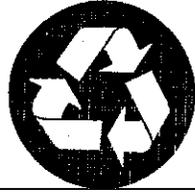


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COCKE COUNTY

SOLID WASTE MANAGEMENT PLAN

JULY, 1994

Prepared by
COCKE COUNTY REGIONAL SOLID WASTE BOARD

with assistance from
EAST TENNESSEE DEVELOPMENT DISTRICT



PRINTED ON RECYCLED PAPER

**COCKE COUNTY
SOLID WASTE REGIONAL PLAN**

As Required By

The Solid Waste Management Act of 1991

T.C.A. 68-31-813 (c) and 68-31-815

July 1, 1994

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Cocke County Regional Solid Waste Executive Summary

The State of Tennessee passed the Solid Waste Management Act in 1991, which required the formation of municipal solid waste planning regions. In accordance with the Solid Waste Management Act, Cocke County formed a single county region. The main reason for the decision to form a single county region is that Cocke County has purchased some land next to the existing landfill in order to expand. It is the plan of the Solid Waste Board to have this land permitted for a new Class I landfill cell that meets all State and Federal regulations, which will give them over 10 years of disposal capacity accepting Cocke County waste only. By becoming a single county region, the Solid Waste Board felt that it would better be able to control and protect the disposal capacity of the Class I landfill. Also, all of the neighboring counties were forming single county regions, which resulted in the lack of a potential contiguous county. However, the Cocke County Solid Waste Board feels that there is a need for regional cooperation, especially in the area of marketing recyclable materials. The Solid Waste Board is made up of the following members from Cocke County and the City of Newport: Ronald Lindsey, Chairman; Dr. Nathan Ford; Lee Baker; Charlotte Leibrock; and Gay Webb.

After completion of the Needs Assessment in 1992 by the East Tennessee Development District, the Solid Waste Board began dissecting the gathered information and formulating a solid waste plan. It should be noted that County Executive Harold Cates and Administrative Assistant Jane Hill provided extensive help in developing the plan. County Executive Harold Cates was able to keep the County Commission informed, which is probably why County Commission approval of the solid waste plan was unanimous. Using the State guidelines, the Cocke County Regional Solid Waste Management Plan consists of five major components: waste reduction, collection, disposal, recycling and education. In the following discussion each component will be looked at in terms of what is currently in place, what is needed to meet State guidelines and what is being planned for in the 10-year planning period.

Before we begin our discussion, terminology and background information is provided on the Cocke County region. The region of Cocke is 434.4 square miles and has a population of 29,198. The urban population consists of the following cities: Newport and Parrottsville, which make up 24.4% of the total population of Cocke County.

Throughout the discussion we use the terminology Class I, Class II, Class III and Class IV landfills to discuss the Solid Waste Management Plan. A Class I landfill is a sanitary landfill which serves a municipal, institutional and/or rural population and is used for disposal of domestic wastes, commercial wastes, institutional wastes, municipal wastes, construction/demolition wastes, farming wastes, discarded automotive tires and dead animals. To sum it up, basically, just about anything can go into a Class I landfill. A Class II disposal facility is a landfill which receives waste which is generated by one or more industrial or manufacturing plants and is used for the disposal of solid waste generated by such plants. A Class III disposal facility is a landfill which is used for the disposal of farming wastes, landscaping and land clearing wastes and/or certain special wastes having similar characteristics. The Class IV landfill is used for the disposal of construction/ demolition wastes and/or certain special wastes having similar characteristics.

The first component that we will look at is waste reduction. Cocke County currently produces nearly 36,022 tons of waste per year of which 24,105 tons of waste per year goes to the publicly owned Class I landfill. Cocke County also has less than 1% of unmanaged waste being generated in the region. Unmanaged waste can be described as waste that ends up along roadside and mountain bluffs rather than in the landfill. The low figure on unmanaged waste can be largely attributed to the existing eleven (11) convenience centers that are strategically placed throughout the County. The region of Cocke County has done very little waste reduction in the past, with the main waste reduction coming from the industries that have in-house recycling programs. The Solid Waste Board feels that there are three ways that the region can meet the 25% waste reduction mandate by the State: source reduction, waste diversion and recycling.

To reiterate, the State of Tennessee is requiring that each region reduce the generated waste going into the Class I landfill by 25%. The region of Cocke County will meet this 25% reduction goal set by the State by utilizing waste source reduction, waste diversion and recycling. The region of Cocke County has purchased an air curtain destructor to handle clean class III waste, which should give the region a 21% waste diversion. In addition, the region of Cocke County will upgrade the City of Newport's recycling collection and place recycling drop-off sites into all of the convenience centers. This should give the region an additional 8% waste diversion from the Class I landfill. It will not only meet the State requirement of one recycling drop off site by 1995, but will further enhance the recycling program through better availability for the public. The next two tables show the 10-year capital and operating costs for the waste reduction program. The first table represents the purchase and operation of the air curtain destructor that will handle Class III waste. The second table will show the capital and operating costs for a recycling program in the region of Cocke County. Cost estimates for a Class IV landfill will be shown with the cost of the new Class I landfill in the disposal section of this executive summary.

Budget:

A ten year budget, including both capital and annual operating costs, has been prepared below to summarize the total costs of the air curtain destructor.

Table IV-4

Capital and Operating Costs for Air Curtain Destructor

Class III Waste	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs:										
Equipment:	\$30,000									
Total Capital Costs:	\$30,000									
Operation Costs:										
Personnel:*										
Operation & Maintenance:	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540
Sub-Total:	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540
Cost of Living:		\$528	\$1,057	\$1,585	\$2,113	\$2,642	\$3,170	\$3,699	\$4,227	\$4,755
Total Operation Costs:	\$15,540	\$16,038	\$16,597	\$17,125	\$17,653	\$18,188	\$18,710	\$19,239	\$19,767	\$20,295
Sinking Fund:		\$4,286	\$4,286	\$4,286	\$4,286	\$4,286	\$4,286	\$4,286	\$4,286	\$4,286
Total Capital and Operation Costs:	\$45,540	\$20,324	\$20,883	\$21,411	\$21,939	\$22,468	\$22,996	\$23,525	\$24,053	\$24,581

Annual Capital and Operating Costs for Recycling Program in Region of Cooke County

Recycling Program:	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs:										
Equipment:		\$22,385	\$4,477	\$4,477	\$4,477	\$4,477	\$4,477	\$4,477	\$4,477	
Sinking Fund:			\$7,675	\$7,675	\$7,675	\$7,675	\$7,675	\$7,675	\$7,675	\$7,675
Total Capital Costs:		\$22,385	\$12,152	\$12,152	\$12,152	\$12,152	\$12,152	\$12,152	\$12,152	\$7,675
Operation Costs:										
Personnel:		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Transportation:		\$7,093	\$7,093	\$7,093	\$7,093	\$7,093	\$7,093	\$7,093	\$7,093	\$7,093
Publicity:		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Sub-Total:		\$8,093	\$8,093	\$8,093	\$8,093	\$8,093	\$8,093	\$8,093	\$8,093	\$8,093
3.4% CLI			\$275	\$550	\$825	\$1,101	\$1,376	\$1,651	\$1,926	\$2,201
Total Operational Costs:		\$8,093	\$8,368	\$8,643	\$8,918	\$9,194	\$9,469	\$9,744	\$10,019	\$10,294
Total Capital & Operational Costs:		\$30,478	\$20,520	\$20,795	\$21,070	\$21,346	\$21,621	\$21,896	\$22,171	\$22,446

Budget Information

1. Equipment: Four compartment container = \$4477 each
Will use truck already in service.
2. Sinking Fund: Assuming containers need to be replaced every seven years.
3. Personnel: Will use existing personnel at the convenience centers.
4. Transportation: Based on 20 miles per week per site x .52 for truck and .10 for trailer.

