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## INTRODUCTION

### MUNICIPAL SOLID WASTE REGIONAL PLAN

The Solid Waste Management Act of 1991 required the formation of **municipal solid waste planning regions**, based on the recommendations of a District Needs Assessment prepared under the leadership of the state's nine Development Districts. The planning regions are to be formed by the end of December 1992.

The purpose of the District Needs Assessment was threefold: (1) to carry out an inventory and analysis of the existing solid waste management system; (2) to define needs for additional services and facilities for the next ten years; and (3) to recommend **rational waste disposal areas**, which would provide the nucleus for a municipal solid waste planning region.

The purpose of the regional plan is to set forth how planning regions will meet these needs. The regional plan is based on the inventory of facilities, services and programs provided in the District Needs Assessments. The planning region has defined its specific needs--quantitatively, where possible.

It was only necessary to revise the data collected in the District Needs Assessment, when there was a significant change in waste generation or management capacity, in the intervening year, which was not projected in the Assessment. The regional plan utilizes Tables from the District Needs Assessments, where appropriate.

The regional plan is more specific and more detailed than the District Needs Assessment. The regional plan addresses all required plan elements and follows the organization format set forth in the Guidelines for Preparation of a Municipal Solid Waste Regional Plan, prepared by the Tennessee State Planning Office. Much of the plan consists of narrative supported by tables, figures, and maps prepared by the region. The planning horizon is 1994-2003.

The plan will consist of three parts: (1) an Executive Summary; (2) a detailed plan; and (3) Appendices.

The Statutory Authority requiring preparation of a plan and describing its content is found in the following sections of the Tennessee Code Annotated: T.C.A. Sections 68-31-813(c); 68-31-814(a); 68-31-814(b)(6); 68-31-815; 68-31-851(b); 68-31-861(f); 68-31-842; 68-31-871(a) and (b); and indirectly, in 68-31-866(b); and 49-7-121.

**DESCRIPTION OF AND RATIONALE FOR THE REGION**

The Solid Waste Planning Region consists of Hancock County and the City of Sneedville. The County encompasses 222.3 square miles in central northeast Tennessee bordering Virginia to the north and Claiborne, Grainger and Hawkins Counties to the west, south and east. The 1990 Census population of the county was 6,663 with a population density of 30 people per square mile. Land use is predominately agricultural. The county is classified as 100 percent rural. The population trends show a decrease in population and projections are for a continued out migration of population.

Hancock County elected to plan as a single county region. Initial contact with neighboring counties indicated a lack of interest or willingness to plan or join with Hancock County as a multi-county region. Hancock County has complex topography and geology. Mountains and rivers divide the county making management of waste in a multi-county operation very difficult. The small volume of waste produced in Hancock County makes it even more unattractive.

**SOLID WASTE PLANNING BOARD**

The Solid Waste Planning Board is a five member board which was approved by the Hancock County commission. Four (4) members represent the county and one (1) member represents the City of Sneedville. Sneedville is the only incorporated city which provides solid waste collection services to its citizens.

**SOLID WASTE PLANNING BOARD MEMBERS**

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Sandra Palmer, Chairman  
Gary Dossett, Vice Chairman  
Sally Morris, Secretary  
Robert Winstead  
Larry Wayne Hopkins

## **IDENTIFIED GOALS AND OBJECTIVES**

The responsibility of the SWPB was to analyze current solid waste management operations in the Region, identify deficiencies and needs and to develop a comprehensive 10-Year Solid Waste Management Plan. The Plan was submitted to the Tennessee Department of Environment and Conservation, Division of Solid Waste Assistance.

### **REGIONAL NEEDS**

- Develop a plan which will meet regulations and provide needed services at the least cost possible.
- Develop and install a regional recycling infrastructure.
- Expanded solid waste education program.
- Assure disposal capacity.
- Analyze operations for cost effectiveness.
- Combine fragmented solid waste services under one oversight group.

### **GOAL**

Comprehensive and integrated solid waste management in Hancock County which is environmentally and financially sound, meets long-term needs of development and is in the best interest of citizens.

### **OBJECTIVES**

- Develop an implementation plan which meets state regulations, serves the best interests of citizens, is practical and financially responsible.
- Provide adequate collection of municipal solid waste from citizens through establishment of a convenience center and house to house collection.
- Plan for 10 year disposal (landfill) capacity to serve Hancock Countians and provide for economic growth and expansions.
- Reduce waste by 25% by December 31, 1997 through recycling, waste reduction, reuse and responsibility.
- Educate children, adults, businesses, industries, and government sectors on proper solid waste management including financial and environmental impacts.

### **SYSTEM ELEMENTS**

#### **Collection and Transportation**

Analysis of the current collection system indicates that all citizens are not adequately served as required by the 1991 Solid Waste Management Act. Escalating costs associated with implementing requirements of the Act necessitate that only one convenience center will be located within the county. A county wide collection program will be implemented in order to serve the citizens in the most cost efficient manner. Residential waste will be collected house to house once per week. Commercial businesses will be collected two or three times per week depending on volume generated.

## **Waste Reduction**

The strategy for reaching waste reduction goals has already been set in motion. Recycling drop off containers are being placed in the convenience center to collect glass, plastics, steel cans, aluminum cans, old newspapers, waste oil and white goods. An aggressive education program is critical to the success of the waste reduction plan and is discussed in Chapter IX. The school system is targeted for an aggressive campaign for waste reduction.

Collected recycled materials will be processed and marketed at Dave's Recycling (privately owned and operated) in New Tazewell, Claiborne County. The Authority will join the Recycling Marketing Cooperative for East Tennessee for additional marketing of collected materials.

Whole tires will be collected and will be periodically shredded under the state's private contract. Waste oil will be recycled at the convenience center and lead acid batteries will be recycled at Dave's Recycling in New Tazewell.

There are no current or planned economic incentives or disincentives in the region although possibilities have been discussed if future conditions require adoption.

Source reduction, especially precycling, has been discussed and is a focus area education programs. Quantification of this waste reduction component is difficult. The Board will prepare and seek approval of resolutions and ordinances by county and city governments to adopt recycled content resolutions for purchase of supplies.

Residential Recycling - The current level (1993-94) is about 22.81 tpy. The projected level of residential recycling in 1995 is 400 tpy and in 2003 is 1361 tpy.

Commercial and Industrial Recycling - Current (1993) commercial and industrial recycling totals approximately 0 tpy. This is projected to increase to 320 tpy in 1995 and 1021 tpy by 2003.

## **Disposal**

The landfill that used to be in operation in Hancock County was closed due to leachate problems and code violations. The waste generated in and collected from Hancock County will be transported to Hawkins County for disposal.

## **Education**

A comprehensive, integrated information, education and publicity program which targets all sectors of the community including adults, children, government, business and industry and the general public has been designed with leadership given to Partners for Clean Communities Keep America Beautiful System. Goals will be pursued through many focused activities,

projects, publicity and education campaigns designed to increase understanding and participation.

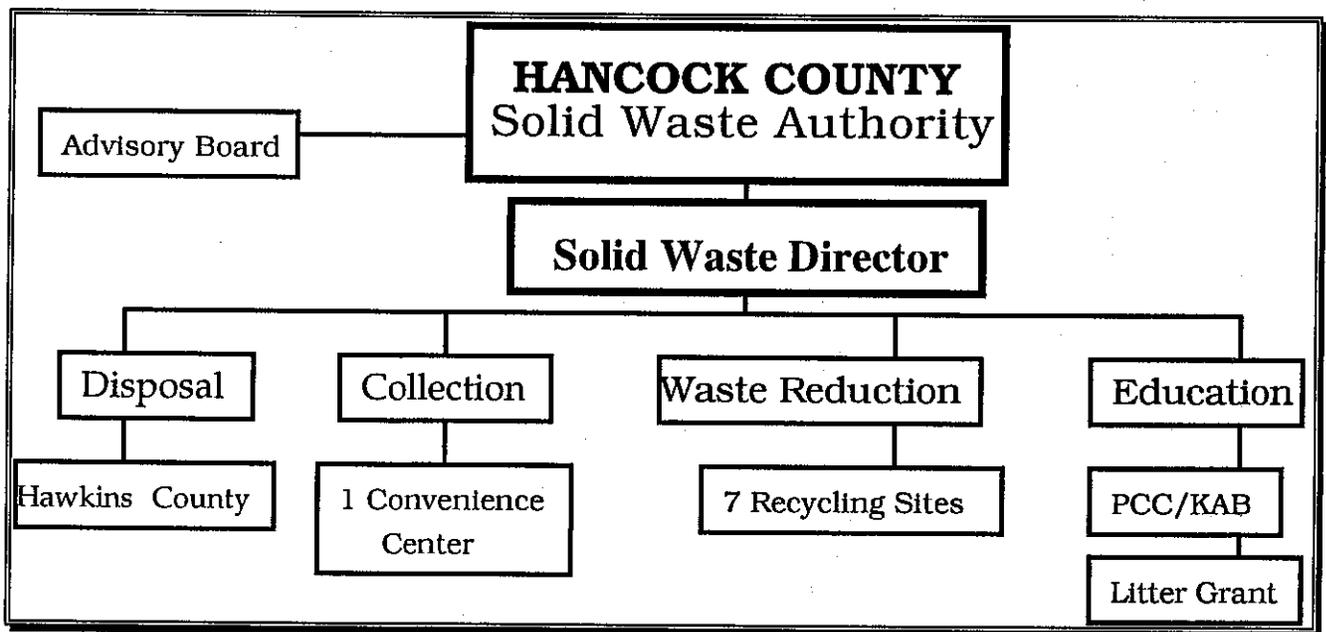
The primary methods to be used are school based instruction, workshops and training, audio-visual materials, slides and videos, publications, contests and awards, exhibits and demonstrations, and a speaker's bureau.

**HOW NEW PROGRAMS, SERVICES AND FACILITIES WILL BE COORDINATED WITH THE EXISTING SYSTEM**

The current system in the Hancock County region is not adequate to serve all citizens and it is not integrated. The City collects household waste in the city limits on a subscription basis. The County has one unmanned drop box for county waste which is hauled to Hawkins County for disposal.

Implementation of this plan including new programs, services and facilities will require coordination, oversight, monitoring, supervision and integration of systems. Stringent state regulations will require trained staff, experienced in working with details, engineering plans, mandates, and complex issues. It will require coordination of collection, transportation, disposal, recycling, reduction and education programs. It will require completion of frequent detailed reports on every component of the plan and an annual report of implementation and revision.

Mandates will best be met and costs controlled by reorganization of the current and planned system into an organization structured to carry out the required Ten Year Solid Waste Management Plan in the most cost effective and efficient manner.



**IMPLEMENTATION SCHEDULE**

**10-YEAR COLLECTION IMPLEMENTATION SCHEDULE**

<b>Program</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>
Construct Center	*	*								
Design collection routes	*									
Purchase Trucks	*			*						
Begin house to house collect		*								
Train Conv. Center Staff		*								
Integrate Recycling Services		*								
Data Collection Annual Reports		*								
Plan Updates						*				

### TEN YEAR TIMETABLE FOR RECYCLING AND WASTE REDUCTION

Program Item	Respon Organ.*	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Buy recycled campaign	PCC/KAB		X	X	X						
Promote/Conduct waste audits	Authority		X	X	X						
Establish clothing collection sites	Authority		X								
Research waste exchange	Authority RMCET		X	X							
Establish. seven recycling sites	Authority		X								
Establish 1 white goods sites	Authority		X								
One cardboard drop off site	Authority		X								
Schools recycling program	Authority Schools		X	X							
Expand markets	Authority Dave's RMCET		X	X	X						
Hire recycling coordinator/solid waste manager	Authority		X								
Meet 25% reduction goal	Authority		X								
Expand recy./diver survey	Authority		X	X	X						
Data collection & reports	Authority		X	X	X	X	X	X	X	X	X
Revise 10-year plan	Authority							X			

NOTE: "X" denotes milestone period and shading denotes on-going operation/emphasis of program item.

### \*TEN YEAR TIMETABLE FOR DISPOSAL CAPACITY

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
--	------	------	------	------	------	------	------	------	------	------

\*Not applicable because Hancock County will not have a landfill

### TEN YEAR TIMETABLE FOR PUBLIC EDUCATION

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
School Based Instruction	x									
Workshops	x									
AV/Slides		x								
Publications		x								
Awards			x							
Exhibits	x									
Speakers Bur.		x								

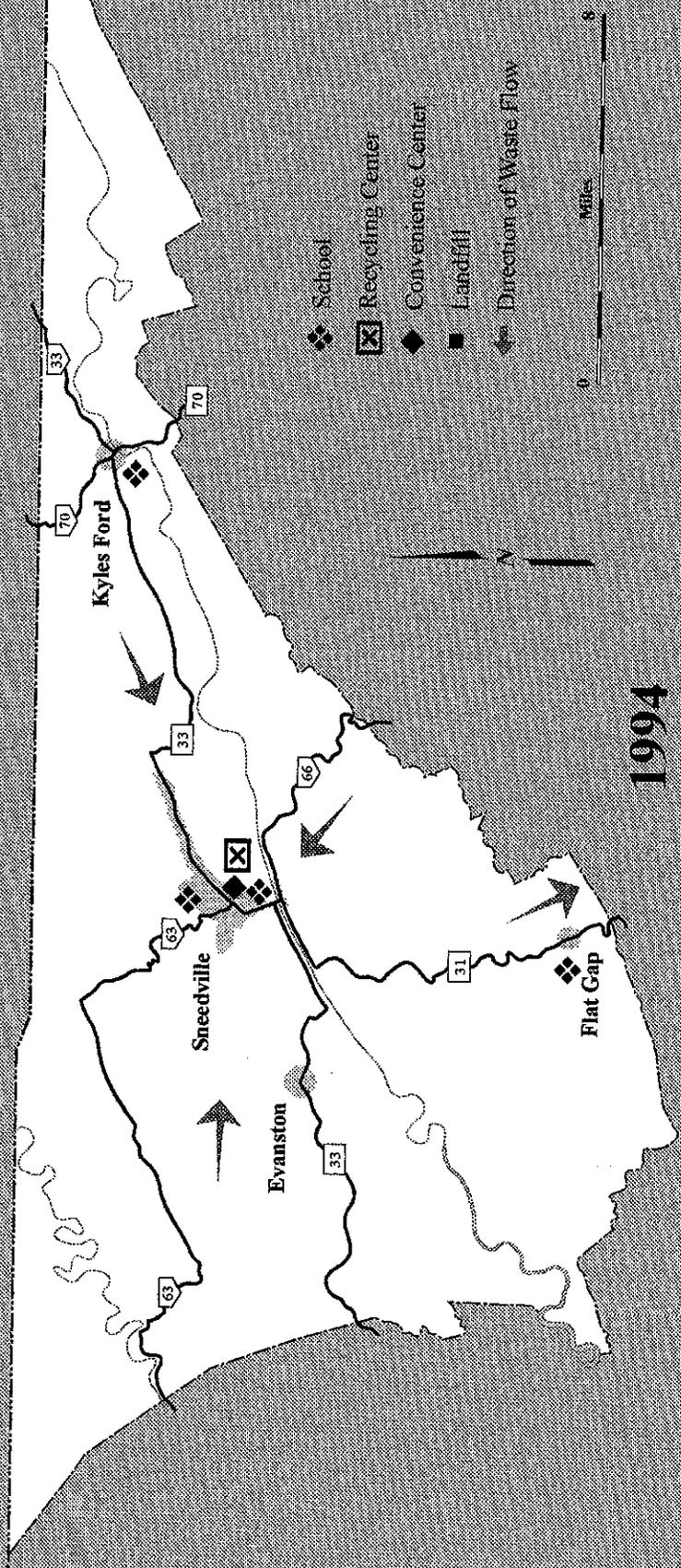
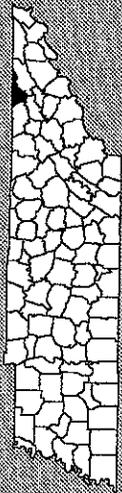
### TEN YEAR TIMETABLE FOR PROBLEM WASTE COLLECTION

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Select and finalize site for HHW. Advertise. Identify site rep. Schedule and hold collection event.		x								
Oil collection		x								
Battery collection			x							
Waste tire collection		x								
Litter collection*	x									

*x* When implementation begins.

\* Litter collection programs began before 1994, and will continue throughout the ten-year planning period

# Hancock County Planned Regional Solid Waste System



1994

source: Hancock County Solid Waste Board

**STAFFING AND TRAINING REQUIREMENTS**

**Current Staffing (1993)**

(3) Collection/Drivers for the City of Sneedville collection

**Future Staffing (1995 - 2003)**

- \* (1) Solid Waste Manager/Recycling Coordinator
- (2) Truck Drivers
- (2) Work Release Inmates
- (1) Bookkeeper (part-time)

\* Denotes employees required to be trained and certified under the SWMA of 1991. Training will be sought when guidelines are issued from the state per TCA. Specifics on anticipated hiring and training in a matrix format can be viewed in Section B of this Chapter.

**BUDGET**

**TEN YEAR COLLECTION AND TRANSPORTATION BUDGET**

Year	Capital Costs	County Annual Costs	Sneedville
1994	\$80,000	\$14,625	\$38,000
1995	0	\$93,276.00	0
1996	0	\$114,025.23	0
1997	0	\$121,288.84	0
1998	0	\$128,798.68	0
1999	0	\$136,536.84	0
2000	0	\$144,510.62	0
2001	0	\$152,727.56	0
2002	0	\$161,195.44	0
2003	0	\$169,922.29	0

**TEN YEAR WASTE REDUCTION BUDGET**

	Capital Outlay	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
					Annual Costs						
Waste Reduction	20,000	0	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000

**TEN YEAR DISPOSAL OPERATION BUDGET**

<b>Year</b>	<b>Annual Costs Including Operation &amp; Maintenance</b>
<b>1994</b>	\$130,200
<b>1995</b>	\$116,075
<b>1996</b>	\$102,025
<b>1997</b>	\$101,675
<b>1998</b>	\$101,300
<b>1999</b>	\$100,925
<b>2000</b>	\$100,550
<b>2001</b>	\$100,175
<b>2002</b>	\$99,800
<b>2003</b>	\$99,425

**TEN YEAR PUBLIC EDUCATION BUDGET**

<b>Program</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>
PCC-KAB	\$2000	\$9500	\$9500	\$9500	\$2000	\$2000	\$2000	\$2000	\$2000	\$2000

## CHAPTER I.

# DESCRIPTION OF THE MUNICIPAL SOLID WASTE REGION

### **A. GENERAL DESCRIPTION:**

The Solid Waste Planning Region consists of Hancock County and the city of Sneedville. Hancock County encompasses 222.3 square miles in central northeast Tennessee bordering Virginia to the north. The 1990 Census population of the county was 6,663 with a population density of 30 people per square mile. Land use is predominately agricultural. The county is classified as 100 percent rural. The population trends show a decrease in population and projections are for a continued outmigration of population.

