to: in groundwater recharge areas; in the Ogeechee Wildlife Management Area;

located within two miles of a municipal water supply; on soils poorly suited for development; on slopes of greater than 25 percent; in area that do not have easy accessibility to transportation networks; on urban or built up lands; on or around water bodies or wetlands; or on federal, state, or public lands; in compliance with neighboring jurisdiction's siting criteria).

- Determine whether the proposed facility or facility expansion is sited in a location that is consistent with any local zoning ordinances.
- Determine whether the proposed facility or facility expansion negatively impacts other natural or cultural resources of the County.
- Determine whether the proposed facility or facility expansion negatively impacts the current solid waste management infrastructure of the County;
- Determine whether the proposed facility or facility expansion negatively impacts collection capability and disposal capacity identified in the Plan.
- Determine whether the proposed facility or facility expansion negatively impacts the County's ability to contribute to the State's 25 percent waste reduction goal.
- Determine whether the proposed facility or facility expansion negatively impacts the financial viability of the County's solid waste management system.

No proposed facility or facility expansion will be sited in the County without a letter from the County Commission stating that the facility is consistent with the Solid Waste Management Plan. The County Commission will hold at least one public hearing to gather input to make this determination.

Assessment of Land Limitation

Based on the siting criteria noted above, approximately 61 percent of the land area in Jenkins County is considered unsuitable for or limited suitability for siting a landfill or solid waste transfer facility. The procedure described above, once put into place, will help ensure that facilities sited in the County are consistent with this Plan.

Needs and Goals

The County's goal for land limitation is to ensure that proposed solid waste handling facilities are compatible with surrounding areas and are placed in areas suitable for such developments.

- Continue to perform monitoring of land uses.
- Monitor closing landfill as required.
- Enforce jurisdictional ordinances through code enforcement program.

8. Implementation Strategies

Summary of County Need and Goals

Jenkins County has established the following needs and goals as part of its Solid Waste Management Plan:

- To ensure efficient and effective collection of solid waste in the County over the next ten years.
- To contribute to the statewide goal of 25 percent per capita reduction in the amount of solid waste disposed.
- To ensure that disposal facilities in the region meet regulatory requirements and can continue to support and facilitate effective solid waste handling programs for the next ten years.
- To ensure that residents and businesses in the region understand the issues, needs, and goals of the solid waste
- To ensure that proposed solid waste handling facilities are compatible with surrounding areas and are placed in areas suitable for such developments.
- To achieve a balanced and affordable solid waste management plan implementation strategy, while also meeting the goals and requirements of state law.

Statement/Demonstration of 10-Year Collection Capability

The county will continue to provide greenboxes for the unincorporated area and the city will continue to provide curbside pick-up to residents of the incorporated city. These collection methods will continue throughout the ten-year planning period since the county will experience very little growth over the next ten years. The city and county will annually monitor the collection capability and ensure that solid waste collection equipment and vehicles are adequate to efficiently and effectively continue collection.

Statement/Demonstration of 10-Year Disposal Capacity

As noted previously, the population of Jenkins County is expected to experience very little growth so it is reasonable to assume that the County's current disposal programs and operations should be adequate for meeting the County's needs during the 10-year planning period.

The county and each of the municipalities have adequate ability to ensure that municipal solid waste can be collected and disposed of for the next ten years.

Short Term Work Program (Implementation Strategy)

The Implementation Strategy for each jurisdiction covered under this Solid Waste Management Plan is attached and outline the proposed activities to meet the goals and objectives of this plan. The first five years of the Implementation Strategy will serve as the first Short-Term Work Program. The second half of the Implementation Strategy will be updated in accordance with the planning schedule established and revised from time to time by the Department of Community Affairs.