The next component is collection. The region of Cocke County provides door to door collection by the City of Newport and private haulers throughout the County and the municipality of Parrottsville. In addition, the County of Cocke provides eleven (11) convenience centers strategically placed throughout the region for public use. With the exception of bringing these centers up to the new State standards, the Solid Waste Board feels that the region of Cocke County is more than adequately meeting the needs of the public for the collection of solid waste. The following chart shows the current convenience centers and conditions of the centers in accordance to State standards. The following budget represents the capital and operating cost of the convenience centers over the next 10-year planning period.

In summary, the State requirements for the region of Cocke County is that at least one convenience center must be built according to State standards. The region of Cocke County plans to bring the existing eleven convenience centers up to State standards during the upcoming 10-year planning period. The first convenience center will be brought up to State standards no later than January 1, 1996.

TABLE V-1
CONVENIENCE CENTER INVENTORY (JUNE 1993)

	1	2	3	4	5	6	7	8	9	10	11
DESIGN/OPERATION STANDARDS	Morrell Springs	Wilton Springs	Cosby Road	Del Rio	Grassy Fork	Rankin Road	Parrottsville	Landfill	Bogard	Reedtown	Bybet
ACCESS	Fence Yes	Fence	Fence	Fence	Fence	Fence	Fence	Fence - Open 24 Hours	Under Construction	Under Construction	
• Fence posted											
DUST/MUD CONTROL	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Paved			
• Paved/compacted stone											
RUN-OFF CONTROL	Yes										
• Proper grading											
FIRE SAFETY	Planned										
• Fire suppression equipment											
• Fire department support											
COMMUNICATION	Planned										
• On-site equipment											
PERSONNEL FACILITIES	Building	Building	Building	Planned Building	Building	Building	Building	Building			
• Office building											
• Sanitary facilities											
WATER	NA										
• Equipment and facility											
PROCESS WATER	NA										
• Compaction equipment											
WASTE HANDLING	Yes										
• Litter maintenance											
• Containers on compacted stone/pavement											
FACILITY SUPERVISION	Yes	Yes	Yes				Yes	None			
• Personnel present											
• Training completed											
SITE PERMITTED	Planned	Planned	No	Planned	No	Planned	Planned	No	Planned	Planned	
SPECIAL WASTE	NA										
WASTE CONTAINERS	12	16	16		14	16	14	10			
• 6 cubic yard											
• Number											
RECYCLING	Newspaper Plastic Aluminum Motor Oil	Planned	Planned	Planned	Planned	Motor Oil	Planned	Motor Oil	Planned	Planned	

E. 10-YEAR BUDGET

A ten year budget, including both capital and annual operating costs, has been prepared below to summarize the total costs of the regional collection system.

Table V-3

Capital and Operating Costs for Collection/Transportation System

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Convenience Centers:										
Capital Costs:										
Construction:	\$6,000	\$27,688								
Equipment:		\$7,500	\$11,785	\$11,785	\$11,785	\$11,785	\$11,785	\$11,785	\$11,785	\$11,785
Rent:	\$3,480	\$3,480	\$3,480	\$3,480	\$3,480	\$3,480	\$3,480	\$3,480	\$3,480	\$3,480
Total Capital Costs:	\$9,480	\$38,668	\$15,265	\$15,265	\$15,265	\$15,265	\$15,265	\$15,265	\$15,265	\$15,265
Operation Costs:										
Personnel:	\$120,907	\$120,907	\$120,907	\$120,907	\$120,907	\$120,907	\$120,907	\$120,907	\$120,907	\$120,907
Transportation:	\$39,674	\$39,674	\$39,674	\$39,674	\$39,674	\$39,674	\$39,674	\$39,674	\$39,674	\$39,674
Landfill Fee:	\$142,200	\$142,200	\$142,200	\$142,200	\$142,200	\$142,200	\$142,200	\$142,200	\$142,200	\$142,200
Sub-Total:	\$302,781	\$302,781	\$302,781	\$302,781	\$302,781	\$302,781	\$302,781	\$302,781	\$302,781	\$302,781
Cost of Living:		\$10,295	\$20,589	\$30,884	\$41,178	\$51,473	\$61,767	\$72,062	\$82,356	\$92,651
Total Operational Cost:	\$302,781	\$313,075	\$323,370	\$333,665	\$343,959	\$354,254	\$364,548	\$374,843	\$385,137	\$395,432
Total Capital & Operational Costs:	\$312,261	\$351,743	\$338,635	\$348,930	\$359,224	\$369,519	\$379,813	\$390,108	\$400,402	\$410,697

The next component is the disposal of municipal waste. The region of Cocke County currently has a Class I landfill that will close in October, 1996, due to the new Federal and State regulations. The region of Cocke County is currently working with the State to have some adjacent land permitted for the construction of a new Class I landfill cell that meets all the new State and Federal regulations. It is estimated that the new landfill cell would give the region of Cocke County over 10 years of disposal capacity. Within the 10-year planning period, the Solid Waste Board will look at all their options on handling solid waste and determine the best avenue for the handling of such waste. The following 10-year budget shows the capital and operating cost of both the Class I and Class IV landfills.

Capital and operation costs for Cocke County Class I & IV Landfill

Class I & IV Landfill:	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs:										
Closure Costs:	\$44,397	\$44,397	\$44,397	\$28,586	\$30,015	\$31,516	\$42,434	\$44,558	\$46,784	\$49,123
Post Closure Care:				\$36,755	\$37,163	\$37,591	\$38,041	\$38,513	\$39,009	\$39,529
Equipment/fuel/oil:	\$32,000	\$33,024	\$25,561	\$180,384	\$182,188	\$193,900	\$195,822	\$197,805	\$199,852	\$201,984
Govt. Agency Contracts:	\$36,000	\$36,000	\$36,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Materials:	\$23,400	\$24,149	\$18,692	\$95,952	\$99,022	\$102,191	\$105,461	\$108,836	\$112,319	\$115,913
Other Contracted Services:	\$15,000	\$15,480	\$11,981	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Capital Cost:	\$150,797	\$153,050	\$136,631	\$341,677	\$348,388	\$365,198	\$381,758	\$389,712	\$397,964	\$406,529
Operating Costs:										
Personnel:	\$177,939	\$183,633	\$142,132	\$186,130	\$192,090	\$198,240	\$204,580	\$211,130	\$217,890	\$224,860
Overhead/Admin./Miscellaneous	\$37,222	\$38,413	\$38,413	\$96,130	\$99,200	\$102,370	\$105,650	\$109,030	\$112,520	\$116,120
Testing:	\$10,000	\$10,000	\$10,000	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000
Engineering:	\$13,000	\$13,416	\$13,845	\$17,585	\$18,148	\$18,729	\$19,946	\$20,584	\$21,243	\$21,923
Total Operating Costs:	\$238,161	\$245,462	\$204,390	\$341,845	\$351,438	\$362,339	\$372,086	\$382,744	\$393,653	\$404,903
Total Capital & Operating Costs:	\$388,958	\$398,512	\$341,021	\$683,522	\$699,826	\$727,537	\$753,844	\$772,456	\$791,617	\$811,432