### **B. RATIONALE FOR REGION FORMATION:**

Hancock County elected to plan as a single county region. Initial contact with neighboring counties indicated a lack of interest or willingness to plan or join with Hancock County as a multi-county region. Hancock County has complex topography and geology. Mountains and rivers divide the county making management of waste in a multi-county operation very difficult. The small volume of waste produced in Hancock County makes it even more unattractive.

### **C. INSTITUTIONAL STRUCTURE:**

The County did not offer collection for its citizens nor had any plans for collection before the 1991 Solid Waste Management Act was passed. The city of Sneedville provides door-to-door pick up of household waste on a subscription basis to its citizens. The city also provides commercial pick up on a subscription basis and services the schools. Hancock County Landfill closed in the summer of 1993. The Hancock County Litter Grant Fund is handled out of the Sheriff's Department. Education is handled by Partners for Clean Communities Keep America Beautiful System (part of a five county organization).

The Municipal Solid Waste Planning Board is responsible for preparing a 10 year Municipal Solid Waste Regional Plan as required by The Solid Waste Management Act of 1991. The board was formed by resolution adopted by the County Commission in December 1992 as required by the Act. There are five members on the planning board. Four are representatives of the county. One represents the city of Sneedville. Members were recommended by the County Executive and approved by the County Commission.

<u>Member</u>	<u>Representation</u>	<u>Term of Office</u>
Sandra Palmer, Chair	County	6 years
Gary Dossett, Vice Chair	County	4 years
Robert Winstead	County	1 year
Sally Morris, Secretary	County	4 years
Larry Wayne Hopkins	City	6 years

The terms of office for officers are one (1) year. Three consecutive absences is grounds for replacement. Replacements are made by the entities being represented.

The Planning Board appointed an Advisory Board. The role of the Advisory Board is to provide feedback and serve as a sounding board in the development of the plan and act as a liason with the County Commission. The Advisory Board is consulted on an individual basis and as a group and serves as one way to involve the public in the process. The public was invited to comment at a public hearing prior to final plan submission. Three presentations were made to the County Commission on matters relating to setting up the solid waste management infrastructure and plan development.

The Plan recommends changes in the current institutional structure in order to integrate a solid waste management system in Hancock County. Projected regional population data do not show any unusual trends which would affect waste generation rates in the region. Planned system components will be adequate to manage population increases significantly higher than projected.

#### **D. DEMOGRAPHICS:**

The current population for the Region, according to U.S. Census Bureau projections, is noted below. The following Tables also feature data on average population density, population distribution, housing occupancy, and projected populations.

**Name of Region** Hancock County

**Regional Population** 6,663 (1993)

**Regional Area** 222.3 square miles

**Table I-1  
Average Population Density**

<b>Hancock County</b>	<b>Area (Sq. Miles)</b>	<b>Population</b>	<b>Avg. Density Population/sq.miles</b>
<b>Regional Total</b>	<b>222.3</b>	<b>6,663</b>	<b>30</b>

**Table I-2**

**Distribution of the Total Regional Population by Urban and Rural Areas  
(1993 Projection)**

Hancock County	Urban		Rural	
	Population	%	Population	%
<b>Regional Total</b>	0	0	6,663	100

**Table I-3**

**DISTRIBUTION OF TOTAL REGIONAL 1990 POPULATION BY SEX AND AGE**

Age	Total	Male	%	Female	%
0 - 4	412	204	49	208	50.5
5 - 17	1289	674	52.3	615	47.7
18 - 44	2560	1309	51.1	1251	48.9
45 - 64	1420	700	49.3	720	50.7
65+	1058	433	40.9	625	59.1
Regional Total	6,739	3,320	49.3	3,419	50.7

Source: 1990 Census

**Table I-4**

**DISTRIBUTION OF REGIONAL 1990 POPULATION BY EDUCATION (AGE ≥  
25)**

Hancock County	Number	%
Less than 9th Grade	1823	41.5
9th - 12 th Grade, no diploma	706	16.1
High School Graduate	1187	27.1
College (1 - 4)	594	13.5
Post Graduate/ Professional (>4)	79	1.8
Regional Total	4,389	100

Source: 1990 Census

**Table I-5  
DISTRIBUTION OF REGION BY TYPE OF HOUSING AND OCCUPANCY IN  
1990**

Hancock County	Total Persons	Occupied	Owner	Rented
<b>Single Family</b>				
1, Detached	4991	2179	3968	976
1, Attached	72	32	52	20
<b>Mult-Family 2</b>	27	14	4	23
3 - 4	163	84	7	156
5 - 9	76	30	11	65
10 - 19	35	14	3	32
20 - 49	0	0	0	0
50 or more	0	0	0	0
Institutional	163	--	--	--
Mobile Home/Trailer	1165	498	1003	162
Other	89	39	55	34
<b>Regional Total</b>	6781	2890	5103	1468

Source: 1990 Census

Note: Total Number of Households in Region is 2,484 (1993 Estimate).

**Table I-6  
REGIONAL POPULATION PROJECTIONS**

Hancock County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<b>Regional Total</b>	6,638	6,614	6,589	6,564	6,540	6,515	6,419	6,453	6,428	6,403

Source: University of Tennessee, Department of Sociology, November 17, 1992.

Note: Region Population 1993 is 6,663

Projected regional population data do not show any unusual trends which would affect waste generation rates in the region. Planned system components will be adequate to manage population projections for the planning horizon.

## B. ECONOMIC ACTIVITY

Basic economic information for the region is contained in the tables below.

**Table I-7  
BASIC ECONOMIC INFORMATION FOR THE REGION OF HANCOCK COUNTY**

Hancock County	1993 Population	MSA County (yes/no)	Total Employment <sup>1</sup>	Total Earnings <sup>1</sup>	Per Capita Income <sup>1</sup>	% Population Below the Poverty Line <sup>2</sup>
<b>Regional Total</b>	6,663	No	2,265	\$60,600,000	\$8,996	33.9

Source: <sup>1</sup> Bureau of Economic Analysis, U.S. Dept. of Commerce, 1991  
<sup>2</sup> University of Tennessee, Dept. of Sociology, November, 1992

**Table I-8  
TOTAL NON-AGRICULTURAL EMPLOYMENT BY SECTOR AND % OF TOTAL EMPLOYMENT (1990)**

Hancock County	Manufacturing	Construct.	Trade	Finance	Service	Govt.	Trans./Pub. Utilities
<b>Regional Total</b>	704	151	241	35	475	406	89
%	34.8	7.5	11.9	1.7	23.5	20.1	4.4

Source: 1990 Census

**Table I-9  
AGRICULTURAL EMPLOYEES (1990)**

Hancock County	Employment
<b>Regional Total</b>	988

**Table I-10**  
**EMPLOYERS BY INDUSTRY**  
 County: **Hancock** Population: **6,663**

Firms by Employment Size Class										
Industry	All Firms	1-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1000 +
Ag. Services, Forestry, Fisheries	0									
Mining	1	1								
Construction	6	4		1	1					
Manufacturing	4	2				2	1			
Transportation, Communication, Utilities	3	1		1	1					
Wholesale Trade	5	4	1							
Retail Trade	23	17	3	2	1					
Finance, Insurance, Real Estate	4	2		2						
Services	17	13		2	2					

Source: U.S. Dept. of Commerce, County Business Patterns, 1991, Tennessee

**Table I-11**  
**REGIONAL SUMMARY OF INSTITUTIONS HOUSING MORE THAN 100 PERSONS**

Hancock County	Total Number of Institutions	Total Number of Students Prisoners/Residents	Estimated Quantity of Waste Generated
Regional Total	1	avg. 99 / 67 beds	N/A

*\*Actual data collected from institutions during planning process.*

**Table I-12**  
**SUMMARY DATA ON MAJOR HEALTH CARE FACILITIES (LARGER THAN 50 BEDS)**

Hancock County	No. of Facilities	No. of Beds	Infectious Waste Management		Est. Quantity of SW Generated
			On Site/Offsite	Type Treatment	
Regional Total	None				

*\*Actual data collected from institutions during planning process.*

**Table I-13  
SOURCES OF LOCAL REVENUE UTILIZED**

<b>Hancock County</b>	<b>Property Tax</b>	<b>Local Sales Tax</b>	<b>Wheel Tax</b>	<b>Local Waste Collection Fee</b>	<b>User Fee/ Tipping Fee</b>	<b>Other*</b>
<b>Regional Total</b>	\$541,485	\$196,831	Yes*	None	None	None

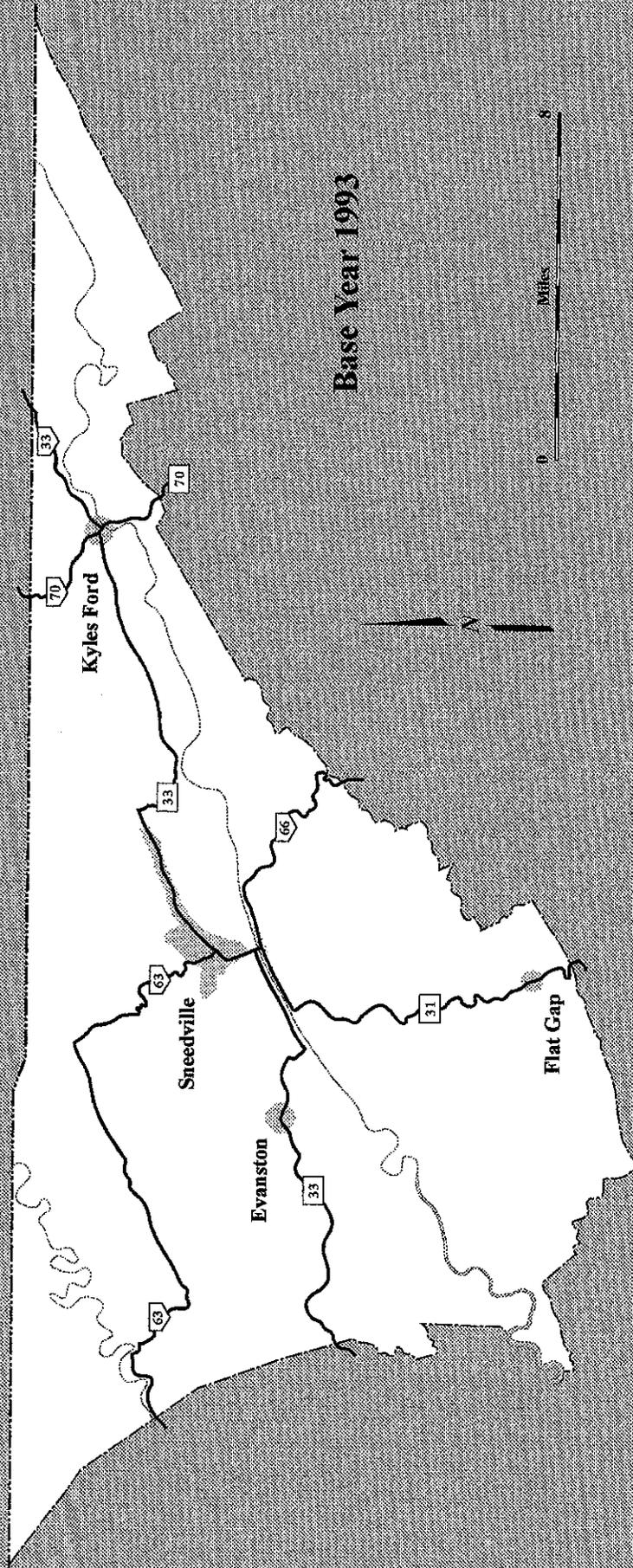
\*Wheel tax revenue is not utilized for solid waste

**Table I-14  
SUMMARY OF ASSESSED PROPERTY VALUES AND REVENUES**

<b>Hancock County</b>	<b>Total Assessed Property Value</b>	<b>Total Property Tax Revenue</b>	<b>Total Sales Subject to Sales Tax</b>	<b>Total Local Sales Tax Revenue</b>	<b># Reg. Vehicles</b>	<b>Total Wheel Tax Revenue</b>
<b>Regional Total</b>	\$32,836,606	\$59,762,623	NA	\$196,831	NA	None

*Source: Tennessee Department of Revenue*

# Hancock County Base Map



Base Year 1993

source: Hancock County Solid Waste Board

**ANALYSIS OF THE CURRENT SOLID WASTE  
MANAGEMENT SYSTEM FOR THE REGION**

**Statutory Requirements:**

**"...(E)ach plan submitted by a municipal solid waste region shall include the following:... (2) a current system analysis of: (A) waste streams, including data concerning types and amounts generated; (B) collection capability, including data detailing the different types of collection systems and the populations and areas which receive and do not receive such services; (C) disposal capability, including an analysis of the remaining life expectancy of landfills or other disposal facilities; (D) costs, using a full-cost accounting model developed by the State Planning Office; including costs of collection disposal, maintenance, contracts, and other costs; and (E) revenues, including cost reimbursement fees, appropriations, and other revenue sources." [T.C.A. Section 68-31-815 (b)(2)]**

*Data supporting this chapter is displayed in the Hancock County Needs Assessment prepared for the county as a part of the District Needs Assessment.*

**A. WASTE STREAM CHARACTERIZATION**

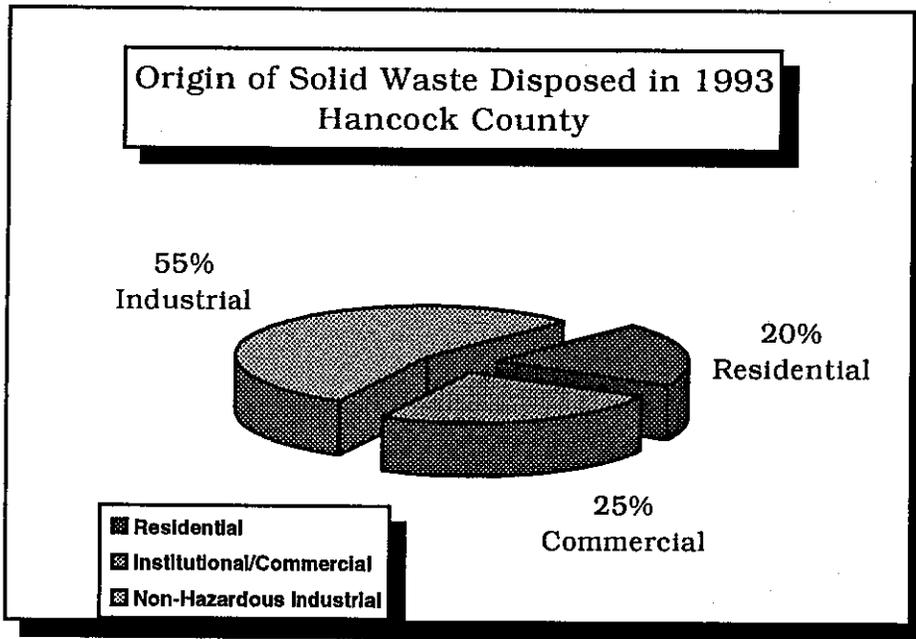
There has never been a detailed solid waste characterization study conducted in Hancock County, although the rural nature of the area makes it certain that yard waste comprises much less than the 17.6% indicated in the national figures. However, without supporting data the characterization of the Hancock County waste stream is calculated as instructed by the guidelines according to national figures.

Potential waste is calculated based on 4.5 lb per person per day generation as outlined in the UT Report - Managing Our Solid Waste. Illegal dumping is a problem. A study is currently underway by the Clinch-Powell Resource Conservation and Development Council which will catalogue dumps by location, size and age and then analyze through use of a Geographic Information System. A UT Geography graduate student is conducting the study. Results will help the region to manage and combat illegal dumping.

There are no special conditions that are expected to affect the composition of the solid waste stream in the region during the planning horizon.

**Table II-1  
QUANTITY OF SOLID WASTE RECEIVED FOR DISPOSAL IN CALENDAR  
YEAR 1991**

Hancock County	Tons Disposed	Population (1993)	Waste Disposed Per Capita
<b>Regional Total</b>	<b>2,598</b>	<b>6,739</b>	<b>0.39 tpy</b>



**Table II-3  
ACCEPTANCE OF CERTAIN CATEGORIES OF SOLID WASTE FOR  
DISPOSAL**

Hancock County Sanitary Landfill	Yard Waste (Clippings leaves-grass)		Sewage Sludge		Construction Demolition		Tires*		White Goods+	
	Y/N	Qty	Y/N	Qty	Y/N	Qty	Y/N	Qty	Y/N	Qty
<b>Regional Total</b>	Y	3 tpy	N	0	Y	5 tpy	Y	3 tpy	N	recycled

Source: 1990 Hancock County District Needs Assessment

\*Shredded tires only

+White Goods - discarded major appliances, etc.

**Table II-4  
DESCRIPTION OF THE WASTE STREAM BY MATERIALS**

<b>Waste Category</b>	<b>National %</b>	<b>Calculated Regional Tons</b>
Paper & paperboard	40.0	1,040
Glass	7.0	182
Ferrous Metals	6.5	169
Aluminum	1.4	36
Other Non-Ferrous Metals	0.6	16
Plastics	8.0	208
Rubber & Leather	2.5	65
Textiles	2.1	55
Wood	3.6	94
Food Waste	7.4	192
Yard Waste	17.6	458
Misc. Inorganic Waste	1.5	39
Other	1.7	44
<b>TOTAL MUNICIPAL SOLID WASTE</b>	<b>100.0</b>	<b>2,598</b>

Source: 1990 Hancock County District Needs Assessment

Comments:

Calculated amounts are inaccurate since 60% of waste in fill is sawdust from one industry which has since stopped hauling to fill. Yard waste is much lower than national average in this country.

**Table II-5  
\*UNMANAGED WASTE**

<b>Hancock County</b>	<b>Potential Waste Generation 1991 tpy**</b>	<b>Actual Waste Disposed 1991 tpy</b>	<b>Unmanaged Waste 1991 (potential/actual) tpy</b>	<b>Percent of Potential Total</b>
<b>Regional Total</b>	<b>5,472</b>	<b>2,598</b>	<b>2,872</b>	<b>52.48%</b>

\*Wastes that are "outside" the collection system such as materials in roadside dumps, litter, etc.

\*\*Potential waste calculated at 4.5 pounds/person/day as outlined in UT Report *Managing Our Waste*.

\*\*Documented as diverted through recycling and diversion.

Illegal dumping is a problem. A study is currently underway by the Clinch-Powell Resource Conservation and Development Council which will catalogue dumps by location, size and age and then analyze through use of a Geographic Information System. A UT Geography graduate student is conducting the study. Results will help the region to manage and combat illegal dumping. The dumping problem is aggravated by citizens from

Kentucky and Virginia bringing their waste into Hancock County and dumping it.

There are no special conditions that are expected to affect the composition of the solid waste stream in the region during the planning horizon.