Appendix

- A. Implementation Strategy
- B. Local Government Transmittal Resolutions

DRAFT

**Jenkins County and the City of Millen
Joint Solid Waste Management Plan Implementation Strategy 2005-2014**

ACTIVITY	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Responsible Party	Cost	Funding Source
Waste Reduction Element													
Develop education and awareness of recycling programs and opportunities for paper and organic waste materials.	X	X	X	X	X	X	X	X	X	X	City/County/ County Extension Office	N/A	N/A
Continually improve waste reduction programs for the next 10 years	X	X	X	X	X	X	X	X	X	X	City/County/ County Extension Office	N/A	N/A
Begin to participate in the Earth 911 project to educate the public about recycling programs within the state and surrounding area.	X			X			X			X	County	\$75,000	DNR Scrap Tire Grant
Consider developing a regional Keep Georgia Beautiful Campaign	X	X	X	X	X	X	X	X	X	X	City/County	N/A	N/A
Work with the State's Recycling Coordinator to identify viable recycling projects in the county in coming years.	X	X	X	X	X	X	X	X	X	X	City/County	N/A	N/A
Consider developing a regional recycling program.	X	X	X	X	X	X	X	X	X	X	City/County/ RDC	\$30,000	Grants/ Cities/ County
Consider developing a county-wide mulching operation to reduce yard trimmings going into the inert landfill and MSW landfill.	X	X	X	X	X	X	X	X	X	X	City/County	\$15,000	Cities/ County
Collection Element													
Continue to maintain and purchase solid waste equipment needed to properly operate solid waste collection efforts.	X	X	X	X	X	X	X	X	X	X	City/County	N/A	N/A
Identify viable collection methods and implement efficiency methods when feasible.	X	X	X	X	X	X	X	X	X	X	City/County	N/A	N/A
Evaluate collection efforts periodically to determine whether changes are needed.	X		X		X		X		X		City/County	N/A	N/A
Research existing greenbox system and determine if changes are needed.			X		X		X		X		City/County	\$50,000	County/ GEFA
Consider collecting yard trimmings or even providing an area for yard trimmings drop off.	X	X	X	X	X	X	X	X	X	X	City/County	N/A	N/A
Encourage Residents to cover their loads.	X	X	X	X	X	X	X	X	X	X			
Disposal Element													
Continue monitoring of phase I closure of the Jenkins County MSW landfill.	X	X	X	X	X	X	X	X	X	X	City/County, Extension Office	N/A	N/A

**A RESOLUTION
JENKINS COUNTY BOARD OF COMMISSIONERS**

ADOPTION OF THE JOINT SOLID WASTE MANAGEMENT PLAN

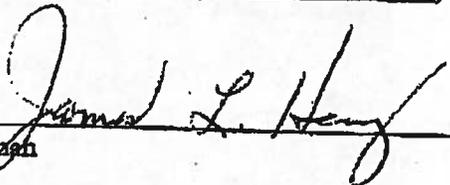
WHEREAS, the Standards and Procedures of the Georgia Comprehensive Solid Waste Management Act, which are intended to provide a framework to facilitate and encourage integrated, comprehensive solid waste management planning at the local, multi-jurisdictional, and regional levels, have been met;

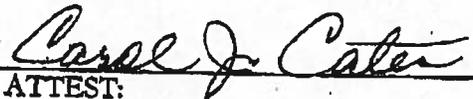
WHEREAS, the Jenkins County Board of Commissioners has received a letter indicating the Department of Community Affairs has reviewed the draft joint solid waste management plan and found it to be consistent with the minimum planning standards and procedures for solid waste management;

WHEREAS, the Jenkins County Board of Commissioners is required to adopt the Jenkins County/City of Millen Joint Solid Waste Management Plan to be considered "an eligible local government";

BE IT THEREFORE RESOLVED, that the Chairman and the Board of Commissioners of Jenkins County do hereby adopt the Jenkins County/City of Millen Joint Solid Waste Management Plan 10-Year Update.

Adopted this 1 day of March, 2005.