The final and probably the most important component is education. If the public is not aware of or is not taught the importance of proper solid waste techniques, then all of the other components of solid waste will be unsuccessful. The region of Cocke County has just recently secured a Keep America Beautiful franchise for its education program. A full-time education coordinator has been hired which will help implement and facilitate the solid waste plan over the 10-year planning period. The following budget represents the 10-year plan for the education program.

Table IX-1

Annual Capital and Operating Costs for Education Program in Cocke County

EDUCATION PROGRAM	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<i>Capital Costs:</i>										
Audio/Visual equipment:	\$600			\$1,500					\$1,000	
KAB franchise fee :		\$2,000								
Total Capital Costs :	\$600	\$2,000		\$1,500					\$1,000	
<i>Operational Costs:</i>										
Wages, fringes, etc.:	\$9,360	\$15,600	\$15,600	\$15,600	\$15,600	\$15,600	\$15,600	\$15,600	\$15,600	\$15,600
General office:	\$800	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,400	\$1,400
Promotions:	\$650	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
KAB, Inc. annual fee:			\$250	\$250	\$250	\$250	\$250	\$250	\$250	\$250
Sub-Total:	\$10,810	\$17,600	\$17,850	\$17,850	\$17,850	\$17,850	\$17,850	\$17,850	\$17,850	\$17,850
3.4% CLI		\$598	\$1,214	\$1,821	\$2,428	\$3,035	\$3,642	\$4,248	\$4,855	\$5,462
Total Operation Costs:	\$10,810	\$18,198	\$19,064	\$19,671	\$20,278	\$20,885	\$21,491	\$22,098	\$22,705	\$23,312
Total Capital & Operation Costs	\$11,410	\$20,198	\$19,064	\$21,171	\$20,278	\$20,985	\$21,491	\$22,098	\$23,705	\$23,312

Budget Information

Personnel: After 1994, 40/hrs per week at \$6/hr.

Finally, household hazardous waste (HHW), which for our purposes is used motor fluids and oil filters, but eventually may progress into paint and aerosol cans, etc, needs to be addressed. The region of Cocke County currently does not have a permanent HHW site, but utilizes the State's mobile equipment twice a year. With the exception of tires, all other HHW material is being handled by the private sector. The region of Cocke County will apply for a waste tire storage grant to be located at the existing Class I landfill site. The Solid Waste Board feels that eventually HHW drop-off sites should be integrated into all the convenience centers. This will be phased in over the 10-year planning period.

In summary, the region of Cocke County has anticipated a lot of the goals and mandates that are being handed down by the State and have either already met them or have planned for them in the near future. The region will meet the 25% reduction mandate largely through the use of an air curtain destructor, which will provide a 21% waste diversion. The other main area of waste diversion will come from recycling. The City of Newport is already restructuring their disposal methods to handle the recycling collection. The region of Cocke County is already applying for a Class I landfill expansion that will meet the new Federal and State regulations for the next 10 + years. The region already meets the convenience center rules with the exception of bringing one of their eleven convenience center sites up to code by January, 1996.

The region of Cocke County already has an established education program that is now ready to help implement all of the necessary components of the solid waste plan. Finally, the Solid Waste Board feels that they have come up with the most economical plan available for the region of Cocke County. The following 10-year budget plan shows the overall budget for the Solid Waste Management Plan of Cocke County.