## **B. WASTE COLLECTION AND TRANSPORTATION SYSTEMS**

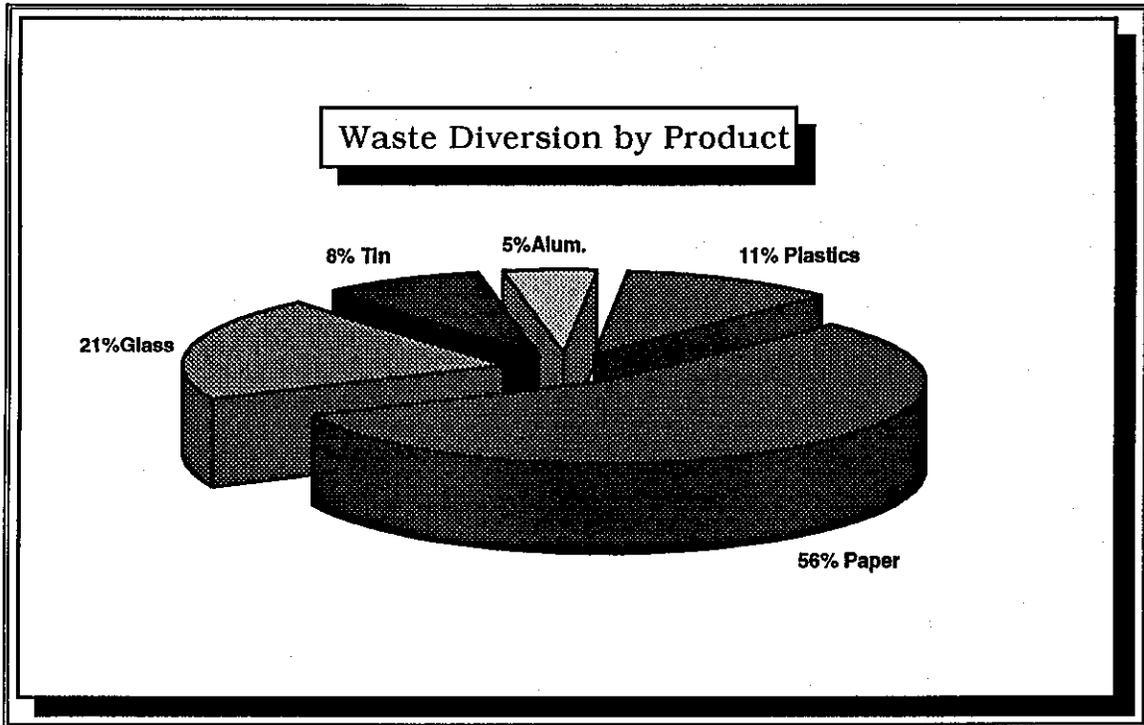
Detailed information on the existing collection services and facilities can be found in the County Profile of the District Needs Assessment, Chapter V. A.1-18.

The city of Sneedville currently offers household pick up on a subscription basis and then transports waste to a landfill in Hawkins County. The county currently has a convenience center under construction. The present operation consists of a roll off open top container provided to collect household waste from residents. The county then hauls the container to a landfill in Hawkins County.

The entire county outside of the city limits is currently underserved by waste collection; however, the county is in the process of setting up a house-to-house collection system which will adequately manage and control the waste stream in the county. When the county begins collection, the city plans to cease collection and go out of the garbage business. The city has operated at a loss for at least the last two years.

## **C. SOURCE REDUCTION AND RECYCLING SYSTEMS**

The region of Hancock County had a volunteer run and operated drop off recycling center located in Sneedville until July 1, 1994. This was a multi-materials collection operation accepting glass (brown & clear), paper, plastics (1 & 2), aluminum, steel cans and cardboard. The materials were collected in 55 gallon drums and transported to Claiborne County for sale and processing. The school system cooperates in a recycling program where wire mesh baskets were placed outside the school buildings for drop off of plastics, aluminum and steel cans. These materials are transported to Claiborne County with transportation supported by the litter fund. The mesh bins and custom trailer were provided through a grant from TVA and Powell Valley Electric Cooperative.



*Note: Percentages displayed reflect total of 15.84 tpy diverted.*

**D. WASTE PROCESSING, COMPOSTING, AND WASTE-TO-ENERGY/INCINERATION SYSTEMS**

There are no waste processing, composting or incinerators in the region.

**REGIONAL SUMMARY: FACILITIES**

**Table II-6  
OPERATING AND PLANNED COMPOSTING FACILITIES IN THE REGION**

	Hancock County	Facility Location	Tons of Waste Processed/Yr	Composted Materials		
				Yard Waste	Sewage Sludge	Solid Waste
<b>Existing:</b>	N/A					
<b>Planned:</b>	NONE					
<b>Regional Total</b>						

**Table II-7  
MUNICIPAL SOLID WASTE WASTE-TO-ENERGY FACILITIES IN THE REGION**

**Operating Facilities**

Hancock County	Facility Location	Design Capacity tons/year	*Current Use tons/year	Anticipated Operating Life of Facility
None				

**Planned Facilities**

Hancock County	Facility Location	Design Capacity tons/year	Current Use tons/year	Anticipated Operating Life of Facility
<b>Regional Total</b>	None			

**E. DISPOSAL FACILITIES - LANDFILLS**

There is no operating landfill or balefield in Hancock County and there are no plans to construct one.

**Table II-8  
EXISTING MUNICIPAL SOLID WASTE LANDFILLS IN THE REGION**

Hancock County	Name of Landfill	Location	Permitted Capacity (Acres)	Current Rate of Waste Accepted (tons/day)	Remaining Capacity (tons)*
None					

**Table II-9  
EXISTING LANDFILLS EXPECTED TO CLOSE BEFORE 2003**

Hancock County	Location	Current Use (Tons/Day)	Current Annual Use (Tons/Year)	Anticipated Date of Closure
No Landfill				

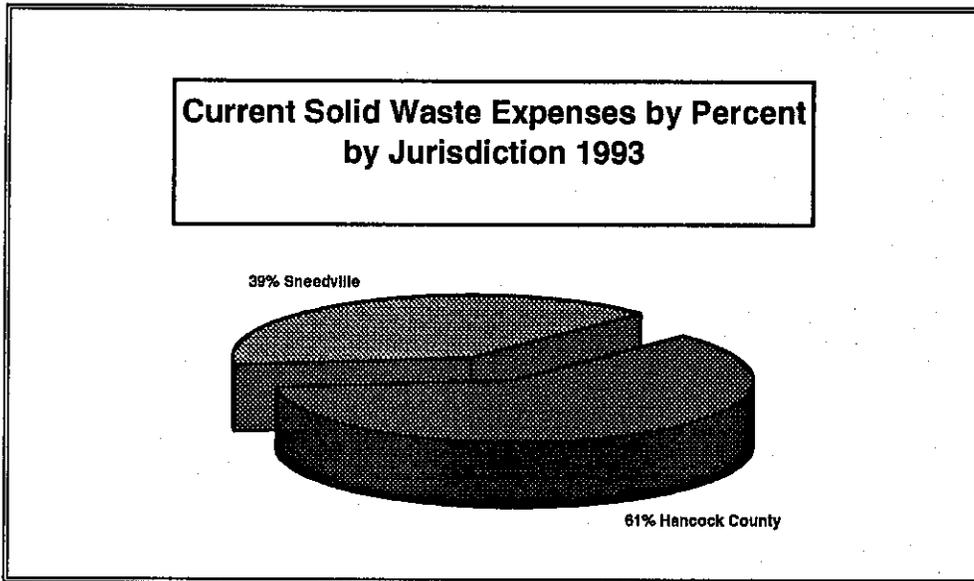
**Table II-10  
PLANNED EXPANSIONS AND PLANNED NEW FACILITIES  
WHICH WILL OPERATE FOR TEN YEARS OR MORE**

Hancock County	Proposed Facility		Location	When Will Capacity be Available	Permitted Capacity Sought (acre)	Design Rate of Waste (tpd) Disposed	Potential Expansion Yes/No
	Expan	New					
No Landfill Planned		None					

**Table II-11  
TOTAL EXISTING AND PLANNED CAPACITY IN THE REGION AT THE  
CLOSE OF THE NEXT TEN YEARS**

Year	TONS		
	Existing	Planned	Total
FY 1993	None	None	None
FY 1994	None	None	None
FY 1995	None	None	None
FY 1996	None	None	None
FY 1997	None	None	None
FY 1998	None	None	None
FY 1999	None	None	None
FY 2000	None	None	None
FY 2001	None	None	None
FY 2002	None	None	None
FY 2003	None	None	None

**F. COSTS OF THE CURRENT SYSTEM**

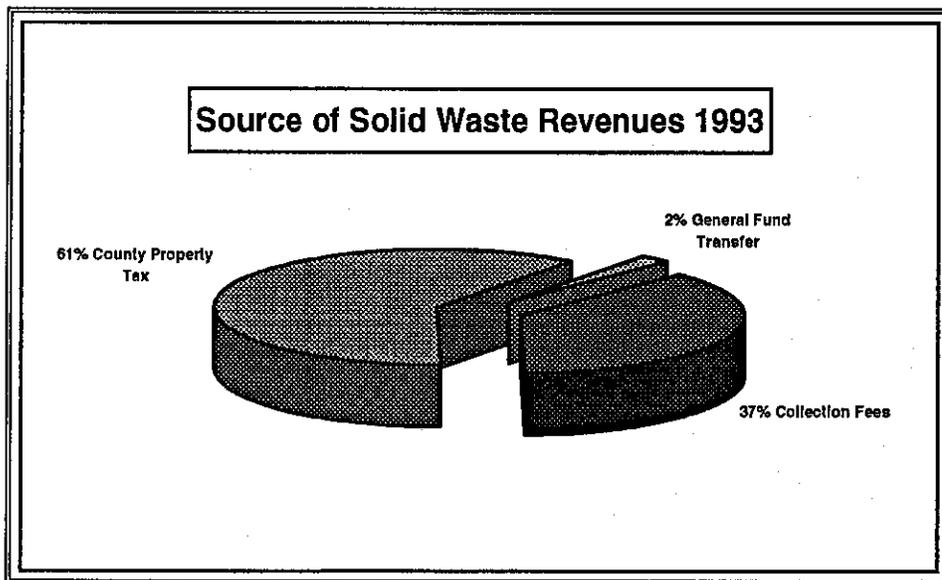


The costs and revenues of the total current system are displayed in the table on the following page.

**REGIONAL SUMMARY OF CURRENT SYSTEM COSTS AND REVENUES  
1993**

Region of Hancock County	County	Sneedville	Total
<b>EXPENSES</b>			
Collection & Transportation			
Publicly-Owned	0	38,416	38,416
Privately Contracted	0	0	0
Problem Wastes	0	0	0
Composting	0	0	0
Processing/Handling	0	0	0
Recycling	0	0	0
Disposal	0	0	0
Tipping Fees	59,410	0	59,410
Landfill Operation	0	0	0
<b>TOTAL</b>	<b>\$59,410</b>	<b>\$38,416</b>	<b>\$97,826</b>
<b>REVENUES</b>			
Tipping Fees (\$24.85/ton)	0	0	0
County Property Taxes	59,410	0	59,410
General Fund Transfers	0	1,984	1,984
Collection Fees (varies)	0	36,432	36,432
<b>TOTAL</b>	<b>\$59,410</b>	<b>\$38,416</b>	<b>\$97,826</b>

**G. REVENUES**



## **H. PUBLIC INFORMATION AND EDUCATION**

Solid waste education efforts are coordinated and carried out primarily by Partners for Clean Communities Keep America Beautiful System and the Clinch-Powell Resource Conservation and Development Council as identified in the Needs Assessment. Partners KAB was certified as the first regional KAB in the nation in September 1992. They conduct a variety of programs focused on all segments of the population. Specific activities will be discussed in detail in Chapter IX.

The Hancock County Litter Grant is administered by the County Sheriff's Office. In 1993, the state stipulated that a portion of that grant be used for education focused on litter and solid waste handling. Schools are identified on the base map at the end of this chapter.

## **I. PROBLEM WASTES**

Except for waste tires, no information concerning problem wastes was collected during the Needs Assessment. There are currently no collection facilities for waste tires, waste oil or household hazardous waste. However, a household hazardous waste collection day is scheduled for April 1995. An analysis of existing solid waste management practices for all problem wastes will be discussed in Chapter X.

## **J. SYSTEM MAP FOR BASE YEAR (1993)**

A map showing requested information is displayed at the end of this chapter. Included are:

1. Current convenience center sites.
2. House-to-house collection service and recycling collection areas.
3. Transportation routes.
4. Recycling processing sites.
5. Educational program sites.

## **K. STRENGTHS AND WEAKNESSES OF EXISTING SYSTEM**

Analysis of the current solid waste infrastructure reveals several strengths and weaknesses.

### **Strengths**

The major strengths of the current system are that the local governments have realized that an integrated, comprehensive approach is necessary to take care of Hancock County's solid waste management needs. The county commission has analyzed the conditions and is making commitments to institute a system which meets and exceeds requirements of the 1991 Solid Waste Management Act, and is in the best interests of all citizens. The dedication of the Solid Waste Management Planning Board is another true strength of the Hancock County existing system. In addition, the county has

already purchased two trucks, a baler and a compacter for use in the convenience center that is under construction.

### **Weaknesses**

The existing system has several weaknesses. There is no collection system which serves all of the citizens. The recycling program is inadequate to serve all citizens. There is no collection for problem wastes. There is no arrangement for long term disposal of wastes. There is inadequate funding. There is no current organizational structure suitable to carry out the comprehensive solid waste management system described in this plan.

The major **NEEDS** as identified by the Solid Waste Planning Board are:

1. Develop a plan which will meet regulations and provide needed services at the least cost possible.
2. Develop and install a regional collection and recycling infrastructure.
3. Expanded solid waste education program.
4. Assure disposal capacity.
5. Analyze operations for cost effectiveness.
6. Combine fragmented solid waste services under one oversight group.

The regional **PLANNING GOALS** are to:

1. Develop an implementation plan for comprehensive, integrated waste management which serves the best interest of all Hancock Countians, is practical, financially responsible and also meets state regulations.
2. Provide adequate collection of municipal solid waste from citizens through house to house pickup.
3. Plan for 10 year disposal (landfill) capacity to serve Hancock Countians and provide for economic growth and expansion.
4. Reduce waste by 25% through recycling, waste reduction, reuse and responsibility.
5. Educate children, adults, business, industry, and government sectors on proper solid waste management including financial and environmental impacts.
6. Deal with problem wastes adequately.
7. Minimize illegal dumping.

The current system in the Hancock County region is not integrated. The County Executive oversees hauling waste from open top container to landfill in Hawkins County. The city of Sneedville collects and hauls their waste directly to the Hawkins County landfill. The Sheriff's department oversees the litter grant program. Partners for Clean Communities primarily conducts the education program. A volunteer has run and operated the recycling center. The Solid Waste Planning Board has prepared the plan. There is a need to integrate these services and activities through a central solid waste authority.

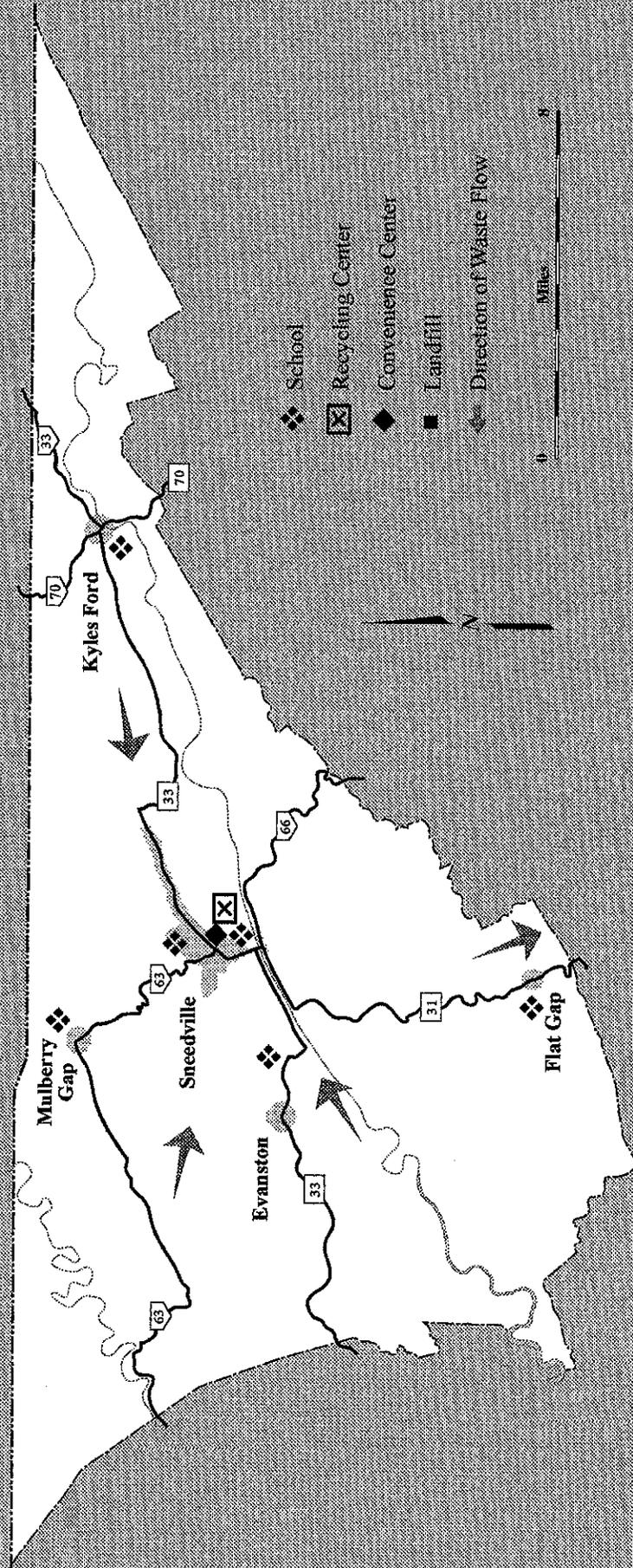
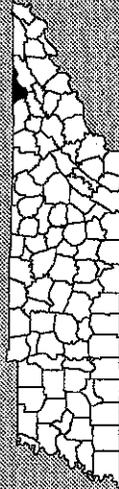
Implementation of this Plan will require coordination, oversight, monitoring and supervision. Stringent regulations will require trained staff, experienced in working with details, mandates, and complex issues. It will require coordination of collection, transportation, disposal, recycling, reduction

and education programs. It will require completion of frequent detailed reports on every component of the plan and an annual report of implementation and revision.

Mandates will best be met and costs controlled by reorganization of the current Solid Waste Planning Board into an organization structured to carry out the required Ten Year Solid Waste Management Plan and solid waste activities in the most cost effective and efficient manner.

Upon adoption of this Ten Year Municipal Solid Waste Management Plan the Hancock County Solid Waste Authority will be created and be composed of five members. Two members will be county commissioners and three will be members at-large. The Solid Waste Planning Board will serve in an advisory capacity but powers and responsibilities of the planning board will be transferred to the Authority. The Solid Waste Authority will set policy and provide direction and general oversight of all solid waste management components in the county under the broad categories of Disposal, Collection, Waste Reduction and Education. Day to day program management, program supervision and responsibility will fall to a solid waste director who will be responsible for solid waste disposal, collection, waste reduction and education in the region of Hancock County.