Chairman


ATTEST:

**A RESOLUTION
CITY OF MILLEN**

ADOPTION OF THE JOINT SOLID WASTE MANAGEMENT PLAN

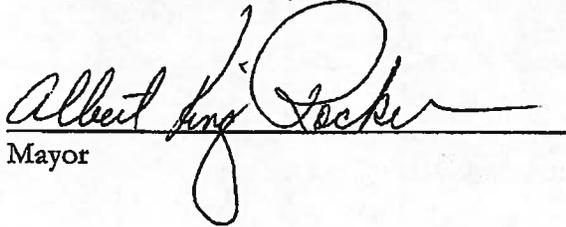
WHEREAS, the Standards and Procedures of the Georgia Comprehensive Solid Waste Management Act, which are intended to provide a framework to facilitate and encourage integrated, comprehensive solid waste management planning at the local, multi-jurisdictional, and regional levels, have been met;

WHEREAS, the City of Millen Mayor and City Council have received a letter indicating the Department of Community Affairs has reviewed the draft joint solid waste management plan and found it to be consistent with the minimum planning standards and procedures for solid waste management;

WHEREAS, the City of Millen Mayor and City Council are required to adopt the Jenkins County/City of Millen Joint Solid Waste Management Plan to be considered "an eligible local government";

BE IT THEREFORE RESOLVED, that the City of Millen Mayor and City Council do hereby adopt the Jenkins County/City of Millen Joint Solid Waste Management Plan 10-Year Update.

Adopted this 1ST day of MARCH, 2005.



Mayor

ATTEST:





GEORGIA DEPARTMENT OF
COMMUNITY AFFAIRS

Mike Beatty
COMMISSIONER

Sonny Perdue
GOVERNOR

February 4, 2005

Mr. Andy Crosson, Executive Director
CSRA RDC
3023 Riverwatch Parkway, Suite A
Augusta, Georgia 30907-2016

Dear Andy:

Our staff has reviewed the 2005 -2014 Solid Waste Management Plan for Jenkins County and the City of Millen. We find the plan to be in compliance with the Minimum Planning Standards and Procedures for Solid Waste Management.

To regain eligibility for solid waste permits, grants, and loans, Jenkins County and the City of Millen must adopt the 2005- 2014 Solid Waste Management Plan as soon as possible. As soon as we receive a copy of their adoption resolutions, we will send official notification to the County and City of their renewed eligibility to receive solid waste permits, grants, and loans.

Sincerely,

Rick Brooks, Director
Planning and Environmental Management Division

RB/meh

Mary Harrington

From: Kimberly Gray [kgray@csrardc.org]
Sent: Friday, January 28, 2005 6:27 PM
To: mharring@dca.state.ga.us
Subject: page18 - Jenkins County SWMP Corrections

Assurance of 10-Year Capacity

The population of Jenkins County is expected to experience very little growth so it is reasonable to assume that the County's current disposal programs and operations should be adequate for meeting the County's needs during the 10-year planning period. The county and city currently send their waste to the Hickory Hill Landfill in Ridgeland, South Carolina and do not dispose of waste in the State of Georgia. The capacity of the landfill in South Carolina will be adequate for Jenkins County to dispose of their municipal solid waste there for the entire 10-year planning period.

Contingency Strategy

In the event of a natural disaster or other major event that would disrupt disposal efforts, each jurisdiction would direct waste to nearby landfills. Negotiation of such mutual agreements will need to be initiated in the near future to ensure that such an arrangement is in place. It is estimated that it would take approximately three to five days to implement an alternate disposal strategy.

Assessment of Disposal

The population of Jenkins County is expected to experience very little growth so it is reasonable to assume that the County's current disposal programs and operations should be adequate for meeting the County's needs during the 10-year planning period.

During the planning period, the county and the city will monitor the useful life capacity of the facility where municipal solid waste is taken. In the event a change in locations is needed, new arrangements with other nearby solid waste handling facilities will be negotiated in time to make a smooth transition to the new location. Through this process, both the county and the city will be able to adequately address the 10-year disposal capacity of solid waste originating in their respective jurisdictions.