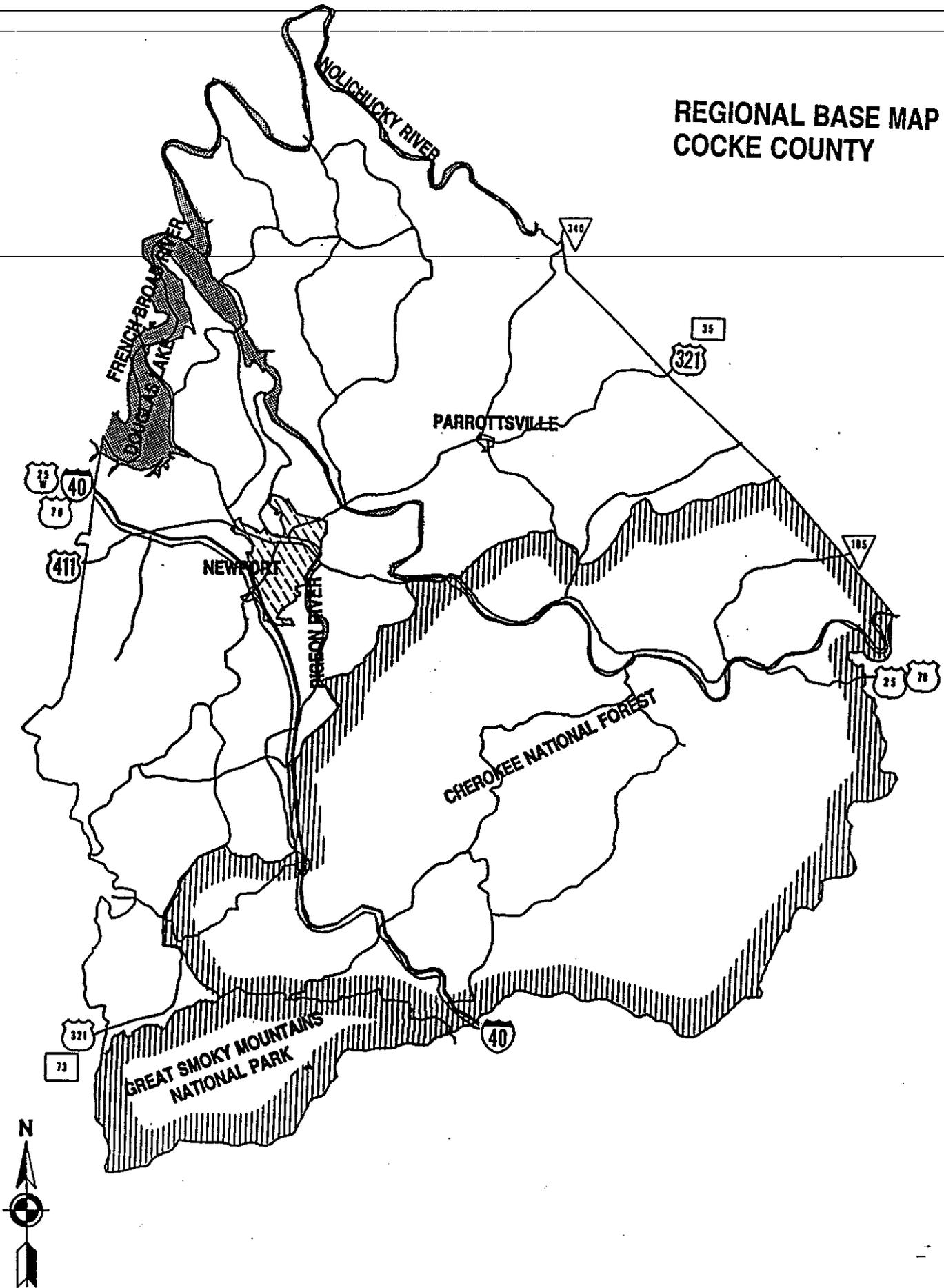
Total Budget for Region of Cocke County

Components:	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Class III Waste:	\$45,540	\$20,324	\$20,883	\$21,411	\$21,939	\$22,468	\$22,996	\$23,525	\$24,053	\$24,581
Class 1 & IV Waste:	\$388,958	\$398,512	\$341,021	\$683,522	\$699,826	\$727,537	\$753,844	\$772,456	\$791,617	\$811,432
Convenience Centers:	\$312,261	\$351,743	\$338,635	\$348,930	\$359,224	\$369,519	\$379,813	\$390,108	\$400,402	\$410,697
Recycling:	\$0	\$30,478	\$20,520	\$20,795	\$21,070	\$21,346	\$21,621	\$21,896	\$22,171	\$22,446
Education:	\$11,410	\$20,198	\$19,064	\$21,171	\$20,278	\$20,885	\$21,491	\$22,098	\$22,705	\$23,312
Total Components:	\$778,447	\$821,255	\$740,123	\$1,095,829	\$1,122,337	\$1,161,755	\$1,199,765	\$1,230,083	\$1,260,948	\$1,292,468

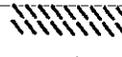
Maps

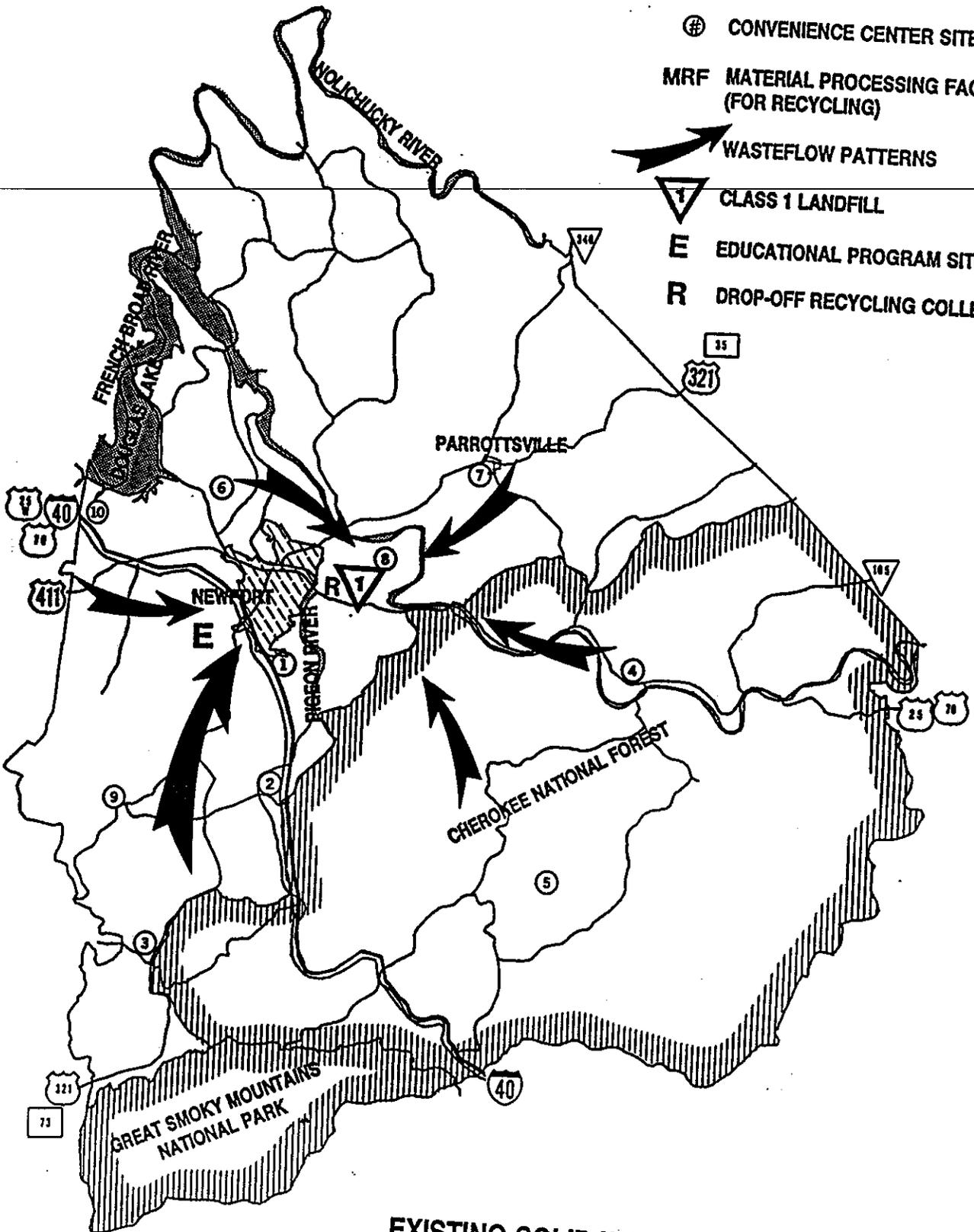
1. Regional Base Map
2. Existing System Map
3. Proposed System Map
4. Education System Map