# Hancock County Current Solid Waste System



Base Year 1993

source: Hancock County Solid Waste Board

**CHAPTER III**

**GROWTH TRENDS, WASTE PROJECTIONS  
AND PRELIMINARY SYSTEM STRUCTURE**

**Statutory Requirements**

"...(E)ach plan submitted by a municipal solid waste region shall include... anticipated growth trends for the next ten-(10) year period...and anticipated waste capacity needs." [T.C.A. Section 68-31-815(b)(4) and (5)]

The County Profile data from the District Needs Assessment, Chapter IV., A(1) through (7) and was reviewed and information updated with projections made through 2003 as instructed.

**A. REGIONAL DEMANDS/SUPPLY**

**Table III-1**

**1993 TPY PER CAPITA GENERATION**

Hancock County	Total Waste Disposed (Generated) in FY 1993	Population 1993	Annual Per Capita Generation Tons/Person/Year
<b>Total</b>	5472	6663	0.82

Source: 1992 Hancock County District Needs Assessment and current study data..

Summarized below is the projected quantity of solid waste requiring disposal (generation) in the region in each projected year, adjusted for population changes.

**Table III-2**

**QUANTITY OF SOLID WASTE REQUIRING DISPOSAL (TONS PER YEAR)  
ADJUSTED FOR POPULATION CHANGES**

Hancock County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<b>Total</b>	5472	5452	5432	5412	5392	5372	5352	5332	5312	5392

Source: Based on population figures from University of Tennessee, Department of Sociology, November 17, 1992 and calculated tpy based on actual generation.

Summarized below are the projected quantity of solid waste requiring disposal in the region for each projection year, adjusted for population growth and economic growth.

**Table III-3**

**QUANTITY OF SOLID WASTE REQUIRING DISPOSAL (IN TONS)  
ADJUSTED FOR POPULATION AND ECONOMIC GROWTH**

Hancock County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<b>Total</b>	5482	5462	5442	5422	5402	5382	5362	5342	5322	5302

Summarized below are the projected quantities of solid waste requiring disposal (= generation) for each projection year, adjusted for population growth, economic growth, and source reduction, recycling and industrial process change.

**Table III-4**

**QUANTITY OF WASTE REQUIRING DISPOSAL (IN TONS) ADJUSTED FOR  
POPULATION CHANGES, ECONOMIC GROWTH, AND WASTE REDUCTION  
AND RECYCLING**

Hancock County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<b>Total</b>	5208	4643	4081	4067	4052	4037	4022	4007	3992	3977

Below is a summary table indicating projected quantities of solid waste which will require collection and disposal in each projection year, after adjustment for all applicable factors.

**Table III-8**

**ANNUAL PROJECTIONS OF SOLID WASTE REQUIRING DISPOSAL  
ADJUSTED FOR ALL APPLICABLE FACTORS (IN TONS/YEAR)**

Hancock County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<b>Total</b>	5208	4643	4081	4067	4052	4037	4022	4007	3992	3977

**B. PRELIMINARY SYSTEM DESIGN**

During the planning process, a variety of integrated management processes were considered including Class I and IV landfilling, recycling, convenience centers, transportation options, private vs public management, transfer stations, house to house collection and a variety of different budgeting and financing scenarios.

Following is a short description of the selected components of an integrated system. Further discussion and analysis will occur in the following chapters.

### **Collection**

The region plans to institute house to house collection of residential waste. This will be a mandatory service with all households in the county required to pay a monthly solid waste fee to cover collection and disposal. Waste will be collected in 10 cu. yd. compactor trucks which will transport to a convenience center. The trucks will also service commercial and industrial customers and charge by volume. The city of Sneedville will cease residential pickup when the county begins collection. A convenience center is being constructed in Sneedville to collect transported municipal waste. The convenience center will have a roll off compactor design with an open top for bulky waste.

### **Waste Reduction**

Recycling will be provided in the form of a drop off center at the convenience center. The center will have some processing equipment (at least a baler), and some storage. The current drop off locations at the schools will continue, with materials being brought to the convenience center sorted, and then taken on to Dave's Recycling in New Tazewell. Commercial and industrial producers will also be encouraged to bring recyclables to the center.

### **Disposal**

The region will continue to export waste to a landfill outside the region. No contract or agreement has been signed as yet, however, the BFI owned Carter Valley Landfill has submitted a written proposal for accepting Hancock County waste at \$25.00/ton. There is no plan to construct a landfill in Hancock County.

## **C. EVALUATION CRITERIA FOR THE REGION**

The Solid Waste Planning Board carefully evaluated system components and design to insure adequate service and cost effectiveness. They analyzed institutional compatibility; number and size of facilities needed to meet defined regional needs; evaluation of regional markets for recovered materials, capital and annual operating costs; unit costs; siting and regulatory requirements; environmental impacts and public acceptance.

**Statutory Requirements:**

**"The goal of the state is to reduce by twenty-five percent (25%) the amount of solid waste disposed of at municipal solid waste disposal facilities and incinerators, measured on a per capita basis within Tennessee by weight, by December 31, 1995." [T.C.A. Section 68-31-861(a)]**

**"...[E]ach plan submitted by a municipal solid waste region shall include...a description of waste reduction activities designed to attain the twenty-five percent (25%) reduction required by Section 25(a) [T.C.A. Section 68-31-861(a)]; and Section 14(b)10. [T.C.A. Section 68-31-815(b) (10)].**

**"A county or region shall have the flexibility to design its own plan and methods which take into account local conditions for attaining the waste reduction goal set by this section. This plan shall be included as a part of the county or regional plan required by Section 13 of this act." [T.C.A. Section 68-31-861(f)]**

**A. ESTABLISHING A BASE YEAR QUANTITY****TABLE IV-1****POPULATION AND QUANTITIES OF WASTE DISPOSED OF AT MUNICIPAL SOLID WASTE DISPOSAL FACILITIES IN 1991**

Hancock County	1991 Population	1991 Total Waste Disposed (Generated) in TPY	Waste Disposed Per Capita
Regional Total	6,714	2,600	.39

The calculated regional per capita waste disposal rate for the base year 1991 is calculated as follows.

Adjustment to 1991 Base Year Data

\*See Appendix B for adjustment to baseline data.

**TABLE IV-1A  
POPULATION AND QUANTITIES OF WASTE DISPOSED OF AT MUNICIPAL  
SOLID WASTE DISPOSAL FACILITIES AND INCINERATION IN 1993**

Hancock County	1993 Population	1993 Total Waste Disposed (Generated) in TPY	Regional Total
Regional Total	6,663	2,599	0.39

**B. CALCULATE A TARGET 1995 WASTE REDUCTION PER CAPITA DISPOSAL RATE**

The 1995 targeted 15% reduction\* in tpy is calculated as follows:

$$\begin{array}{l} \text{Average 1991 per capita rate} \times .15 = \text{Target 1995 per capita reduction} \\ \text{(tons/person/year)} \qquad \qquad \qquad \text{(tons/person/year)} \\ .39 \times .15 = \underline{\mathbf{.0585}} \end{array}$$

The 1996 targeted 25% reduction\* in tpy is calculated as follows:

$$\begin{array}{l} \text{Average 1991 per capita rate} \times .25 = \text{Target 1996 per capita reduction} \\ \text{(tons/person/year)} \qquad \qquad \qquad \text{(tons/person/year)} \\ .39 \times .25 = \underline{\mathbf{.0975}} \end{array}$$

\*this takes into account the adjustment to baseline granted by the state, (see appendix b).

The total quantity of waste in tons that must be reduced at the source, or diverted to alternative treatment options is calculated by multiplying the target 1995 per capita reduction rate by the regional population projection for 1995 (Chapter III, Table III-1, Column 2).

**TABLE IV-2  
ESTIMATED QUANTITIES OF WASTE REMOVED OR DIVERTED FROM THE  
WASTE STREAM (TPY)**

<b>Year</b>	<b>Recovered &amp; Recycled</b>	<b>Diverted to Alternative Disposal (Class IV)</b>	<b>Waste to Energy</b>	<b>Total</b>
1985 to 1989	0	0	0	0
1990	0	0	0	0
1991	4.43	0	0	4.43
1992	11.53	0	0	11.53
1993	22.85	0	0	22.85
1994	26.69	0	0	26.69
1995	400	0	0	400
Subtotal	465.5	0	0	465.5
1996	879	0	0	879
1997	879	482	0	1361
1998	879	482	0	1361
1999	879	482	0	1361
2000	879	482	0	1361
2001	879	482	0	1361
2002	879	482	0	1361
2003	879	482	0	1361
<b>TOTAL</b>	<b>7497.5</b>	<b>3374</b>	<b>0</b>	<b>10871.5</b>

\*Waste reduction in calander year 1997 reflects a two year extension because the county does not currently provide collection services.

**C. DESCRIBE HOW THE REGION WILL MEET THE STATEWIDE WASTE REDUCTION GOAL**

**SHORT-TERM GOAL** - Achieve the state mandated 25% waste reduction goal by 12/31/97\* through:

a. Source reduction: Pursue with a "buy recycled" and "preycling" focus with the private and public sectors. Sponsor workshops and encourage waste audits/reduction in the industrial/institutional/commercial sectors.

b. Recycling: Establish recycling drop off center for residential and commercial recyclables. Support and encourage use of schools recycling program.

\* Adjustment to baseline allows Hancock County to have until 12/31/97 to reduce wastes by 25% (see appendix B)

Some specific short term actions to be taken are:

1. Develop "buy recycled" and "precycled" campaign.
2. Network and encourage industry to conduct waste audits.
3. Establish recycling drop off center at convenience center to collect multi-materials.
4. Provide one collection site for scrap metal white goods to be recycled.
5. Provide one waste oil collection site.
6. Work with school system to increase usage of drop off recycling bins.
7. Collect data and prepare reports.
8. Revise plan in 1995.

**LONG-TERM GOAL** - Work toward increased waste reduction through:

a. Source reduction: Continue and expand short term programs. Institute an awards and recognition program. Aggressively monitor procurement practices and challenge business and industry to adopt source reduction policies. Expand aggressive education campaign targeted to industrial employees to help "close the loop."

b. Reuse: Based on research, develop potential for instituting or participating in a waste exchange.

c. Recycling: Expand and improve short term recycling programs. Investigate potential and develop a commercial recycling route for selected materials from small businesses. Research potential and possible end users and encourage process changes to strengthen markets. Seek markets for expanded materials.

Specific long term actions will be developed during the plan revision in 1995.

**TABLE IV-3**  
**\*1996 PLANNED WASTE REDUCTION BY MATERIAL (TPY)**

Year	Glass	ONP	Alum.	Ferrous Metals	Plastics	OCC	Wood Waste	Oil	Textiles	Total
1996	4.24	18.9	1	3.15	2.8	.58	0	0	0	30.67

\*Note: Hancock County has no collection system and holds a 25% reduction variance until 1996.

**TABLE IV-4  
PLANNED WASTE REDUCTION BY ECONOMIC SECTORS AND YEAR**

<b>Year</b>	<b>Residential Waste Reduction (Recycling &amp; Diversion)</b>	<b>Commercial/Industrial Waste Reduction (Recycling &amp; Diversion)</b>	<b>Total</b>
1993	22.85	0	22.85
1994	26.69	0	26.69
1995	80	320	400
1996	340	1021	1361
1997	340	1021	1361
1998	340	1021	1361
1999	340	1021	1361
2000	340	1021	1361
2001	340	1021	1361
2002	340	1021	1361
2003	340	1021	1361

**Strategies**

The strategy for reaching waste reduction goals has already been set in motion. Recycling drop off containers have been placed at schools for community recycling. A baler has been purchased for processing recyclables at the convenience center when construction is complete. Support and encouragement will play an important part in increasing waste reduction in the commercial, industrial and institutional sector. An aggressive education program is critical to the success of the waste reduction plan and is discussed in Chapter IX.

Collected recycled materials will be processed and marketed at Dave's Recycling (privately owned and operated) in New Tazewell. The region will join the Recycling Marketing Cooperative for East Tennessee for additional marketing of collected materials.

Whole tires and batteries will be banned from disposal mingled with municipal waste. Whole tires will be collected, stored at the convenience center, and will be periodically shredded. The planning board is in support with surrounding counties concerning the potential of attracting an end user for tires. Lead acid batteries are collected at retailers in the county.

There are no current or planned economic incentives or disincentives in the region although possibilities have been discussed if future conditions are conducive to adoption.

Source reduction, especially precycling, has been discussed and is a focus area in education programs. Quantification of this waste reduction

component is difficult. The region will prepare and seek approval of resolutions and ordinances by county and city governments to adopt recycled content resolutions for purchase of supplies.

**TABLE IV-5  
WASTE REDUCTION TARGET BY MATERIAL BY YEAR**

Year	Glass	ONP	Alum	Ferr. Metal	Plastics	OCC	Wood Waste	Oil	Textile	Total
1993	4	--	1.3	1.9	2.1	.5	--	--	--	22.85
1994	3.8	--	.87	2.7	2.4	.5	--	--	--	26.69
1995	40	40	40	50	30	200	--	--	--	400
1996	96.6	204	27	88.5	108.9	340	482	13.6	--	1361
1997	96.6	204	27	88.5	108.9	340	482	13.6	--	1361
1998	96.6	204	27	88.5	108.9	340	482	13.6	--	1361
1999	96.6	204	27	88.5	108.9	340	482	13.6	--	1361
2000	96.6	204	27	88.5	108.9	340	482	13.6	--	1361
2001	96.6	204	27	88.5	108.9	340	482	13.6	--	1361
2002	96.6	204	27	88.5	108.9	340	482	13.6	--	1361
2003	96.6	204	27	88.5	108.9	340	482	13.6	--	1361

**D. 10-YEAR STAFFING REQUIREMENTS, BUDGET, AND FUNDING PLAN**

Detailed staffing requirements, budget information and funding plan information can be found in related Chapters V and XI. Staff responsibility for waste reduction will be shared among programs: Recycling, Collection and Education.

**E. 10-YEAR IMPLEMENTATION SCHEDULE**

Program Item	Respon Organ. *	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Buy recycled campaign	PCC/KAB Region		x	x	x						
Promote/Conduct waste audits	Region		x	x	x						
Est. recycling center	Region	x	x								
Est. 1 white good site	Region		x								
Schools recycling program	Region Schools PCC	x	x	x							
Expand markets	Region Dave's RMCET		x	x	x						

Expand recy./diver survey	Region		X	X	X						
Data collection & reports	Region		X	X	X	X	X	X	X	X	X
Revise 10-year plan	Authority							X			

NOTE: "X" denotes milestone period and shading denotes on-going operation/emphasis of program item.

**F. RESPONSIBILITY FOR IMPLEMENTATION**

\*Responsible Party: PCC - Partners for Clean Communities Keep America Beautiful System; Region - Hancock County Solid Waste Board; Schools - Hancock County School Board; Dave's - Dave's Recycling; RMCET - Recycling Marketing Cooperative for East Tennessee

**G. DATA COLLECTION AND REPORTING**

The Hancock County Solid Waste Board will be the primary responsible party for collecting information, managing data and preparing and submitting reports to the state. The Board will be responsible for implementing and revising the plan.

## WASTE COLLECTION AND TRANSPORTATION

**Statutory Requirements:**

"...[E]ach plan submitted by a municipal solid waste region shall include...collection capability, including data detailing the different types of collection systems and the population and areas which receive and do not receive such services..." [T.C.A. 68-31-815(b)(2)(B)]; and "...as part of the local plan required by Section 13 of the Act, each county or multi-county municipal solid waste disposal region shall submit a plan for the adequate provision of collection services to the State Planning Office. Such plan shall identify unmet needs and shall be updated annually." [T.C.A. 68-31-851(b)]

**A. NUMBER, LOCATION AND DESIGN OF COLLECTION FACILITIES**

The collection system described in Chapter II currently includes no convenience centers. The state requires only one convenience center to adequately serve the area and population of the county (Convenience Center Rule, 1200-1-7). House to house collection is provided in the city of Sneedville. All areas outside the Sneedville city limits are underserved. There will be no underserved areas after establishment of the new center and implementation of house to house pickup.

**B. DEFINE REGIONAL NEEDS TO PROVIDE ADEQUATE SERVICE TO RESIDENTS**

**TABLE V-1  
PLANNED COLLECTION SYSTEM**

	Sneedville	County	Total
# Households	323	2,377	2,700

The planned system calls for one convenience center with a roll off compactor system. The center will also have open top containers for white goods and bulky items.

**Planned Transportation System**

All residential solid waste in the city and county will be collected by two 10 cu. yd. compactor trucks and transported to the convenience center where they will dump into the roll off compactor box. When full, the roll off box will be picked up by the roll off truck and transported to a landfill in Hawkins County for disposal.

**C. HOW REGION WILL MEET IDENTIFIED NEEDS WITHIN 10 YEARS**

**Collection Goals and Objectives**

- Adequately serve all citizens.
- Provide collection in the most cost effective and efficient manner.

**Unserved Areas** - Currently unserved areas in the region will be served by a house to house collection system. When implemented, there will be no underserved areas in the county.

**TABLE V-2  
TIMETABLE AND MILESTONES FOR CONVENIENCE CENTER, HOUSE TO HOUSE  
COLLECTION AND TRANSPORTATION OF WASTE**

1994-95	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June
Approve Budget		X										
Finalize Routes				X								
Public Ed. on news system						X	X	X				
Finish Conv. Center							X	X	X			
Hire and Train Employees								X	X			
Begin Pickup									X			
Monthly Billing									X	X	X	X
Register Convenience Center								X				
Apply for Convenience Center Grant								X	X			

**TRANSFER STATIONS AND/OR INTERMEDIATE PROCESSING FACILITIES**

There are no transfer stations or intermediate processing facilities planned.

**INTEGRATION OF THE COLLECTION SYSTEM WITH RECYCLING AND PROBLEM WASTE**

The convenience center will be a full service center to best meet the needs of citizens and state requirements. The center will:

- collect household/industrial/commercial waste
- have drop off containers for recyclables
- provide preliminary processing of recyclables
- have containers to collect scrap metals
- will have containers for bulky item collection
- waste oil collection bin

- be landscaped
- have collection area for waste tires
- be staffed with trained personnel to help citizens manage waste correctly

The collection system is integrated with recycling because there will be recycling drop off containers at the convenience center. Waste oil will be collected at the convenience center but will be serviced by a private company.

#### **D. 10-YEAR STAFFING AND TRAINING NEEDS**

Staffing and training will be displayed in an integrated manner in Chapter XI.

##### ***Staffing***

- 1 Solid Waste Manager
- 2 Truck Drivers
- 1 Billing Clerk (part time)
- 2 Work Release Inmates

##### ***Training***

Staff will need to be trained in the following:

- Separating recyclables.
- Quality control and monitoring recyclables.
- Identification and acceptance of wastes in a landfill.
- Working with public as point people in education and quality control.
- Keeping records of center attendance and usage.
- Operation and maintenance of compactor equipment.
- Knowledge of applicable laws, rules and regulations.
- Keeping site tidy, neat, pleasant and attractive.
- Maintaining fencing and landscaping.