Statement of Needs and Goals

Jenkins County's goal is to ensure that disposal facilities in the region meet regulatory requirements and can continue to support and facilitate effective solid waste handling programs for the next ten years.

- Continue monitoring of phase I closure of the Jenkins County MSW landfill.
- Continue to use the transfer station to transfer solid waste out of state.

Kimberly Gray
Planning Director
CSRA Regional Development Center
3023 Riverwatch Pkwy., Suite A
Augusta, GA 30907
(706) 210-2000, ext. 122 (office)
(706) 210-2006 (fax)

Mary Harrington

From: Mary Harrington
Sent: Monday, January 24, 2005 2:53 PM
To: 'Kim Gray'
Subject: Jenkins/Millen SWMP

Hi Kim!

I just reviewed the Jenkins SWMP and have a couple of comments. Addressing them should be easy so you can make the fixes and e-mail or fax the updated sections – that'll work for me. If you want me to send a formal letter with these requested changes - let me know.

My first comment relates to information listed on page 18, first chapter, last sentence: "If the county did not dispose of waste in South Carolina, the landfill in Jenkins County has the capacity for the ten-year planning period." But information on page 14 states (first line under Disposal Element): "The county's municipal solid waste landfill under permit number 082-005D(SL) is currently under closure and is not in use." Information in subsequent paragraphs indicates that there are no open MSW landfills in Jenkins, so the disposal contingency plan is in question. Since waste is going to SC the county does not need a capacity assurance letter, but the disposal contingency information needs to be corrected.

The second comment is to request that you add one item to the disposal element in the Implementation Strategy: Please state something like: "Continue current use of the county transfer station to send city and county MSW for disposal at the Hickory Hill Landfill in Ridgefield, South Carolina." and list the annual cost if you are able.

Otherwise - once again – good job on the plan (thank you!).

*Mary Harrington
(404) 679-3144
Department of Community Affairs
60 Executive Park South, NE
Atlanta, GA 30329-2231*



CENTRAL SAVANNAH RIVER AREA REGIONAL DEVELOPMENT CENTER

3023 River Watch Parkway, Suite A
Augusta, GA 30907-2016
(706) 210-2000 • FAX (706) 210-2006

1/5/05 in database



Answers.Action.Advocacy



Counties Served:

Burke

MEMORANDUM

Columbia

TO: Interested Parties

Glascoc

FROM: Kimberly Gray, Planning Director *KFG*

Hancock

DATE: December 28, 2004

Jefferson

Be advised that the Joint Solid Waste Management Plan for Jenkins County and the City of Millen has been submitted to the CSRA Regional Development Center for review. The attached form provides relevant information related to this plan.

Jenkins

Lincoln

Copies can be found at the Millen City Hall, Jenkins County Courthouse, or the CSRA Regional Development Center. Should you have any questions, please do not hesitate to contact me at the Central Savannah River Area Regional Development Center at (706) 210-2000, ext. 122.

McDuffie

Richmond

Taliaferro

Warren

Washington

Wilkes



For information on the Area Agency on Aging (AAA), a division of the CSRA Regional Development Center, call (706) 210-2018 or toll free 1-888-922-4464. Your "one call connection" for finding resources that help senior citizens. The CSRA Regional Development Center is an Equal Opportunity Employer.

**Notification of Solid Waste Plan Submission
And Comment Opportunity**

Date of Submission: December 28, 2004

Submitting Local Governments:

Jenkins County Board of Commissioners
P.O. Box 797
Millen, GA 30442
Carol Cates, County Administrator

City of Millen
P.O. Box 929
Millen, GA 30442
Al Knight, City Administrator

Description and General Nature of Plan:

In accordance with Georgia's Minimum Planning Standards and Procedures for Solid Waste Management established for the implementation of the Georgia Comprehensive Solid Waste Management Act of 1990, O.C.G.A. Section 12-8-20, Jenkins County and the City of Millen have prepared and submitted to the CSRA Regional Development Center for review a Joint Solid Waste Management Plan Update, 2005-2014. The plan update includes elements of Waste Disposal Stream Analysis, Waste Reduction, Collection, Disposal, Land Limitation, Education and Public Involvement and an Implementation Schedule.