REGIONAL BASE MAP OF COCKE COUNTY



LEGEND

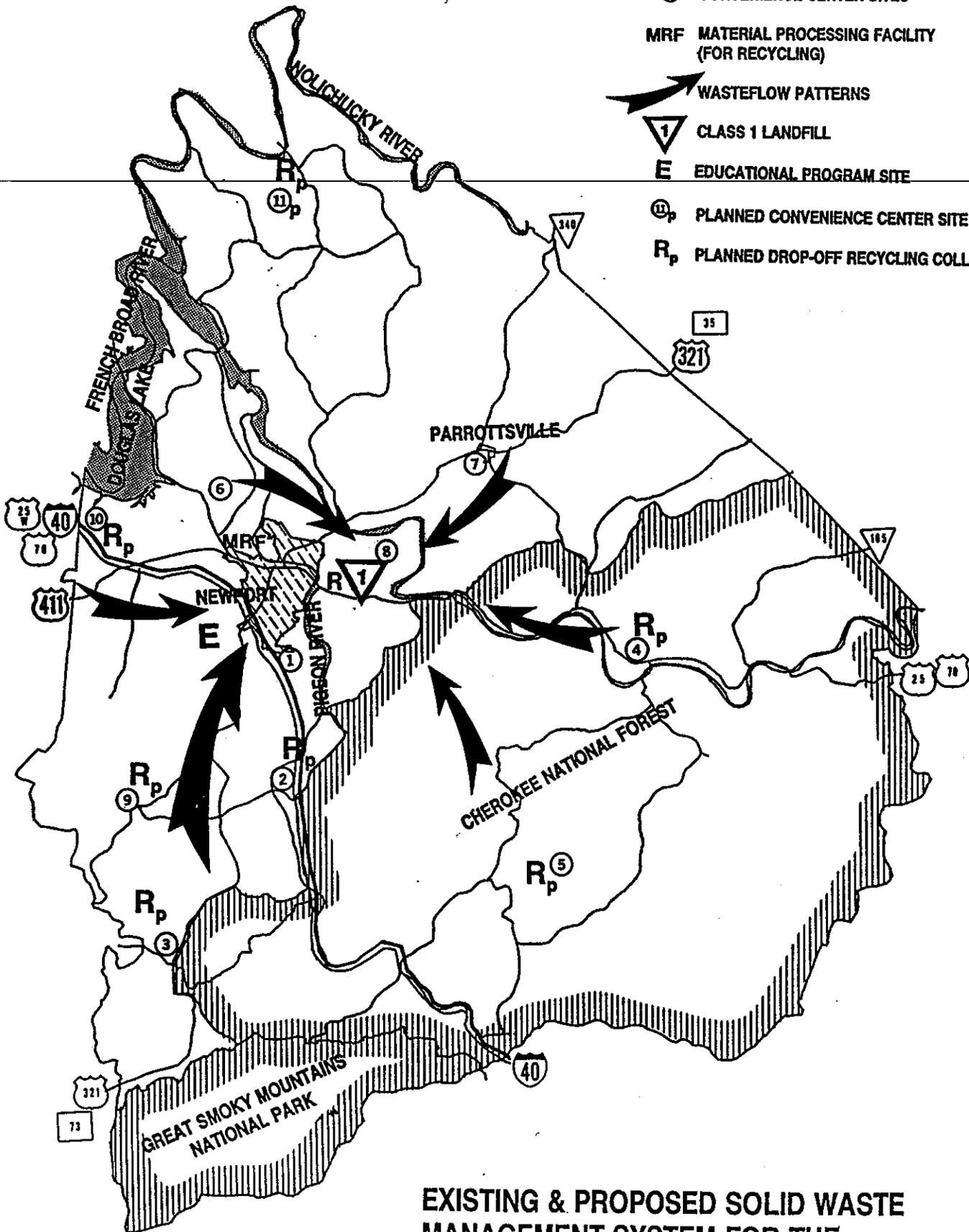
-  CURBSIDE SOLID WASTE COLLECTION AND RECYCLING COLLECTION
-  CONVENIENCE CENTER SITES
-  MRF MATERIAL PROCESSING FACILITY (FOR RECYCLING)
-  WASTEFLOW PATTERNS
-  CLASS 1 LANDFILL
-  EDUCATIONAL PROGRAM SITE
-  DROP-OFF RECYCLING COLLECTION SITE



EXISTING SOLID WASTE MANAGEMENT SYSTEM FOR THE REGION OF COCKE COUNTY

LEGEND

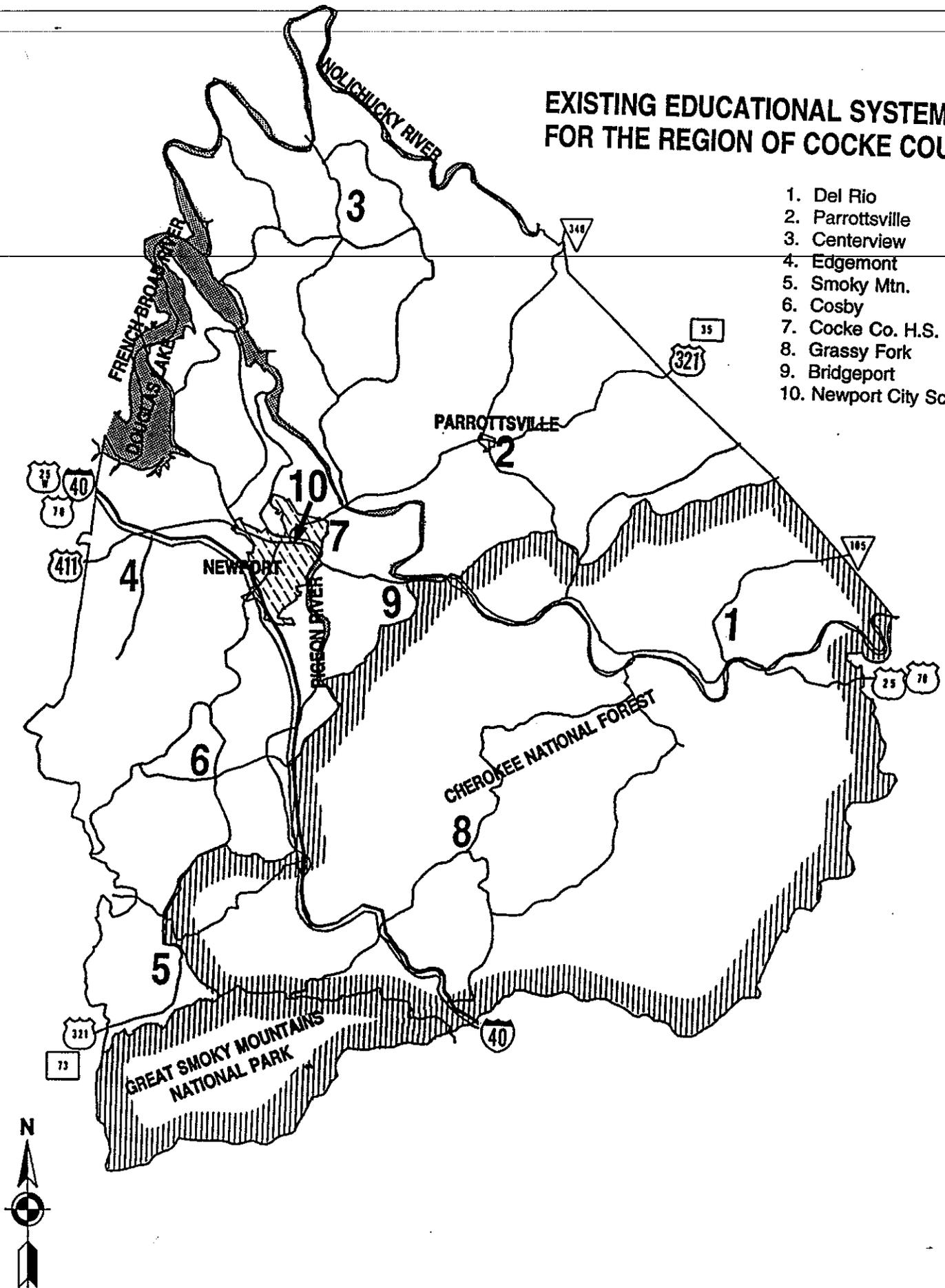
-  CURBSIDE SOLID WASTE COLLECTION
-  CONVENIENCE CENTER SITES
- MRF** MATERIAL PROCESSING FACILITY (FOR RECYCLING)
-  WASTEFLOW PATTERNS
-  CLASS 1 LANDFILL
- E** EDUCATIONAL PROGRAM SITE
-  PLANNED CONVENIENCE CENTER SITE
- R_p** PLANNED DROP-OFF RECYCLING COLLECTION SITES