Further training will be provided by the Department of Environment and conservation [T.C.A. Section 68-211-851(c)].

**E. 10-YEAR BUDGET**

**TABLE V-3  
10 YEAR WASTE COLLECTION AND TRANSPORTATION COSTS**

<b>Year</b>	<b>Capital Costs</b>	<b>County Annual Costs</b>	<b>Sneedville</b>
1994	\$80,000	\$14,625	\$38,000
1995	0	\$93,276.00	0
1996	0	\$114,025.23	0
1997	0	\$121,288.84	0
1998	0	\$128,798.68	0
1999	0	\$136,536.84	0
2000	0	\$144,510.62	0
2001	0	\$152,727.56	0
2002	0	\$161,195.44	0
2003	0	\$169,922.29	0

*NOTE: Annual costs reflect a 3.2% rate of inflation.*

**TABLE V-4  
10 YEAR WASTE COLLECTION AND TRANSPORTATION REVENUES**

<b>Year</b>	<b>County Taxes</b>	<b>Collection Fees</b>	<b>County Grants</b>	<b>Sneedville Taxes</b>	<b>Total</b>
1994	\$59,000	0	0	\$38,000	\$97,000
1995	\$59,000	\$226,800	\$50,000	0	\$335,800
1996	\$59,000	\$226,800	0	0	\$285,800
1997	\$59,000	\$226,800	0	0	\$285,800
1998	\$59,000	\$226,800	0	0	\$285,800
1999	\$59,000	\$226,800	0	0	\$285,800
2000	\$59,000	\$226,800	0	0	\$285,800
2001	\$59,000	\$226,800	0	0	\$285,800
2002	\$59,000	\$226,800	0	0	\$285,800
2003	\$59,000	\$226,800	0	0	\$285,800

**F. 10-YEAR TIMETABLE FOR IMPLEMENTATION**

**TABLE V-6  
10-YEAR IMPLEMENTATION SCHEDULE**

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Construct Center	*	*								
Design collection routes		*								
Purchase Trucks	*			*						
Begin house to house collect		*								
Train Conv. Center Staff		*								
Integrate Recycling Services		*								
Data Collection Annual Reports		*								
Plan Updates						*				

Financing for this system will come from monthly household solid waste fees and county taxes. The solid waste collection plan will be annually updated by the Region as required by T.C.A. 68-211-814. The annual update will consider:

- ◆ Survey of roadside dumps;
- ◆ Citizen complaints;
- ◆ Alternative systems available; and
- ◆ Volume of waste received or collected by the existing systems.

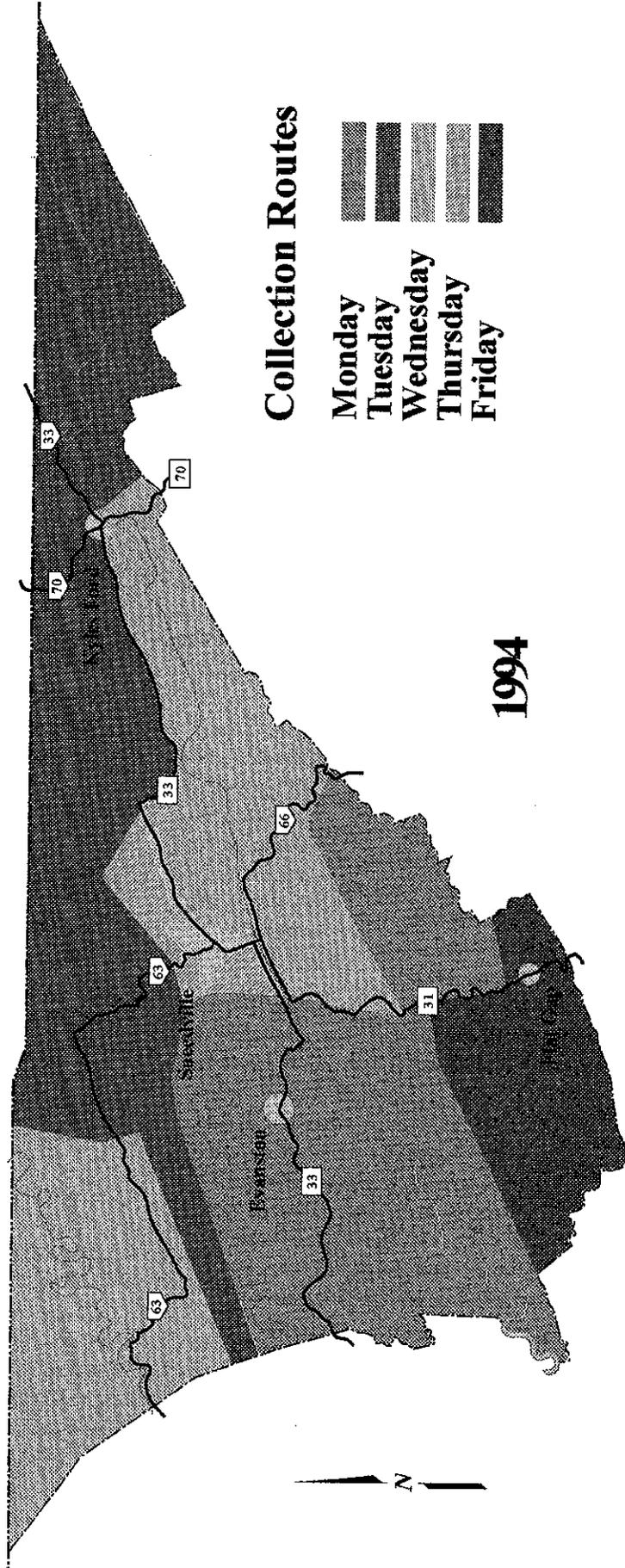
This evaluation report will be submitted to the Division of Solid Waste Assistance on July 1, 1995 and each year thereafter.

**G. NOT APPLICABLE**

**H. SYSTEMS MAP**

See Chapter XI.

# Hancock County Curbside Garbage Collection Program



source: Hancock County Solid Waste Board

0 8 Miles

**Statutory Requirements:**

**"...[E]ach plan submitted by a municipal solid waste region shall include...a recycling plan, including a description of current public and private recycling efforts and planned efforts to enhance recycling within the county or region." [T.C.A. 68-31-815(b)(7)]**

**and "Effective January 1, 1996, each county shall provide...one (1) or more sites for collection of recyclable materials..." [T.C.A. 68-31-863(a)]**

**"Each person or entity operating a collection site for recyclable materials shall annually report the quantities of recyclable materials collected, by type of material, to the region which shall then report...[this information]...to the State Planning Office." [T.C.A. 68-31-863(b)]**

**A. REGIONAL NEEDS FOR RECYCLING PROGRAMS, FACILITIES AND SERVICES**

The major need of the region is to develop and establish a recycling collection infrastructure. This includes setting up a drop off recycling center at the convenience center, promoting the program, processing materials, and finding markets for expanded materials recycling. Other needs are to encourage commercial recycling at the center.

**B. SPECIFICATIONS**

**Regional Goal** - Establish a recycling infrastructure designed to meet the 25% reduction goal and beyond.

**Objectives**

1. Establish drop off site for multi-materials recyclables at one convenience center.
2. Promote and expand usage of school based recycling drop off bins.
3. Collect scrap metal, tires and white goods at convenience center.
4. Establish a waste oil collection site at the convenience center.
5. Coordinate waste reduction audits for business, industry and institutions and actively encourage recycling by companies and employees.

6. Work through the Recycling Marketing Cooperative for East Tennessee for expanded marketing of materials.

7. Work with the state Office for Cooperative Marketing as information becomes available.

### ***Strategy for Expanding Recycling Collection***

Currently the only collection facility for recyclables is in small drop off bins at three schools in the county. This system has been temporarily suspended but will be reinstated when the convenience center is complete. The strategy for expanding collection is as follows:

Establish collection bins at the convenience center in Sneedville to collect aluminum, steel cans, #1 and #2 plastics, glass, cardboard, newspaper, mixed paper and waste oil from residential and commercial waste streams.

Establish processing capabilities at the center by installation of a baler and purchase and installation of a can crusher and a shed to collect and store materials before marketing.

### ***Collected Materials***

The county recycling program will begin by collecting the following materials.

- Aluminum
- Glass (2 colors); clear and brown
- Steel Cans
- Newspaper
- Cardboard
- Plastics (#1 & #2)
- Waste Oil
- White Goods
- Mixed Paper

The program will be expanded to collect the following material as capabilities and markets are expanded.

- Office Paper

### ***Program Description***

**Type of System** - The system will be a drop off system at convenience center and drop off sites at the county schools.

**Size of Program** - Program will serve 2,700 households which is 100% of the households in the region. The Commercial program will target and recruit 10 businesses to begin with and expand as capacity allows.

**TABLE VI-1  
ESTIMATED QUANTITY OF RECOVERED MATERIALS  
(TONS PER YEAR)**

<b>Year</b>	<b>Glass</b>	<b>ONP</b>	<b>Alum</b>	<b>Ferr. Metal</b>	<b>Plastics</b>	<b>OCC</b>	<b>*Wood Waste</b>	<b>Oil</b>	<b>Textile</b>	<b>Total</b>
1993	4	13	1.31	1.89	2.09	.52	--	--	--	22.81
1994	3.69	16.45	.87	2.74	2.43	.5	--	--	--	26.68
1995	40	40	40	50	30	200	--	--	--	400
1996	96.6	204	27	88.5	108.9	340	482	13.6	--	1361
1997	96.6	204	27	88.5	108.9	340	482	13.6	--	1361
1998	96.6	204	27	88.5	108.9	340	482	13.6	--	1361
1999	96.6	204	27	88.5	108.9	340	482	13.6	--	1361
2000	96.6	204	27	88.5	108.9	340	482	13.6	--	1361
2001	96.6	204	27	88.5	108.9	340	482	13.6	--	1361
2002	96.6	204	27	88.5	108.9	340	482	13.6	--	1361
2003	96.6	204	27	88.5	108.9	340	482	13.6	--	1361

**\*Wood waste is not handled/processed at the convenience center.**

**Service Area** - The service area will be the region of Hancock County.

**Description and Location of Collection Sites** - Please see map at the end of this chapter for location of sites. One site will be in the convenience center constructed to meet state requirements. Other sites will be at schools scattered across the county.

**Location and Description of Processing Center** - Intermediate processing of materials will be done at the recycling convenience center. Further processing and marketing will be done at Dave's Recycling in New Tazewell. See map at the end of this chapter for location of the recycling convenience center.

**Volume and Markets** - The small quantities collected from drop off sites will be combined and processed and primarily marketed at Dave's Recycling in New Tazewell. Dave's Recycling serves as a regional processing/market center for surrounding counties.

**Interaction with Office of Cooperative Marketing** - The region will submit reports to the OCM and is willing to cooperate in any other cost-effective marketing contracts arranged by the OCM.

**Expanding Markets** - A resolution will be prepared and adoption actively pursued for the county to adopt a "buy recycled content" policy for procurement. Similar ordinances will be pursued in the city. The potential for a waste exchange will be further evaluated and will be pursued if feasible. The region will work through the Recycling Marketing Cooperative for East Tennessee to actively seek expanded, stable and attractive markets for materials.

**Recycling Education** - Please see Chapter IX for integrated education program description.

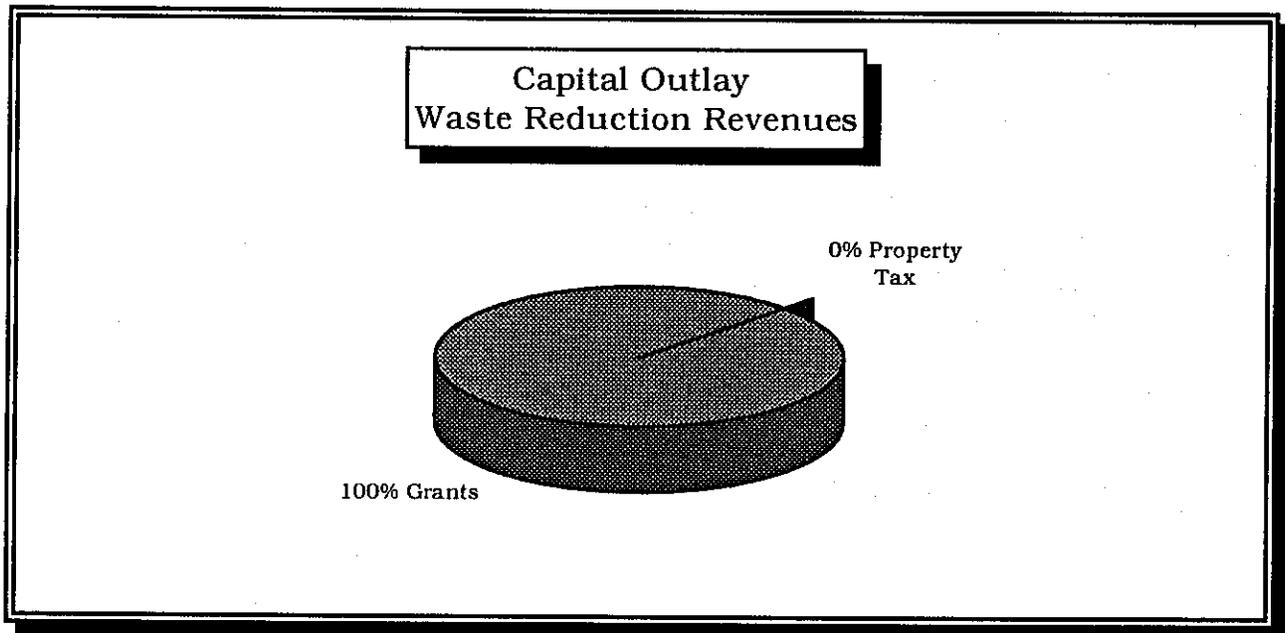
**Ten Year Staffing Plan -**

- Solid Waste Manager will serve as recycling coordinator
- Work release inmates will work in processing center sorting and processing materials.

**TABLE VI-2  
TEN YEAR BUDGET  
WASTE REDUCTION**

	Capital Outlay	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
					Annual Costs						
Waste Reduction	20,000	0	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000

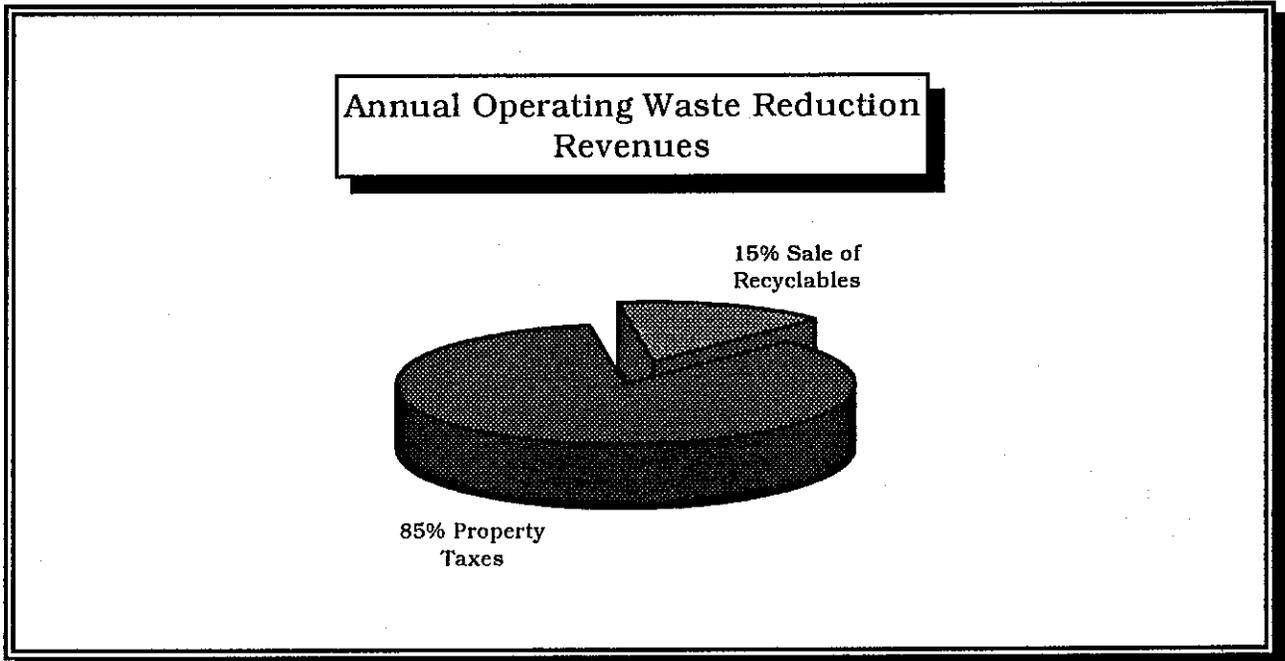
**FUNDING PLAN AND SOURCES OF REVENUES**



**TABLE VI-3  
WASTE REDUCTION COST BREAKDOWN**

	Capital Outlay	Grants	Annual Operating
Recycling drop off processing center convenience center.	\$20,000	\$20,000	
Schools drop off site	0	0	\$500
RM CET dues*	0	0	\$502
Operations**	0	0	0
Solid Waste Manager (half-time)	0	0	\$7,000
<b>TOTAL</b>	<b>\$20,000</b>	<b>\$20,000</b>	<b>\$8,002</b>

\* RM CET dues at full level. Dues will be phased in to this level over 4 years.



*Submitting Reports*

Required data will be collected, summarized, processed and submitted to the state by the solid waste manager.

**C. PUBLIC/PRIVATE SECTOR/NON-PROFIT COORDINATION**

Coordination between public/private sector has been discussed earlier in this chapter.

**D. TEN YEAR IMPLEMENTATION SCHEDULE**

**TABLE VI-4  
TEN-YEAR RECYCLING PROGRAM IMPLEMENTATION SCHEDULE**

Program Item	Respon Organ. *	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Buy recycled campaign	PCC		x	x	x						
Promote/Conduct waste audits	Authority		x	x	x						
Clothing collection sites	Authority		x								
Research waste exchange	RM CET		x	x							
Est. 7 recycling sites	Authority	x	x								
Est. 1 white goods sites	Authority		x								
One cardboard drop off	Authority		x								
Schools recycling program	Authority		x	x							
Expand markets	RM CET		x	x	x						
Hire recycling coordinator / solid waste manager	Authority		x								
Conduct recy./diver survey	Authority		x	x	x						
Data collection & reports	Authority		x	x	x	x	x	x	x	x	x
Revise 10-year plan	Authority							x			

*NOTE: "X" denotes milestone period and shading denotes on-going operation/emphasis of program item.*

**E. RESPONSIBILITY FOR IMPLEMENTATION**

\*Responsible Party: PCC - Partners for Clean Communities Keep America Beautiful System; Authority - Hancock County Solid Waste Authority; RM CET - Recycling Marketing Cooperative for East Tennessee

**F. LOCATION MAP - See end of chapter.**

## CHAPTER VII

### COMPOSTING, SOLID WASTE PROCESSING, WASTE-TO-ENERGY AND INCINERATION CAPACITY

#### **Statutory Requirements:**

***"...[Each plan submitted by a municipal solid waste region shall include...any other information as the Director of the State Planning Office may deem relevant..." [T.C.A. 68-31-815(b)(15)]***

Neither composting facilities, solid waste processing facilities, or incineration facilities are included in the statutory list of planning requirements. However, because these facilities are viable options which may be considered in designing an integrated, regional waste management system, the director of the State Planning Office has determined that this information is relevant, and should be included in the regional plan.