Notice of submittal of the Joint Solid Waste Management Plan Update, 2005-2014 is being sent to the following affected local governments and organizations: Bulloch, Burke, Emanuel, and Screven Counties; Heart of Georgia RDC; Coastal Georgia RDC; Department of Community Affairs, Department of Natural Resources-Environmental Protection Division; Georgia Environmental Facilities Authority; and Pollution Prevention Assistance Division.

- | | | |
|---|---------------------------------|--|
| <input type="checkbox"/> New SWMP | <input type="checkbox"/> Single | <input type="checkbox"/> Joint Jurisdiction |
| <input checked="" type="checkbox"/> SWMP Update | <input type="checkbox"/> Single | <input checked="" type="checkbox"/> Joint Jurisdiction |
| <input type="checkbox"/> SWMP Amendment | <input type="checkbox"/> Single | <input type="checkbox"/> Joint Jurisdiction |
| <input checked="" type="checkbox"/> Short-Term Work Program | <input type="checkbox"/> Single | <input checked="" type="checkbox"/> Joint Jurisdiction |

Regional Review Hearing Date and Time: None Scheduled

Place of Regional Review Hearing: N/A

Reviewing Regional Development Center: CSRA Regional Development Center
Contact Person: Kimberly Gray, Planning Director
Address: 3023 River Watch Pkwy., Suite A
Augusta, GA 30907
Phone: (706) 210-2000, ext. 122
Email: kgray@csrardc.org

Note: The purpose of this notice is to provide notified parties an opportunity to submit their comments about the update with the understanding that these comments will be considered by the RDC in its review for conflicts with other plans. Copies of the plan are available at the Millen City Hall, the Jenkins County Courthouse, and the CSRA Regional Development Center. Written comments on the submitted update will be accepted by the RDC through Friday, January 28, 2005 at 5:00 p.m.

JENKINS COUNTY BOARD OF COMMISSIONERS

RESOLUTION OF TRANSMITTAL

Transmittal of the Joint Jenkins County/City of Millen Solid Waste Management Plan Update to the Central Savannah River Area Regional Development Center.

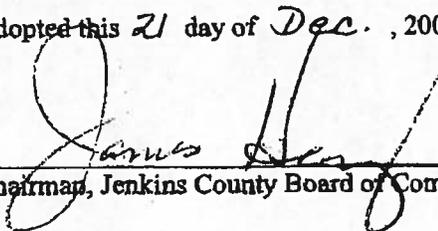
WHEREAS, Jenkins County and the City of Millen have completed a Joint Solid Waste Management Plan Update,

WHEREAS, Jenkins County and the City of Millen certify that the minimum public hearing requirements as required by the Georgia Department of Community Affairs Minimum Planning Standards and Procedures for Comprehensive Planning have been met,

WHEREAS, Jenkins County and the City of Millen have completed a Five-Year Short-term Work Program in compliance with and as set forth by the Georgia Department of Community Affairs Minimum Planning Standards and Procedures for Comprehensive Planning have been met.

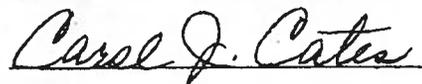
BE IT THEREFORE RESOLVED, that the Jenkins County Board of Commissioners and the Millen Mayor and City Council do hereby transmit the Joint Jenkins County/City of Millen Solid Waste Management Plan Update to the Central Savannah River Area Regional Development Center for review under the Minimum Planning Standards and Procedures for Solid Waste Management.