EXISTING & PROPOSED SOLID WASTE MANAGEMENT SYSTEM FOR THE REGION OF COCKE COUNTY

EXISTING EDUCATIONAL SYSTEM FOR THE REGION OF COCKE COUNTY

1. Del Rio
2. Parrottsville
3. Centerview
4. Edgemont
5. Smoky Mtn.
6. Cosby
7. Cocke Co. H.S.
8. Grassy Fork
9. Bridgeport
10. Newport City School



Implementation

Schedule

1. Recycling
2. Collection
3. Disposal
4. Education
5. Household Hazardous Waste

Ten Year Implementation Schedule for Recycling Program

Recycling:	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Encourage Industrial/ Commercial	X										County / CIS	N/A	N/A
Integrate Recycling with Convenience Centers		X		X	X	X	X	X	X		County	\$4,477	General Fund/ Tipping Fees
Integrate Recycling with Door-to-Door Collection	X	X									Cities	\$20,000	Solid Waste Fee
Educate the Public	X										Education Coordinator	\$15,000	State Grants/ Private Donations
Purchase Recycling Equipment		X									County / Cities	\$20,000	State Grants
Join R.M.C.E.T.		X									County	\$10,000	Sale of Recyclable
Communicate with Office of Cooperative Marketing		X									Solid Waste Board	N/A	N/A
Plan Updates	X					X					Solid Waste Board	N/N	N/A
Annual Reports and Data Collection	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

Ten Year Implementation Schedule for Collection Program

Collection:	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Continue Door to Door Collection	X										Cities & Private Haulers	Varies	Solid Waste Fee
Establish Standards for Private Haulers		X									State	N/A	N/A
Bring Convenience Centers up to State Standards			X	X	X	X	X	X	X	X	County	\$6,000	State Grant
Manned Convenience Centers	X										County	\$120,907	General Fund
Certification of Staff			X								State	N/A	N/A
Plan Update	X					X					Solid Waste Board	N/A	N/A
Annual Reports	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

Ten Year Implementation Schedule for Disposal of Solid Waste

Disposal	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Apply for Permit to Upgrade Existing Landfill	X										County	\$150,000	General Fund
Construct New Class I Landfill Cell			X								County	\$300,000	Tipping Fees
Construct New Class IV Landfill Cell			X								County	\$100,000	Tipping Fees
Closure of Old Class I landfill Site			X								County	\$44,000	Tipping Fees
Consider Transferring Ownership to a Solid Waste Authority				X							County	N/A	N/A
Training Personnel	X										State	N/A	N/A
Plan Update	X					X					Solid Waste Board	N/A	N/A
Annual Report	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

Ten Year Implementation Schedule for Education Program

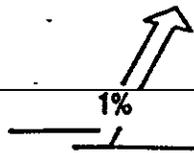
Education	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Enforce Illegal Dumping	X										County Court	N/A	N/A
Establish KAB Franchise	X										Solid Waste Board	\$2,000	General Funds
Hire Education Coordinator	X										County	\$15,000	General Fund
Educate the Target Groups		X									Education Coordinator	\$1,500	State Grants / Private Donations
Plan Updates	X					X					Solid Waste Board	N/A	N/A
Annual Reports	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

Ten Year Implementation Schedule for Household Hazardous Waste

HHW	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Use State's Mobile Equipment	X										Solid Waste Board	\$1,000	Tipping Fee
Publicize HHW Sites	X										Solid Waste Board	\$1,000	Tipping Fee
Construct Tire Storage Site		X									County	\$10,000	State Grant
Integrate HHW Sites with Convenience Centers		X	X	X	X	X	X	X	X	X	County	\$1,000	State Grant
Contract with Private Hauler For Disposal of HHW		X									County	\$500	Tipping Fee
Plan Update	X					X					Solid Waste Board	N/A	N/A
Annual Reports	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	N/A

Flow Diagram for Coker County Region:

Source-Reduction: 243 tons/year



Diversion: 8793 tons/year

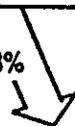


Waste Generation
36,022 tons/year
100%



Landfilled:
24,105 tons/yr

8%



Recycling: 2881 tons/year

COCKE COUNTY SOLID WASTE REGIONAL PLAN

Introduction:

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 were 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 Assessment. The planning region defines its specific needs-quantitatively.

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 (for example, the sudden closure of a major industry, or construction of a new processing facility). 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 narrative and may be supported by tables, figures, and maps prepared by the Region. The planning horizon is 1994-2003.

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

The plan was submitted to the State Planning Office after a public hearing had been conducted in the Region.

The Statutory Authority requiring preparation of the plan and describing its content is found in the following section of the Tennessee Code Annotated: T.C.A. Sections 68-211-813(c); 68-211-814(a); 68-211-814(b); 68-211-815; 68-31-851(b); 68-211-861(f); 68-211-842; 68-211-871(a) and (b); and indirectly, in 68-211-866(b); and 49-7-121.

CHAPTER I.

**DESCRIPTION OF THE
MUNICIPAL SOLID WASTE REGION**

A. GENERAL DESCRIPTION:

The county and municipalities in the region include: Cocke County; Newport (city); Parrottsville (town). The total area in the region (Cocke County) in 1970 was 421.24 square miles or 269,600 acres. (Note: That the 1990 Census indicated that there were 434.4 square miles in the county, and therefore this number will be used for further calculations.) The major physiographic features of Cocke County include: the Nolichucky River; Pigeon River; French Broad River and Douglas Lake; English Mountain; Rich Mountain; the Great Smoky Mountains National Park (Round Mountain, Mount Cammerer, Old Black, Inadu Knob, Cosby Knob); and the Cherokee National Forest (Green Mountain, Neddy Mountain, Stone Mountain, Meadow Creek Mountain, Brushy Mountain, Laurel Mountain, Snowbird Mountain). All of the mountains are part of the Appalachian Mountain Range.