#### **A. REGIONAL NEEDS FOR COMPOSTING, WASTE PROCESSING AND/OR INCINERATION**

From information gathered during the Needs Assessment in 1991, there were no composting, solid waste processing or incineration facilities available in the Region of Hancock County. Due to the small percentage of yard waste disposed at the landfill, there is little need for a composting facility. Many of the residents in the region manage yard waste generated on their property without need for municipal disposal.

***Statutory Requirements:***

***"Each plan submitted by a municipal solid waste region shall include [a] planned capacity assurance, including descriptions of planned or needed facilities." [T.C.A. 68-31-815(b)(6)]***

**A. REGIONAL SUPPLY/DEMAND FOR DISPOSAL CAPACITY**

Hancock County does not operate any type of landfill.

**B. EXCESS CAPACITY**

There is no excess capacity in the region.

**C. DISPOSAL PLAN**

The disposal plan is to export waste from the region to Hawkins County region.

**D. IMPLEMENTATION SCHEDULE**

No schedule is needed.

**G. EXPORTATION PLANS**

Hancock County plans to continue exporting waste to a landfill in Hawkins County. No formal agreement currently exists, but verbal approval of the Hawkins County Solid Waste Planning Board has been granted. A quotation for ten year disposal has been received in writing from the BFI landfill in Hawkins County.

**TABLE VIII-4  
TEN YEAR DISPOSAL OPERATION AND MAINTENANCE BUDGET**

<b>Year</b>	<b>Annual Costs Including Operation &amp; Maintenance*</b>
<b>1994</b>	<b>\$130,200</b>
<b>1995</b>	<b>\$116,075</b>
<b>1996</b>	<b>\$102,025</b>
<b>1997</b>	<b>\$101,675</b>
<b>1998</b>	<b>\$101,300</b>
<b>1999</b>	<b>\$100,925</b>
<b>2000</b>	<b>\$100,550</b>
<b>2001</b>	<b>\$100,175</b>
<b>2002</b>	<b>\$99,800</b>
<b>2003</b>	<b>\$99,425</b>

*\*Tipping fees at landfill.*

PUBLIC INFORMATION AND EDUCATION

**Statutory Requirements:**

**"...[E]ach plan submitted by a municipal solid waste region shall include...a description of education initiatives aimed at business, industry, schools, citizens, and others, which address recycling, waste reduction, collection, and other goals..."[T.C.A. Section 68-31-815(b)(11)]**

**"...Each solid waste regional plan shall include an education program to assist adults and children to understand solid waste issues, management options and costs, and the value of waste reduction and recycling." [T.C.A. Section 68-31-842]**

**A. REGIONAL NEEDS FOR PUBLIC INFORMATION AND EDUCATION PROGRAMS**

The regional needs are to develop and implement a comprehensive, integrated information, education and publicity program which targets all sectors of the community including adults, children, government, business and industry and the general public.

**B. STEPS THE REGION WILL TAKE TO MEET IDENTIFIED NEEDS**

**Regional Goals and Objectives**

**Goal** - To change attitudes and behaviors toward the handling of solid waste so that source reduction, recycling, reuse, non-littering and cessation of illegal dumping and illegal disposal of problem waste become the routine behavior in Hancock County.

**Objectives**

- Reduce solid waste generation
- Increase participation in recycling programs
- Maintain high quality in recovered recyclables
- Reduce roadside litter and illegal dumping
- Increase understanding and participation in improved solid waste handling methods.

**Target Groups and Audiences**

- Schools
- Adults
- Government
- Media
- Business/Industry
- General Public

### ***Amount and Kind of Information to be Provided***

These goals will be pursued through many focused activities, projects, publicity and education campaigns designed to explain the mission of PCC-KAB and to increase participation. Following is a listing of planned activities identified for the planning horizon. A plan of work will be developed and updated annually.

- Organize with local governments a regional Household Hazardous Waste Collection program each year
- Grocery bag stuffers on recycling program at three grocery stores
- In-school recycling for aluminum cans at interested schools
- Mini-grants to (2) schools for Trashinator Clubs
- Litter free event promotion at annual county fair, 10 high school ballgames and other events
- Develop and distribute promotion items: magnets, pencils, mugs, etc.
- Awards program - clean docks, clean business, clean yard, etc. (one each category each year)
- Newsletter (2 yearly)
- Bank statement inserts (1 yearly)
- Employee check envelope inserts (1 company)
- Marquee messages (1 business)
- Schools programs
  - formal program in 4th and 6th/7th grades where educator travels between nine schools for a period of days (similar to the D.A.R.E. program) teaching about solid waste handling, littering, source reduction and recycling.
  - support and participate in the Clinch-Powell RC&D Council education programs Water Wizards (3rd grade) and Conservation Camps (6th grade) which have strong solid waste education components.
  - Support plays by high school drama clubs with small seed grants
  - Participation in Enviro2000 teacher in-service training annually for county teachers and educators with annual emphasis on solid waste education.
  - Sponsor rhyme, poem, art contests with solid waste themes.
  - Hold annual Earth Day Art Expo for elementary students with solid waste/environmental theme and display artwork publicly.
  - Kids Care Calendar
- Purchase and place "Rotten Truth" videos in libraries for rental
- Hold solid waste employees training and annual recognition program.
- Educational stuffers in business licenses
- Tube of Trash education tool
- Presentations to groups and clubs in a speakers bureau format
- Develop educational centers at convenience center
- Hold government forums to build teamwork in fighting illegal dumping
- Regular news articles in Sneedville Shopper
- Displays
- Courthouse/City Hall exhibits
- Actively promote community service in lieu of fines

- Promote office recycling with "how to" guides
- Develop public "how to" guides for residential recycling
- Promote "preycling" at retail businesses through means such as posters, flyers and stuffers
- Sponsor business/industry waste reduction seminars and workshops
- Prepare "ready to go" presentations, demonstrations and project ideas for volunteers and others to use for a variety of audiences and age groups.

**Methods to Be Utilized**

**a. School-based instruction** - KAB curriculums Waste In Place and Waste: A Hidden Resource and Frog Pond have been purchased and placed at every school in the county. Annual In-Service will be held on a variety of solid waste education materials including Project SWEEP. A survey will be conducted of educators to determine to what extent and in what formats they are teaching solid waste. An instructor based program will be pursued and implemented targeting the 4th and 6th/7th grades.

**b. Workshops, conferences, and training courses** - Training for convenience center operators, forums for litter prevention, waste reduction seminars for business/industry

**c. Audio-visual materials, slides and videos** - Slide presentations will be developed for local use and videos placed in libraries on solid waste subjects like "The Rotten Truth" produced by the Children's Television Network

**d. Publications** - Various pamphlets, calendar, brochures, flyers, stuffers, etc. will be developed and used in numerous situations.

**e. Contests and awards** - Recognition for clean business, clean convenience center, etc. will be developed.

**f. Exhibits or demonstrations** - Exhibit at Fall Festival, courthouse and other appropriate places.

**h. Other** - Other methods will be employed as outlined in the previous section.

**Staff and Budget Needs**

**Staff** - The Hancock County education program will be carried out by staff of Partners for Clean Communities Keep America Beautiful System which will be supported by Litter Grant and county funding from participating counties.

KAB Coordinator (shared with 4 other counties)

KAB Education Assistant (shared with 4 other counties)

**TABLE IX-1  
PUBLIC EDUCATION BUDGET**

<b>Program</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>
PCC-KAB	2000	9500	9500	9500	2000	2000	2000	2000	2000	2000

**TABLE IX-2  
PUBLIC EDUCATION FUNDING PLAN**

<b>Program</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>
PE Grant	0	7500	7500	7500	0	0	0	0	0	0
Litter Grant	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Prop. Taxes	0	0	0	0	0	0	0	0	0	0

*\* Public education grants are scheduled to end in 1997.*

***Evaluation and Reporting***

Evaluation of the program will be carried out in several ways. Measurement of waste reduction will be an important evaluation tool, as will weights and volumes of collected recyclables. Training will be measured by numbers of participants attending workshops and seminars and with follow up on information/skills used with surveys and questionnaires. Pre and post tests will be used with students. Reports will be submitted to the state as requested and required. Keep America Beautiful requires semi-annual reports as well.

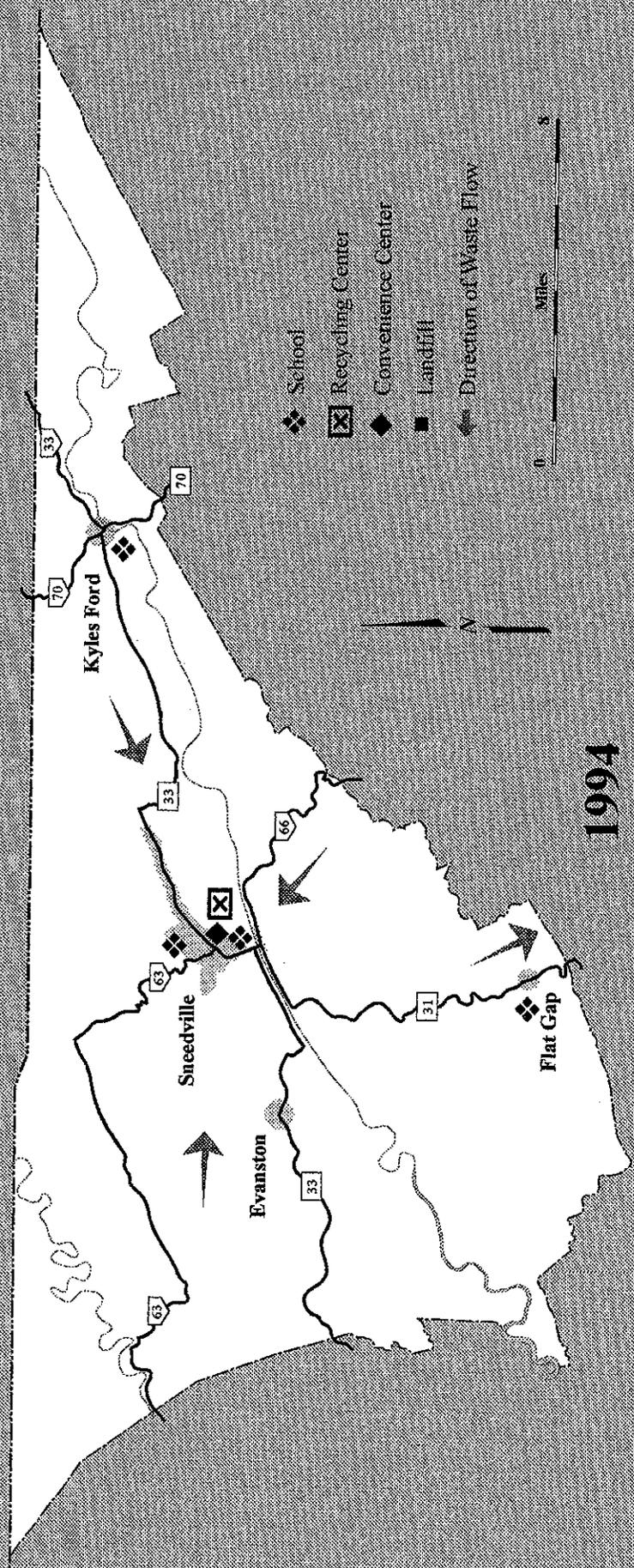
**C. TEN YEAR IMPLEMENTATION SCHEDULE**

**TABLE IX-3  
TEN-YEAR EDUCATION IMPLEMENTATION SCHEDULE**

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
School Based Instruction	x									
Workshops	x									
AV/Slides		x								
Publications	x									
Awards			x							
Exhibits	x									
Speakers Bur.	x									

*x - When program begins. Shading indicates annual or on-going activity.*

# Hancock County Planned Regional Solid Waste System



1994

source: Hancock County Solid Waste Board

**Statutory Requirements:**

**"...[E]ach plan submitted by a municipal solid waste region shall include...a plan for the disposal of household hazardous wastes; [t.c.a. 68-31-815(b)(8)]**

**"...Each county...shall provide a service site and shall advertise...the day(s) and hours and location where the household hazardous wastes will be collected...[and]...furnish at least one(1) person...who will assist...[at the] collection unit." T.C.A. 68-31-829].**

**"...Effective January 1, 1995, no municipal solid waste disposal facility or incinerator shall accept for disposal any whole waste tires, lead acid batteries, or used oil..." [T.C.A. 68-31-866(a)]**

**"...By January 1, 1995, each county shall provide at least one (1) site to receive and store waste tires, used automotive oils and fluids, and lead-acid batteries...[and]...shall sell and/or cause the transfer of the recyclable materials...to a commercial recycler or a regional receiving facility..." [T.C.A. 68-31-866(b)]**

**"...(E)ach plan submitted by a municipal solid waste region shall include...any other information as the Director of the State Planning Office may deem relevant to the implementation of the Act." [T.C.A. 68-31-815(b)(15)]**

The Solid Waste Management Act directly addresses four problem wastes. The region of Hancock County, in its plan, must describe how the regional programs will interface with the state household hazardous waste collection service. The Act also bans disposal of scrap tires, batteries and waste oil in landfills after January 1, 1995, and requires the County to develop an infrastructure for accepting, storing, recycling or safe disposal of these materials by the end of 1994. The regional plan addresses these requirements.

The Act does not address litter prevention/education/remedial action programs. However, the community efforts funded by the litter grants are acknowledged, evaluated, and incorporated into the regional plan.

No data on current handling of waste tires, used oil or lead acid batteries was collected in the District Needs Assessment. The Act bans these materials from landfills or incinerators by the end of 1994, and requires the County to provide a site to receive and store them for ultimate recycling and disposal. The regional plan describes how the Region will collect necessary data to locate, design and open these

collection sites by the statutory deadline. Specific information included for each problem waste is provided in the pages that follow. A more detailed plan will be required when the regional plan is updated in 5 years.

#### **A. HOUSEHOLD HAZARDOUS WASTE (HHW)**

##### ***Regional Needs for a HHW Management Program***

- 1) Identify an appropriate temporary site for collection.
- 2) Promote the collection event through advertisement and education; and,
- 3) Provide a County site representative during the collection event.

A potential temporary location has been identified by the county for the collection, sorting and packaging of HHW. Given the minimum requirements of a temporary site required by the Tennessee Department of Environment and Conservation, as cited in the Policy Guide on County Responsibilities for the Tennessee HHW Collection Program, 1993, appropriate location in Hancock County could be:

Hancock County High School

Seven to fifteen days prior to the Collection Event, the County will allow the HHW collection contractor to inspect the site in order to finalize plans for the event. The County will have a site location identified when submitting a request in writing to the State for the collection service. The request will identify any of the site criteria that are impossible for the County to meet. The County will provide one or more waste containers for the collection of non hazardous household waste at each collection event and provided for the proper disposal of the non hazardous wastes.

The County will advertise in the local newspapers the date, hours and location of the Collection Event. The advertisement will be published at least two full weeks preceding the event date and during the week of the event. The ad will specify that only 110 pounds of waste will be accepted from each household during the event and list the items excluded from the programs, as well as examples of acceptable items. The ad will indicate that the collection and disposal costs will be paid by the State of Tennessee.

The County will provide educational materials and brochures concerning HHW collection and disposal to the public. Educational materials provided by the contractor and the State will also be made available for use by the County. In addition, Partners for Clean Communities Keep America Beautiful System will promote the event through local schools, businesses, civic organizations and the general public.

A site representative will be provided by the County and available on site to represent the county during the Collection Event. The site representative will safeguard the County property used by the collection contractor (land and waste containers and manage problems that may arise during the collection of HHW with county-owned utilities and the non hazardous waste containers.

The site representative will be available to assist the collection contractor in the event of an emergency. Telephone numbers for the local law enforcement, emergency response, and nearest medical facilities and the address of the medical facilities will be provided to the collection contractor. The site representative will be responsible for notifying the proper authorities if necessary.

Provided below is an estimate of the program costs to the County for a HHW collection program.

**HOUSEHOLD HAZARDOUS WASTE COLLECTION**

PROGRAM ELEMENTS	PROGRAM COSTS
Site (containers)	\$0 County owned
Advertisement	\$200 (flyers, brochures, newspaper)
Site Representative	<u>\$60</u> (\$6/hr @ 10 hrs.)
Total	\$410

**Site Criteria:**

- Be accessible by paved roads
- Convenient location
- Paved working area (100 ft. X 100 ft)
- Accommodate at least 15 cars
- Clean water source
- Toilet facilities
- Telephones
- 110 electrical outlet

Progress of the program will be reported annually to the State on the types and amounts of HHW collected and the number of people served by the program.. As pre T.C.A. Section 68-211-863(b), the region will submit these annual reports to the State Planning Office.

**B. WASTE TIRES**

The current (1993) waste tire handling and disposal practices in Hancock County will be supported by a waste tire storage site located at the Hancock County Convenience Center. The site will store approximately 6,600 tires. The proposed storage site will be capable of handling the current discard rate.

The county will continue to inventory illegal tire piles and estimate the quantity of tires in each through the operations of the county litter prevention program. Education efforts to impact illegal dumping will be coordinated with the Partners for Clean Communities Keep America Beautiful System.

Estimated operational costs on the maintenance of the storage site, vector control, and shredding operation support will be integrated into the daily activities of the Solid Waste Manager operator already on site at the convenience center.

#### **C. WASTE OIL**

Waste oil will be collected at the convenience center. Other automotive fluids will be collected by the private sector in industrial sites.

#### **D. LEAD ACID BATTERIES**

Lead acid batteries were being accepted for recycling at Dave's Recycling Center in New Tazewell until July, 1994. Currently, household batteries have storage at the Convenience Center and automobile batteries go to David's Trailer, who uses them for their trade-in value. Batteries will also be collected during Household Hazardous Waste collection events. The Region will support, promote and publicize the battery collection program as part of their integrated operations.

#### **E. LITTER**

The county will continue to operate the litter prevention program for the collection of roadside litter and the clean-up of identified roadside dumps.

Litter education will be provided by Partners for Clean Communities Keep America Beautiful System and supported, in part, by a portion of the Litter Grant Fund designated for education.

#### **F. TIMETABLE FOR PROBLEM WASTE COLLECTION PROGRAM**

Provided below is a timetable to indicate the schedule of events planned with regards to problem waste collection.