Adopted this *21* day of *Dec.*, 2004.



Chairman, Jenkins County Board of Commissioners

Attest:



JENKINS COUNTY

RESOLUTION OF TRANSMITTAL

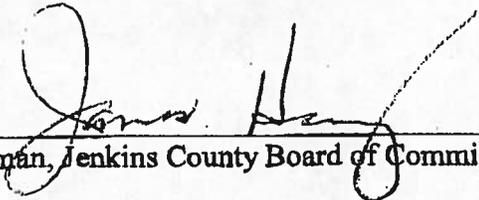
Transmittal of the Joint Jenkins County/City of Millen Comprehensive Plan 10-Year Update to the Central Savannah River Area Regional Development Center.

WHEREAS, Jenkins County has completed a Comprehensive Plan 10-Year Update,

WHEREAS, Jenkins County certifies that the minimum public hearing requirements as required by the Georgia Department of Community Affairs Minimum Planning Standards and Procedures for Comprehensive Planning have been met.

BE IT THEREFORE RESOLVED, that the Jenkins County Board of Commissioners does hereby transmit the Comprehensive Plan 10-Year Update to the Central Savannah River Area Regional Development Center for review under the Minimum Planning Standards and Procedures for Comprehensive Planning.

Adopted this *21* day of *Dec.*, 2004.



Chairman, Jenkins County Board of Commissioners

ATTEST: *Carol J. Cates*



copy

**GEORGIA DEPARTMENT OF
COMMUNITY AFFAIRS**

**Mike Beatty
COMMISSIONER**

**Sonny Perdue
GOVERNOR**

March 21, 2005

Honorable Albert King Rocker
Mayor, City of Millen
Post Office Box 929
Millen, Georgia 30442-0929

Dear Mayor Rocker:

We have received notification that Jenkins County and the City of Millen have adopted the 2004 -2013 Solid Waste Management Plan that meets the Minimum Planning Standards and Procedures for Solid Waste Management. Accordingly, it is my pleasure to notify you that Jenkins County and the City of Millen have regained eligibility for solid waste permits, grants and loans.

As you have experienced, in addition to proper and thorough long-range planning, effective solid waste management requires the ability to adapt when circumstances indicate that such action is necessary. Through continued review, and revision when necessary, solid waste planning provides your local government with more control over its destiny and assists you in dealing more effectively with both short-term and long-term management decisions.

We commend you for your hard work and dedication. If you have any questions regarding your solid waste management plan, please call Mary Harrington in our Office of Environmental Management at (404) 679-3144.

Sincerely,

Mike Beatty
Commissioner

MB/meh

cc: Andy Crosson, Executive Director, CRSA RDC



GEORGIA DEPARTMENT OF
COMMUNITY AFFAIRS

Mike Beatty
COMMISSIONER

Sonny Perdue
GOVERNOR

March 21, 2005

Honorable James L. Henry
Chair, Jenkins County Commission
Post Office Box 797
Millen, Georgia 30442-0797

Dear Commissioner Henry:

We have received notification that Jenkins County and the City of Millen have adopted the 2004 -2013 Solid Waste Management Plan that meets the Minimum Planning Standards and Procedures for Solid Waste Management. Accordingly, it is my pleasure to notify you that Jenkins County and the City of Millen have regained eligibility for solid waste permits, grants and loans.

As you have experienced, in addition to proper and thorough long-range planning, effective solid waste management requires the ability to adapt when circumstances indicate that such action is necessary. Through continued review, and revision when necessary, solid waste planning provides your local government with more control over its destiny and assists you in dealing more effectively with both short-term and long-term management decisions.

We commend you for your hard work and dedication. If you have any questions regarding your solid waste management plan, please call Mary Harrington in our Office of Environmental Management at (404) 679-3144.

Sincerely,

Mike Beatty
Commissioner

MB/meh

cc: Andy Crosson, Executive Director, CRSA RDC