The breakdown of land uses are as follows:

Commercial	Residential	Industrial	Recreational	Agricultural	Public	Forest
150 acres	3,370	210	64,160	129,300	3,160	69,250
.23 sq. mi.	5.27	.33	100.25	202.03	4.94	108.20
0.05%	1.3%	0.08%	23.8%	48.0%	1.2%	25.7%

Source: The East Tennessee Development District Land Use Plan: 1979-2000.

Note: The information in the above table is from the last comprehensive land use plan of Cocke County (c. 1970), and thus may not reflect the complete acquisition of the Cherokee National Forest.

B. RATIONALE FOR REGION FORMATION:

As specified in the Solid Waste Management Act (T.C.A. Section 68-211-815(b)(12), there are specific reasons to be stated as to why Cocke County failed to adopt a multi-county option. After the completion of the Needs Assessment in 1992, Cocke County chose to form a single-county solid waste region in 1993 for several reasons.

The initial rationale for forming a single-county region was due to the fact that Cocke County had already purchased additional acreage for a new Class 1 landfill adjacent to the existing landfill. Plans have been made by the County to permit, design and construct the new landfill facility by October, 1996. The County has primarily made the commitment to continue permitting its own landfill for Cocke

County solid waste because surrounding counties have expressed no desire in accepting Coker County waste for disposal.

Another reason the County opted to form a single-county region is because contiguous counties (Jefferson, Sevier, Hamblen & Greene) chose to form single-county regions leaving Coker County little choice in forming a multi-county region with another contiguous county in Tennessee.

C. INSTITUTIONAL STRUCTURE:

The description of the institutional structure of the Coker County Solid Waste Regional Board includes details on individual members, their authority and duties. The Board members, their representation and term of office are listed as follows:

Members	Representation	Terms of Office
Ronald Lindsey	Newport (Chair)	2
Dr. Nathan Ford	County (Vice-Chair)	4
Lee Baker	Newport (Secretary)	4
Charlotte Leibrock	County	6
Gay Webb	County	2

The Solid Waste Board coordinates with local government by having city and county representatives on the board, along with having the County Executive regularly attend meetings. Both city and county representatives report to their respective councils or commissions. There are also waste management workshops and seminars that bring the board members into contact with local government officials, and public citizens including industrialists and business people. Meetings are advertised and the public is encouraged to attend. A Solid Waste Advisory Committee has also been established to further link the Solid Waste Board with the public.

The Solid Waste Advisory Committee is composed of private citizens who were recommended to serve on the committee by Solid Waste Board members. The Advisory Committee assists the Solid Waste Board in collecting data and determining options for the following sub-committees: Public Education, Finance, Collection, Reduction, and Disposal/Waste Flow. Solid Waste Advisory Committee members include (as of September 7, 1993): Sherry Butler, Pamela Ball, Betty Jean Hardison, Jack Caswell.

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: Cocke County

Regional Population: 29,198 (1993)

Regional Area: 434.4 square miles

Table I-1

Average Population Density

County	Area (Sq. Miles)	1993 Population	Avg. Density Population/sq.miles
Cocke	434.4	29,198	67.2
Regional Total	434.4	29,198	67.2

Table I-2

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

County	Urban		Rural	
	Population	%	Population	%
Cocke	7,124	24.4	22,074	75.6
Regional Total	7,124	24.4	22,074	75.6

Table I-3**Distribution of Total Regional 1990 Population by Sex and Age**

Age	Total	Male	%	Female	%
0 - 4	1,610	860	53.4	750	46.6
5 - 17	5,058	2,545	50.3	2,513	49.7
18 - 44	10,784	5,311	49.2	5,473	50.8
45 - 64	5,287	2,581	48.8	2,706	51.2
65 +	3,398	1,369	40.3	2,029	59.7
REGIONAL TOTAL	26,137	12,666	48.5	13,471	51.5

Source: 1990 Census

Table I-4**Distribution of Regional 1990 Population by Education (Age ≥ 25)**

	Number	%
Less than 9th Grade	5,900	30.8
9th-12th Grade, no diploma	3,615	18.8
High School Graduate	6,176	32.2
Some College, no degree	1,979	10.3
Associate Degree	459	2.4
Bachelor's Degree	737	3.8
Post Graduate/Professional Degree	320	1.7
REGIONAL TOTAL	19,186	100.0

Source: 1990 Census

The regional demographic trends listed in Table I-6, on the previous page, may affect future waste generation rates and quantities. According to the population projections compiled by the University of Tennessee, Department of Sociology, Cocke County's population will increase 1.2% between 1990 and 2000. However, the County's population is expected to decline 1.5% between 2000 and 2010. The City of Newport will continue to decline in population during the next two decades without major annexations. The decline is due to the limited amount of new construction and an overall decline in household size. The population of the Town of Parrottsville is expected to remain stable.

Between 1980 and 1990 Cocke County's population increased 1.2%. All areas of the County experienced growth with the exception of the Del Rio area and the City of Newport. Most of the growth occurred around Newport but outside the corporate limits. With population increases occurring over the past decade, and again, predicted for the next 10 years, solid waste generation will also increase. Major increases have been primarily outside the municipality of Newport. Greater emphasis will need to be placed on adequate solid waste collection and disposal services by the County.

E. ECONOMIC ACTIVITY

The following information concerns basic economic activity for Cocke County. The following tables include data on agricultural and non-agricultural employment, employers by industry, health care facilities, local revenue sources, assessed property values, property tax revenue, local sales and sales tax revenues, and number of registered of vehicles.

Table I-7

Basic Economic Information for the Region

County	1993 Population ¹	MSA County (yes/no)	Total Employment ²	Total Earnings ²	Per Capita Income ²	% Population Below the Poverty Line ³
Cocke	29,198	No	11,309	\$339,445,000	\$11,658	25.3%
Regional Total	29,198		11,309	\$339,445,000	\$11,658	25.3%

Source: ¹ University of Tennessee, Department of Sociology, November, 1992
² Bureau of Economic Analysis, U.S. Department of Commerce, 1991
³ 1990 Census

Table I-8

Total Non-agricultural Employment by Sector and % of Total Employment

County	Manufacturing	Construction	Trade	Finance	Service	Govt.	Transportation Pub. Utilities
Cocke	3,070	365	2,347	574	2,072	1,284	155
Regional Total	3,070	365	2,347	574	2,072	1,284	155
%	27.1	3.2	20.8	5.1	18.3	11.4	1.4

Source: Bureau of Economic Analysis, U.S. Department of Commerce, 1991
 Note: Number of people in non-agricultural employment in 1991 = 9,973.

Table I-9

Agricultural Employees

County	Employment
Cocke	1,336
Regional Total	1,336

Note: Total Agricultural Employment in 1991 = 1336.