**Table X-1**

**TEN YEAR TIMETABLE FOR PROBLEM WASTE COLLECTION PROGRAM IN HANCOCK COUNTY**

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Select and finalize site for HHW. Advertise. Identify rep. Schedule and hold collection event.		x								
Oil and battery collection		x	x							
Waste tire collection*		x								
Litter collection*	x									

*x When implementation begins.*

*\* Waste tire, oil and litter collection programs began before 1994, and will continue throughout the ten-year planning period*

**IMPLEMENTATION: SCHEDULE, STAFFING AND FUNDING**

In this chapter, decisions about the components and structure of an integrated solid waste management system are revisited.

**A. SYSTEM DEFINITION****GOAL**

Comprehensive and integrated solid waste management in Hancock County which is environmentally and financially sound, meets long term needs of development and is in the best interest of citizens.

**OBJECTIVES**

- Develop an implementation plan which meets state regulations, serves the best interests of citizens, is practical and financially responsible.
- Provide adequate collection of municipal solid waste from citizens through establishment of a convenience center and house to house collection.
- Plan for 10 year disposal capacity to serve Hancock Countians and provide for economic growth and expansion.
- Reduce waste by 25% by December 31, 1995 through recycling, waste reduction, reuse and responsibility.
- Educate children, adults, businesses, industries, and government sectors on proper solid waste management including financial and environmental impacts.

The current system in the Hancock County region does not serve the citizens adequately. While the City of Sneedville does have curbside pickup, the majority of the population is underserved.

Implementation of this Plan will require coordination, oversight, monitoring and supervision. Stringent regulations will require trained staff, experienced in working with details, plans, mandates, and complex issues. It will require coordination of collection, transportation, disposal, recycling, reduction and education programs. It will require completion of frequent detailed reports on every component of the plan and an annual report of implementation and revision.

Mandates will best be met and costs controlled by reorganization of the Solid Waste Planning Board into an organization structured to carry out the required Ten Year Solid Waste management Plan in the most cost effective and efficient manner.

The Hancock County Solid Waste Authority will be created and be composed of five members. Two members will be county commissioners and three will be members at-large. The Solid Waste Planning Board will serve in an advisory capacity. The Solid Waste Authority will set policy and provide direction and general oversight of all solid waste management components in the county under the broad categories of Disposal, Collection, Waste Reduction and Education. Day to day program management, program supervision and responsibility will fall to a solid waste director who will be responsible for solid waste disposal, collection, waste reduction and education in the region of Hancock County.

### **COLLECTION AND TRANSPORTATION**

Analysis of the current collection system indicates that all citizens are not adequately served with house to house collection in the city of Sneedville. Escalating costs associated with implementing requirements of the 1991 Solid Waste Act necessitate that only one convenience center be located within the county. A county wide collection service be implemented in order to serve the citizens in the most cost efficient manner. Residential waste will be collected house to house once per week. Commercial businesses' waste will be collected two or three times per week, depending on the amount generated.

### **WASTE REDUCTION**

The strategy for reaching waste reduction goals has already been set in motion. Recycling drop off containers are being placed in the convenience center to collect glass, plastics, steel cans, aluminum cans, old newspapers, waste oil and white goods. An aggressive education program is critical to the success of the waste reduction plan and is discussed in Chapter IX. The school system is targeted for an aggressive campaign for waste reduction.

Collected recycled materials will be processed and marketed at Dave's Recycling (privately owned and operated) in New Tazewell, Claiborne County. The Authority will join the Recycling Marketing Cooperative for East Tennessee for additional marketing of collected materials.

Whole tires will be collected and will be periodically shredded. The planning board is in support and in dialogue with surrounding counties concerning the potential of attracting an end user for tires. Dave's Recycling in New Tazewell collects lead acid batteries.

There are no current or planned economic incentives or disincentives in the region although possibilities have been discussed if future conditions require adoption.

Source reduction, especially precycling, has been discussed and is a focus area in education programs. Quantification of this waste reduction component is difficult. The Authority will prepare and seek approval of resolutions and ordinances by county and city governments to adopt recycled content resolutions for purchase of supplies.

Residential Recycling - The current level (1993) of residential recycling is about 22.81 tpy. The projected level of residential recycling in 1995 is 400 tpy and in 2003 is 1361 tpy.

Commercial and Industrial Recycling - Current (1993) commercial and industrial recycling totals approximately 0 tpy. This is projected to increase to 320 tpy in 1995 and 1021 tpy by 2003.

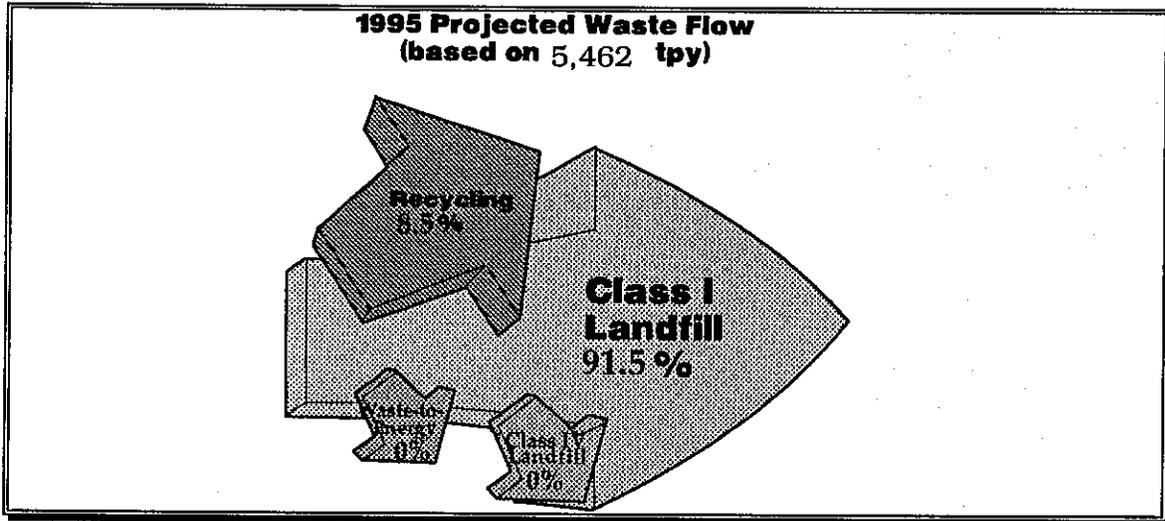
## **DISPOSAL**

The landfill that used to be in operation in Hancock County was closed due to leachate problems and code violations. The waste generated in and collected from Hancock County will be transported to Hawkins County for disposal.

## **EDUCATION**

A comprehensive, integrated information, education and publicity program which targets all sectors of the community including adults, children, government, business and industry and the general public has been designed with leadership given to Partners for Clean Communities Keep America Beautiful System. Goals will be pursued through many focused activities, projects, publicity and education campaigns designed to increase understanding and participation.

The primary methods to be used are school based instruction, workshops and training, audio-visual materials, slides and videos, publications, contests and awards, exhibits and demonstrations, and a speaker's bureau.

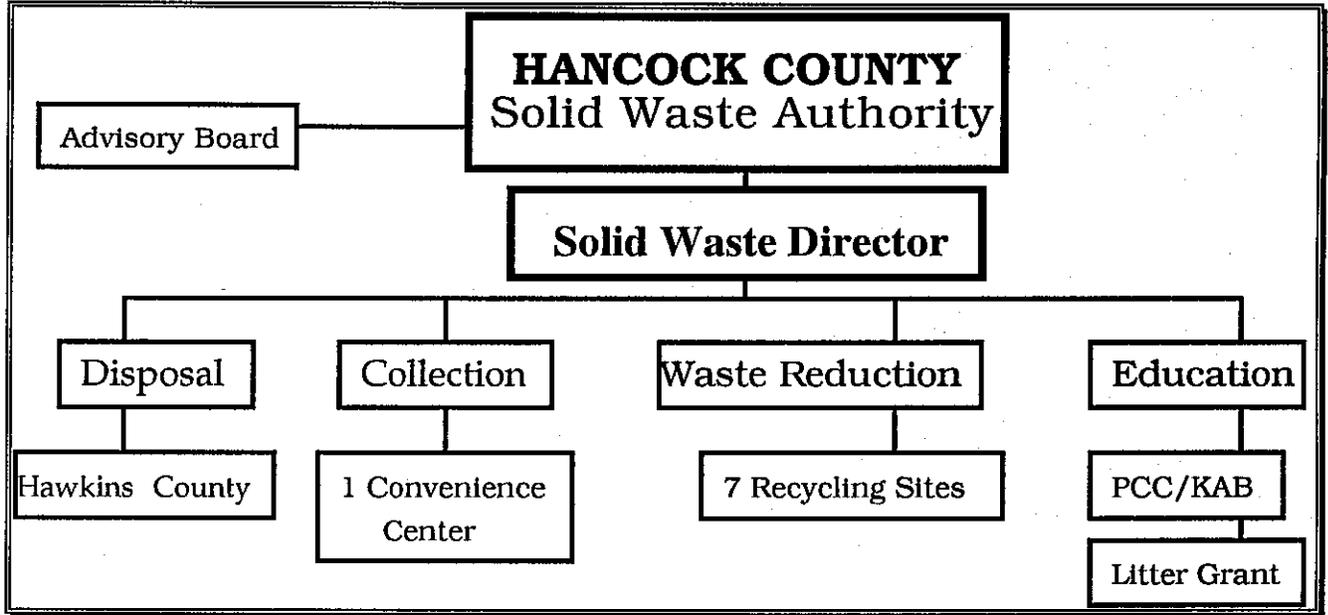


## **INSTITUTIONAL STRUCTURE**

Implementation of the Municipal Solid Waste Management Plan will require coordination, oversight, monitoring and supervision. Stringent regulations will require trained staff, experienced in working with details, engineering plans, mandates, and complex issues.

The Hancock County Solid Waste Authority will be formed and composed of five members. Two members will be county commissioners and three members will be citizens at large. The Solid Waste Authority will maintain an advisory board and will set policy and provide direction and

general oversight of all solid waste management components in the county under the broad categories of Disposal, Collection, Waste Reduction and Education. Day to day program management, program supervision and responsibility will fall to the Solid Waste Director who will be hired and be responsible for the entire integrated solid waste management system including disposal, collection, waste reduction and education in the region of Hancock County.



**B. IMPLEMENTATION SCHEDULE**

**TEN YEAR TIMETABLE FOR COLLECTION AND TRANSPORTATION**

**10-YEAR COLLECTION IMPLEMENTATION SCHEDULE**

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Construct Center	♦	♦								
Design collection routes		♦								
Purchase Trucks	♦			♦						
Begin house to house collect		♦								
Train Conv. Center Staff		♦								
Integrate Recycling Services		♦								
Data Collection Annual Reports		♦								
Plan Updates						♦				

## TEN YEAR TIMETABLE FOR RECYCLING AND WASTE REDUCTION

Program Item	Respon Organ.†	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Buy recycled campaign	PCC/KAB		X	X	X						
Promote/Conduct waste audits	Authority		X	X	X						
Establish clothing collection sites	Authority		X								
Research waste exchange	Authority RMCET		X	X							
Establish. seven recycling sites	Authority	X	X								
Establish 1 white goods sites	Authority		X								
One cardboard drop off site	Authority		X								
Schools recycling program	Authority Schools		X	X							
Expand markets	Authority Dave's RMCET		X	X	X						
Hire recycling coordinator/solid waste manager	Authority		X								
Meet 25% reduction goal	Authority		X								
Expand recy./diver survey	Authority		X	X	X						
Data collection & reports	Authority		X	X	X	X	X	X	X	X	X
Revise 10-year plan	Authority							X			

NOTE: "X" denotes milestone period and shading denotes on-going operation/emphasis of program item.

**\*TEN YEAR TIMETABLE FOR DISPOSAL CAPACITY**

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
--	------	------	------	------	------	------	------	------	------	------

**\*Not applicable because Hancock County will not have a landfill**

**TEN YEAR TIMETABLE FOR PUBLIC EDUCATION**

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<b>School Based Instruction</b>	x									
<b>Workshops</b>	x									
<b>AV/Slides</b>		x								
<b>Publications</b>	x									
<b>Awards</b>			x							
<b>Exhibits</b>	x									
<b>Speakers Bur.</b>	x									

## TEN YEAR TIMETABLE FOR PROBLEM WASTE COLLECTION

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Select and finalize site for HHW. Advertise. Identify site rep. Schedule and hold collection event.		x								
Oil collection		x								
Battery collection			x							
Waste tire collection*		x								
Litter collection*	x									

*x* When implementation begins.

\* Litter collection programs began before 1994, and will continue throughout the ten-year planning period

### C. STAFFING AND TRAINING REQUIREMENTS

#### **Current Staffing (1993)**

(3) Collection/Drivers for the City of Sneedville collection

#### **Future Staffing (1995 - 2003)**

- \*(1) Solis Waste Manager/Recycling Coordinator
- (2) Truck Drivers
- (2) Work Release Inmates
- (1) Bookkeeper (part-time)

\* Denotes employees required to be trained and certified under the SWMA of 1991. Training will be sought when guidelines are issued from the state per TCA. Specifics on anticipated hiring and training in a matrix format can be viewed in Section B of this Chapter.

**D. BUDGET**

**TEN YEAR COLLECTION AND TRANSPORTATION BUDGET**

Year	Capital Costs	County Annual Costs	Sneedville
1994	\$80,000	\$14,625	\$38,000
1995	0	\$93,276.00	0
1996	0	\$114,025.23	0
1997	0	\$121,288.84	0
1998	0	\$128,798.68	0
1999	0	\$136,536.84	0
2000	0	\$144,510.62	0
2001	0	\$152,727.56	0
2002	0	\$161,195.44	0
2003	0	\$169,922.29	0

**TEN YEAR WASTE REDUCTION BUDGET**

	Capital Outlay	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
					Annual Costs						
Waste Reduction	20,000	0	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000

**TEN YEAR DISPOSAL OPERATION BUDGET**

<b>Year</b>	<b>Annual Costs Including Operation &amp; Maintenance</b>
<b>1994</b>	\$130,200
<b>1995</b>	\$116,075
<b>1996</b>	\$102,025
<b>1997</b>	\$101,675
<b>1998</b>	\$101,300
<b>1999</b>	\$100,925
<b>2000</b>	\$100,550
<b>2001</b>	\$100,175
<b>2002</b>	\$99,800
<b>2003</b>	\$99,425

**TEN YEAR PUBLIC EDUCATION BUDGET**

<b>Program</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>
PCC-KAB	\$2000	\$9500	\$9500	\$9500	\$2000	\$2000	\$2000	\$2000	\$2000	\$2000

**CHAPTER XII**

**ALLOCATION OF IMPLEMENTATION RESPONSIBILITIES  
PLAN ADOPTION AND SUBMISSION**

**Hancock County remains a one county region, therefore the full responsibility for implementation resides with the county. The regional plan has been formally adopted by resolution of the Solid Waste Planning Board and by resolution of the Hancock County Commission.**

**The local Planning Commission has been given the opportunity to review and comment on this Ten Year Plan.**

**FLOW CONTROL AND PERMIT APPLICATION REVIEW****A. FLOW CONTROL**

The Solid Waste Management Act of 1991 authorizes regions with approved plans to exercise certain flow control powers in accordance with the plan. The Act permits regions to exercise two (2) types of flow control: (1) the out-of-region waste ban (T.C.A. Section 68-31-814(b)(1)(B)); and (2) intra-region flow control (T.C.A. Section 68-31-814(b)(1)(A)). Authorities formed under this Act are also permitted to exercise broad flow control powers (T.C.A. Section 68-31-907). The regional plan must specifically describe any flow control measures it plans to take and set forth a schedule for adoption.

Hancock County will not have an operational landfill, therefore flow control plans are not applicable currently. However, in the unlikely future event of a landfill facility being constructed in Hancock County, the County reserves the right to issue flow control guidelines.

**PART III**

**APPENDICES**

**APPENDIX A**

**LEGAL DOCUMENTATION AND ORGANIZATION OF THE REGION**

## DESCRIPTION OF THE ADMINISTRATIVE BOARD

### LIST OF MEMBERS, JURISDICTION AND TERM OF OFFICE

Sandra Palmer	County	6 years
Gary Dossett	County	4 years
Robert Winstead	County	1 year
Sally Morris	County	4 years
Larry Wayne Hopkins	City	6 years

### OFFICERS

Sandra Palmer, Chair  
Gary Dossett, Vice-Chair  
Sally Morris, Secretary

### DESCRIPTION OF THE STRUCTURE AND ROLE OF REGIONAL ADVISORY BOARD

**Mission Statement - Provide feedback and serve as a sounding board in the development of the plan and act as a liaison with the county commission.**

**Summary of Activities - The advisory board was consulted throughout the planning process and served as liaison with county commission.**

**Probable Role in Implementation - The advisory board will likely take on important responsibility during implementation including setting up billing for house to house collection, tax appropriations, etc.**

### List of Members

Michael Harrison

STATE OF TENNESSEE

I, WAYNE DEAN, CLERK OF THE COUNTY COURT,  
DO HEREBY CERTIFY THAT THE FOREGOING IS A TRUE  
AND CORRECT COPY OF THE ORIGINAL

*Resolution Creating Solid Waste Planning Region*  
IN THE ABOVE AS THE SAME APPEARS OF RECORD ON  
FILE IN MY OFFICE IN SNEEDVILLE TENNESSEE

WITNESS MY HAND AND OFFICIAL SEAL OF OFFICE  
IN SNEEDVILLE, TENNESSEE, THIS 5 OF

Jan 1995

*Wayne Dean cc*  
CLERK OF COUNTY COURT  
*Comm. Expires 8-31-98*

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RESOLUTION NO. 1-B

**A RESOLUTION  
CREATING HANCOCK COUNTY'S MUNICIPAL SOLID WASTE PLANNING REGION**

**WHEREAS**, the adoption of the Subtitle D landfill regulations by the United States Environmental Protection Agency and companion regulations adopted by the Tennessee Solid Waste Control Board will impact on both the cost and method of disposal of municipal solid waste; and

**WHEREAS**, at the urging and support of a coalition of local government, environmental, commercial, and industrial leaders, the 97th Tennessee General Assembly enacted T.C.A. 68-211-801 et seq. titles "Solid Waste Management Act of 1991"; and

**WHEREAS**, with the view that better planning for solid waste will help control the additional costs that will be imposed by the new landfill regulations, help protect the environment, provide an improved solid waste management system, better utilize our natural resources, and promote the education of the citizens of Tennessee in the areas of solid waste management including the need for and desirability of reduction and minimization of solid waste, local governments in Tennessee supported and worked for the passage of this Act; and

**WHEREAS**, one of the stated public policies of this Act is to institute and maintain a comprehensive, integrated, statewide program for solid waste management; and

**WHEREAS**, as per T.C.A. 68-211-811 the nine development districts in the State of Tennessee have completed a district needs assessment which are inventories of the solid waste systems in Tennessee; and

**WHEREAS**, Hancock County's Board of County Commissioners has given consideration to the needs assessment prepared by the East Tennessee development district; and

**WHEREAS**, T.C.A. 68-211-813, requires that counties in the State of Tennessee form municipal solid waste regions no later than December 12, 1992; and

**WHEREAS**, the Act's stated preference is the formation of multi-county regions with counties having the option of forming single or multi-county municipal solid waste regions; and

**WHEREAS**, the State of Tennessee will provide grant monies of varying amounts to single county, two county, and three or more county municipal solid waste regions to assist these regions in developing their municipal solid waste regional plans; and

**WHEREAS**, the primary and prevailing purpose of the municipal solid waste regions are the preparation of municipal

...plans which among other requirements must identify how each region will reduce its solid waste disposal per capita by twenty-five percent (25%) by December 31, 1995, and a planned capacity assurance of its disposal for a ten (10) year period; and

**WHEREAS**, the development of a municipal solid waste regional plan that results in the most cost effective and efficient management of municipal solid waste is in the best interest of the citizens of Hancock County.

**NOW, THEREFORE BE IT RESOLVED**, by the Board of County Commissioners of Hancock County, Tennessee, acting pursuant to T.C.A. 68-211-801 et seq. that there is hereby established a Municipal Solid Waste Region for and by Hancock County, Tennessee; and

---

**BE IT FURTHER RESOLVED**, that pursuant to T.C.A. 68-211-813(a)(2), that the Board of County Commissioners of Hancock County, Tennessee finds and determines that Hancock County shall be and shall constitute a single county municipal solid waste region due to the following reason. There has not been enough time to adequately research the positive and negative impacts of planning with other counties based on the recommendations of the district Needs Assessment; and

**BE IT FURTHER RESOLVED**, that this Municipal Solid Waste Region Board shall be composed of five members; one representing the City of Sneedville which provides solid waste collection and four members representing the county.

**BE IT FURTHER RESOLVED**, that pursuant to T.C.A. 68-211-813(b)(1) four Board members shall be recommended by the County Executive and approved by this Board of County Commissioners and, due to the fact that Sneedville collects or provides disposal services through its own initiative or by contract, the City of Sneedville shall have a Board member recommended by the Mayor of Sneedville and approved by the City Council of Sneedville.

**BE IT FURTHER RESOLVED**, that members of the Board of the Municipal Solid Waste Region shall serve as follows: one (1) member approved by the County shall have a two (2) year term, that two (2) members approved by the County shall have a four (4) year term, that one (1) member approved by the County shall have a six (6) year term, that one (1) member approved by the City of Sneedville shall have a six (6) year term; and

**BE IT FURTHER RESOLVED**, that this Municipal Solid Waste Region Board shall have all powers and duties as granted it by T.C.A. 68-211-813 et seq. and in addition, in the performance of its duty to produce a municipal solid waste region plan, it shall be empowered to utilize existing Hancock County governmental personnel, to employ or contract with persons, private consulting firms, and/or governmental, quasi-governmental, and public entities and agencies and to utilize Hancock County's services, facilities and records in completing this task; and

**BE IT FURTHER RESOLVED**, that at the Municipal Solid Waste Region Board's initial organizational meeting it shall select from its members a chair, vice-chair, and secretary/treasurer and shall cause the establishment of a municipal solid waste advisory committee whose membership shall be chosen by the Board and whose duties are to assist and advise the Board; and

**BE IT FURTHER RESOLVED**, that the Municipal Solid Waste Region board, in the furtherance of its duty to produce a municipal solid waste region plan, is authorized to apply for and receive funds from the State of Tennessee, the federal government, Hancock County, and the City of Sneedville, and to apply for and receive donations and grants from private corporations and foundations; and

**BE IT FURTHER RESOLVED**, that Hancock County shall receive, disburse, and act as the fiscal agent for the administration of the funds of the Municipal Solid Waste Region and the Region's Board; and

**BE IT FURTHER RESOLVED**, that upon the passage of this Resolution and at no later date than December 31, 1992, the County Clerk of Hancock County shall transmit a copy of this Resolution to the Tennessee State Planning Office.

**RESOLVED BY THE BOARD OF COUNTY OF COMMISSIONERS OF HANCOCK COUNTY, TENNESSEE**, this 18 day of Dec, 1992, the welfare of the citizens of Hancock County requiring it.

Sponsor

Dewey Taylor  
County Commissioner

Attest:

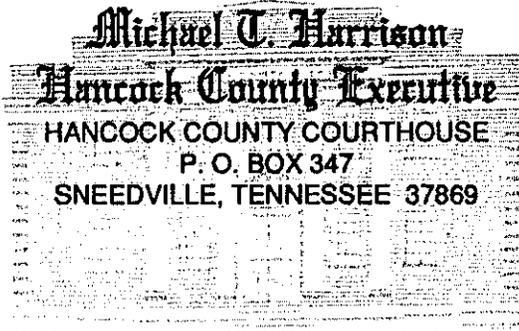
Waverly Dean  
County Clerk

Approved:

William A. ...  
County Executive

Approved as to form:

[Signature]  
County Clerk



January 5, 1995

Ms. Sandra Palmer  
Chairman, Solid Waste Board  
P.O. Box 324  
Sneedville, TN 37869

Dear Ms. Palmer,

On December 18, 1992, Hancock County's Board of Commissioners appointed the following members to the Hancock County Municipal Solid Waste Board:

Sally Morris (County)  
Robert Winstead (County)  
Gary Dossett (County)  
Sandra Palmer (County)  
Larry Wayne Hopkins (City of Sneedville)

Sincerely,

Mike Harrison  
County Executive, Hancock County

# City of Sneedville, Inc.

**P.O. Box 377, Sneedville, TN 37869**

**(615) 733-2254**

Wayland D. Rhea-Mayor  
Randall D. Alder-Vice-Mayor  
Norman D. Greene-Councilman  
Gary E. Seal-Councilman  
Pat Riley-Councilman  
Larry S. Cody-Councilman

October 15, 1994

Ms. Sandra Palmer  
Chairman, Solid Waste Board  
P.O. Box 324  
Sneedville, TN 37869

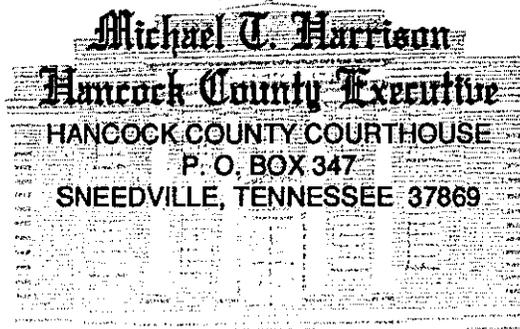
Dear Ms. Palmer,

The City of Sneedville has complied with the financial accounting requirements of T.C.A. 68-31-874(a). I hereby certify that the City has established a special revenue fund for solid waste called Solid waste Sanitation Fund.

Sincerely,



Dean Rhea  
Mayor, City of Sneedville



October 15, 1994

Ms. Sandra Palmer  
Chairman, Solid Waste Board  
P.O. Box 324  
Sneedville, TN 37869

Dear Ms. Palmer,

Hancock County has complied with the financial accounting requirements of T.C.A. 68-31-874(a) and I hereby certify that the County has established a special revenue fund for solid waste.

Sincerely,

Mike Harrison  
County Executive  
Hancock County

# City of Sneedville, Inc.

**P.O. Box 377, Sneedville, TN 37869**

**(615) 733-2254**

Wayland D. Rhea-Mayor  
Randall D. Alder-Vice-Mayor  
Norman D. Greene-Councilman  
Gary E. Seal-Councilman  
Pat Riley-Councilman  
Larry S. Cody-Councilman

September 21, 1994

To: Larry Wayne Hopkins

Subject: Appointment to the Solid Waste Planning Board

Dear Mr. Hopkins,

This letter confirms your appointment to represent the City of Sneedville on the Hancock County Solid Waste Planning Board. Thank-you for your service to this board.

Sincerely,



Dean Rhea  
Mayor, Sneedville

STATE OF TENNESSEE

I WAYNE DEAN CLERK OF THE COUNTY COURT,  
DO HEREBY CERTIFY THAT THE FOREGOING IS A TRUE  
AND CORRECT COPY OF THE ORIGINAL

*Wancock Co. Resolution Solid Waste Planning Region*

IN THE ABOVE AS THE SAME APPEARS OF RECORD ON  
ON FILE IN MY OFFICE IN SNEEDVILLE TENNESSEE

WITNESS MY HAND AND OFFICIAL SEAL OF OFFICE  
IN SNEEDVILLE, TENNESSEE, THIS 10 OF

Oct 19 94

Wayne Dean C.C.  
CLERK OF COUNTY COURT

*Comm expires 8-31-98*

Resolution No. 18-B

**A RESOLUTION RATIFYING THE HANCOCK COUNTY PLANNING REGION'S MUNICIPAL SOLID WASTE PLAN**

WHEREAS, Tennessee Code Annotated 68-211-801 et.seq. requires that each county in the State of Tennessee form solid waste planning regions, and

WHEREAS, said regions are responsible for developing a ten (10) year plan for the management of solid waste, and

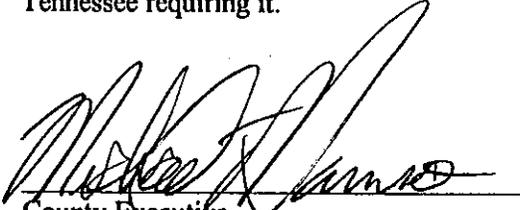
WHEREAS, by resolution, the Hancock County Board of County Commissioners created the Hancock County Solid Waste Planning Region, and

WHEREAS, the resolution creating the Hancock County Planning Region also established a Board with the responsibility of developing, administering and updating the Region's plan as per the requirements of T.C.A. 68-211-801 et.seq., and

WHEREAS, the guidelines promulgated by the Tennessee State Planning require that the municipal solid waste plan prepared by the Hancock County Planning Region be ratified by the Board of the County Commissioners of the County composing said Region.

NOW, THEREFORE, BE IT RESOLVED, by the Hancock County Board of County Commissioners that it hereby ratified the Hancock County Planning Regions solid waste plan and acknowledges Hancock County's participation and responsibilities under this plan.

RESOLVED, this 10th day of October, 1994, the welfare of the citizens of Hancock County, Tennessee requiring it.

  
County Executive

ATTEST: Wayne Dean  
County Clerk

**APPENDIX B**

**DOCUMENTATION FOR ADJUSTMENTS TO THE BASE YEAR  
GENERATION**



STATE OF TENNESSEE  
DEPARTMENT OF ENVIRONMENT AND CONSERVATION

401 Church Street  
Nashville, Tennessee 37243

July 5, 1994

Ms. Sandra Palmer, Chairperson  
Hancock County Solid Waste Board  
c/o Michael T. Harrison  
County Executive  
Hancock County Courthouse  
P.O. Box 347  
Sneedville, TN 37869

Dear Ms. Palmer:

We have received and reviewed your request for a collection variance for Hancock County. It appears that you have a valid concern for the variance. Therefore, Hancock County's base year will be changed to calendar year 1995.

Should you require any further assistance on this or other matters, please do not hesitate to contact us.

Sincerely,

Paul Evan Davis  
Director  
Division of Solid Waste Assistance

PED:GHD:dhm

Post-it Fax Note	7671	Date	# of pages
To:	Michael T. Harrison	From:	Paul Evan Davis
Subject:	Hancock County Solid Waste Board	CC:	Sandra Palmer
Phone #	(615) 253-1227	Phone #	(615) 253-1227
Fax #	(615) 253-1227	Fax #	(615) 253-1227

Michael T. Harrison  
Hancock County Executive  
HANCOCK COUNTY COURTHOUSE  
P. O. BOX 347  
SNEEDVILLE, TENNESSEE 37669

RECEIVED AUG 8 2 1994

9/

June 8, 1994

Mr. Paul Evan Davis, Director  
Division of Solid Waste Assistance  
TN Dept. of Environment & Conservation  
4th Floor, LSC Tower  
401 Church Street  
Nashville, Tennessee 37212

Dear Mr. Davis:

Hancock County would like to request that 1995 be designated as the alternate Base Year for measurement of waste reduction because it did not collect waste as of January 1, 1991 as stated under T.C.A. Section 68-31-951(b).

If you need any further information, please advise.

Sincerely,



Sandra Palmer  
Chair, Hancock County Solid Waste Board

cc: Mike Harrison, County Executive

## **APPENDIX C**

### **PUBLIC PARTICIPATION ACTIVITIES**

**1. A number of presentaitons to civic groups were made during the formulation of this Plan. A County Commissioners workshop was held to present the Plan and request feedback. The Partners for Clean Communities Keep America Beautiful gathered information for the Plan.**

#### **2. Attendance at Public Hearing**

**Phil Harrison  
B.W. Marecic  
Freddie Millins  
Michael Harrison  
Jock Mullins  
Willie Graohse  
Steve Seifried  
Lindy Turner  
Liz Upchurch  
Sally Morris  
Hank Lolimond**

## **APPENDIX D**

### **EXPORTS AND IMPORTS**

**Hancock County Solid Waste Region plans to export solid waste to Hawkins County and has verbal approval from the receiving region and a written estimate from BFI for disposal.**

**PROPOSAL FOR THE DISPOSAL  
OF SOLID WASTE**

**HANCOCK COUNTY, TENNESSEE**

**APRIL 5, 1994**

**TO  
THE HANCOCK COUNTY  
REGIONAL SOLID WASTE BOARD**

**Presented By**

**BROWNING-FERRIS INDUSTRIES  
OF TENNESSEE, INC.**



*Subsidiary of Browning-Ferris Industries, Inc.  
Route 3, Austin Mill Road  
Rogersville, Tennessee 37857*

**Contact Name: Barry Marshall  
(615) 522-8161**

April 5, 1994

Lindy Turner  
Solid Waste Planner  
Clinch-Powell Resource Conservation and Development Council  
Route 2, Box 423  
Rutledge, Tennessee 37861

**RE: HANCOCK COUNTY SOLID WASTE DISPOSAL**

Dear Lindy:

Thank you so much for the opportunity to assist Hancock County in the disposal of solid waste. We understand the many requirements that must be met regarding the State of Tennessee Solid Waste Management Act of 1991 and realize that having a state approved disposal plan for at least 10 years is a crucial element to the overall picture.

BFI's Carter Valley Landfill near Highway 11W in neighboring Hawkins County will be only one of a few disposal sites across the state to fully comply with all current EPA Subtitle D and State of Tennessee Solid Waste Act requirements. We expect the opening of our new expansion area in the summer of 1994. On that date, BFI will be happy to accept mixed solid waste (residential, industrial, commercial, institutional) coming from the Sneedville Transfer Station at a charge of \$25.00 per ton. Prices for special waste such as asbestos, etc., may be slightly higher due to special handling requirements and state regulations.

As you can see from the enclosed material, BFI has extensive knowledge in the operation of sanitary landfills. We extend an offer to you and the Planning Board members to visit the Carter Valley Landfill during the upcoming months to see construction of our first cell and gain an understanding of BFI's commitment to the environment. Give us a call and we will arrange a tour for your group.

Hancock County Proposal for Solid Waste

Page 2

April 5, 1994

We expect the trip for your rolloff trucks to be approximately 16 miles further than the M.R.D.C. Rogersville site currently being utilized by the County. However, the route along 11W is a good four lane highway and the entrance road off of 11W to our landfill is being widened and improved at the present time.

Please call me if you have any questions regarding the enclosed information.

Sincerely,  
BROWNING-FERRIS INDUSTRIES  
OF TENNESSEE, INC.



Barry K. Marshall  
Market Development

BKM/jb

ENCLOSURES

**BFI PROPOSAL TO THE HANCOCK COUNTY  
REGIONAL SOLID WASTE BOARD**

**LIABILITY PROGRAM AND INSURANCE**

BFI hereby agrees to indemnify and hold Hancock County harmless from and against all loss, damage, suits, liability, and expenses relating to the disposal of Hancock County residential, commercial, industrial, institutional solid waste and non-hazardous special waste that meets state and BFI corporate guidelines.

BFI will take title to the above mentioned waste stream upon delivery to the Carter Valley Landfill.

BFI will also offer Superfund indemnifications to Hancock County at the Carter Valley Facility.

**CONTRACT TERMS**

**Minimum Contract Period**

BFI suggests a minimum contract period of 10 years to coincide with the state plan requiring a 10 year disposal site. Should Hancock County desire to contract for a lesser period, BFI will contract for as little as a 5 year period. With the airspace available at our Carter Valley Landfill, we can contract for a maximum period of 20 years.

## ANNUAL FEE ADJUSTMENT

The rates for the disposal of the Solid Waste material shall be at the rate shown with the following conditions to apply. BFI may, at any time, petition the County to adjust the rates hereunder to fully cover increases in fuel and insurance costs, increases in costs (including, without limitation, overhead and profit) resulting from (i) changes in any laws, ordinances, regulatory requirements or guidelines (including changes in construction or interpretation thereof or changes in the manner or method of enforcement thereof), (ii) orders, judgments or directives of any court or governmental body or instrumentality thereof, (iii) revocation, suspension, denial or modification of any permit, license or approval regarding use, operation or closure of the disposal site, and (iv) other contingencies beyond BFI's reasonable control. BFI may also petition the County to adjust rates from time to time for other reasons, but any such other adjustment, to the extent such percentage increase in the local (or if none, "U.S. City Average") Consumer Price Index for Urban Towns (all items) published by the United States Department of Labor, Bureau of Labor Statistics since the date of the last such adjustment (or since the date of execution of this Agreement in the case of the first such adjustment), shall be subject to County's approval upon notice thereof from BFI thirty (30) days prior to the effective date of the adjustment.

## SUBTITLE D LANDFILL EXPERIENCE

The following material describing BFI's Middle Point Landfill in Murfreesboro, Tennessee indicate BFI's ability to design, construct and operate only one of a few sites across the state that fully comply with all current EPA Subtitle D and State of Tennessee Solid Waste Act regulations.

BFI's Carter Valley Landfill in Hawkins County, Tennessee has been designed and is currently being constructed in a similar manner with an expected opening in the summer of 1994.

**APPENDIX E**

**REVIEW BY APPROPRIATE MUNICIPAL OR REGIONAL PLANNING  
COMMISSION**

324 E. Main Street  
Sneedville, Tennessee 37869

**TO:** Hancock County Planning Commission

**FROM:** Sandra Palmer, Chair  
Hancock County Solid Waste Planning Board

**DATE:** January 9, 1995

**SUBJECT:** REVIEW OF GRAINGER COUNTY TEN-YEAR SOLID WASTE PLAN

Enclosed is a copy of the Hancock County Ten-Year Solid Waste Plan for your review, comment and possible adoption. Your review is necessary to assure that the Plan complied with T.C.A. Section 13-3-105 and/or Section 13-4-104.

After Your review please supply me with a copy of the minutes of your meeting for submission to the Tennessee Department of Environment and Conservation, Division of Solid Waste Assistance.