Table I-10

Employers by Industry in the Region, including Both Private and Public Entities in 1990

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+
Total	442	250	98	45	25	13	8	2	1	
Ag. Services, Forestry, Fisheries	7	6	1							
Mining	0									
Construction	32	20	6	5	1					
Manufacturing	36	11	3	5	4	5	6	1	1	
Transportation, Communication, Utilities	8	3	4	1						
Wholesale Trade	30	17	7	4	2					
Retail Trade	156	77	39	22	12	5	1			
Finance, Insurance, Real Estate	31	22	6	1		2				
Services	125	77	32	7	6	1	1	1		

Source: U.S. Department of Commerce, County Business Patterns, 1990, Tennessee

Table I-11

Regional Summary of Institutions Housing More than 100 Persons

County	Total Number of Institutions	Total Number of Students Prisoners/Residents	Estimated Quantity of Waste Generated*
Cocke	0	0	0
Regional Total	0	0	0

* Estimated from Waste Management, Inc. (5lbs./person/day)

Table I-12

**Summary Data on Major Health Care Facilities (larger than 50 beds)
(hospitals, nursing homes) in the Region**

County	No. of Facilities	No. of Beds	Infectious Waste Management		Est. Quantity of Solid Waste Generated*
			On Site/Offsite	Type Treatment	
Cocke	3	268	offsite	incineration	393 tpy
Regional Total	3	268	both	incineration	393 tpy

* Estimates from Waste Management, Inc. (16 lbs./person/day for hospitals, and 5 lbs./person/day for nursing homes)

Table I-13

Sources of Local Revenue Utilized in the Region

County	Property Tax	Local Sales Tax	Wheel Tax	Local Waste Collection Fee	User Fee/Tipping Fee	Other
Cocke	X	X			X	Hotel-Motel & County Mineral Severance Taxes
Regional Total	X	X			X	see above

Table I-14

Summary of Assessed Property Values, Property Tax Revenue, Local Sales and Sales Tax Revenues, and Number of Registered of Vehicles

County	1992 Total Assessed Property Value	1992 Total Property Tax Revenue	1992 Total Sales Subject to Local Sales Tax¹	1992 Total Local Sales Tax Revenue	1992 # Registered Vehicles	1992 Total Wheel Tax Revenue
Cocke	\$146,256,064	\$4,416,850	\$144,900,000	\$9,208,355	25,000	-0-
Regional Total	\$146,256,064	\$4,416,850	\$144,900,000	\$9,208,355	25,000	-0-

¹ According to Stan Chervin, Director of Research, Tennessee Department of Revenue

Regional economic factors are expected to affect future waste generation rates and quantities over the next ten years. According to the U.S. Department of Commerce's employment projections, Cocke County will experience only a modest increase in employment during the next two decades. Some possible impact from tourism might occur with increased visitation to the Great Smoky Mountains National Park impacting transportation and accommodations in Cocke County and with the expansion of the industrial park at Newport. As a result, waste generation is predicted to increase slightly over the next 10 years. Potential waste reduction could likely occur within the commercial and industrial sector of the County.

CHAPTER II.

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 68-211-815 (b)(2)]

With a few exceptions, data supporting this chapter is displayed in the Cocke County Profile, prepared for the County as a part of the District Needs Assessments (Chapters III, V, VI, VII, VIII, and IX).

A. WASTE STREAM CHARACTERIZATION

To date, there have been no detailed studies of the composition of Cocke County's solid waste stream. Therefore, for the purpose of this plan the national averages will be used for type of waste and tonnage.

Table II-1

Quantity of Solid Waste Received for Disposal/Incineration in Calendar 1991

Cocke County	Tons Disposed	Population (1991)	Waste Disposed Per Capita
Regional Total	32,547	29,166	1.12

Table II-2

**Origin of Regional Solid Waste in 1991
Tons Per Year**

Cocke County	Residential	Institutional/Commercial	Non-Hazardous Industrial	Special	Other
Regional Total	13,019	4,882	14,646	---	---

Table II-3

Acceptance of Certain Categories of Solid Waste for Disposal or Incineration

Coke County/ Facility	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
Regional Total	Y	325	N	---	Y	1,600	Y	18	N	---

*White Goods - discarded major appliances, such as refrigerators, ranges, etc.

Table II-4

Description of the Waste Stream By Materials

<u>Waste Category</u>	<u>National %</u>	<u>Calculated Regional Tons</u>
Paper & Paperboard	40.0	13,019
Glass	7.1	2,311
Ferrous Metals	6.5	2,115
Aluminum	1.4	456
Other Non-Ferrous Metals	0.6	195
Plastics	8.0	2,604
Rubber & Leather	2.5	814
Textiles	2.1	683
Wood	3.6	1,172
Food Waste	7.4	2,408
Yard Waste	17.6	5,729
Misc. Inorganic Waste	1.5	488
Other	<u>1.7</u>	<u>553</u>
TOTAL MUNICIPAL SOLID WASTE	100.0	32,547

With a large rural population residing in Coke County, yard waste percentages will be significantly lower than the national percentages. Paper and paperboard could likely be higher with waste products generated from Sonoco. Also, Quaker's waste generation could increase the metals, plastics, and food waste categories. Without an extensive solid waste characterization study, which would take a year to complete, it is difficult to determine specific category and percentage changes from the national figures for Coke County waste generation.

Table II-5

Unmanaged Waste*

Cocke County	Potential Waste Generation 1991 tpy	Actual Waste Disposed 1991 tpy	Unmanaged Waste 1991 (potential/actual) tpy	Percent of Potential Total
Regional Total	31,936	32,547	-610	2

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

A waste generation and recycling survey of Cocke County businesses was completed during mid-1993. The findings did not indicate any broad compositional differences than those noted in the national averages. These results can be found in Appendix C.

There are some minor special conditions that may affect the composition of the solid waste stream in the Region of Cocke County. According to the U.S. Department of Commerce's employment projections, Cocke County will experience only a modest increase in employment during the next two decades. Some possible impact from tourism might occur with increased visitation to the Great Smoky Mountains National Park impacting transportation and accommodations in Cocke County and with the expansion of the industrial park at Newport. As a result, waste generation is predicted to increase slightly over the next 10 years. Potential waste reduction could likely occur within the commercial and industrial sector of the County.

B. WASTE COLLECTION AND TRANSPORTATION SYSTEMS

The existing collection services and facilities in the planning region of Cocke County (County Profile of the District Needs Assessment, Chapter V, A.1-18.) are provided by both the County and the City of Newport. The City of Newport offers door-to-door collection to its residents, and the County offers solid waste collection services through a network of convenience center sites.

The estimated number of residents served in the Region of Coker County by the combined solid waste collection systems is listed below:

<u>Service Provider</u>	<u>Solid Waste Collection System</u>	<u>Number of Residents Served</u>
County	10 Convenience Centers	18,351
Newport	Door-to-Door Collection	10,815
Total Population Served		29,166

On October 1, 1993 Coker County implemented a major change in solid waste collection services for local businesses. Businesses and industries in the County are required to purchase their waste collection containers, and pay a \$5 per pick-up per container fee. Originally, the County provided solid waste containers ("green boxes") and collection service to its businesses without charge. Local residents also deposited household garbage in these containers.

In an effort to place restrictions and regulations on the placement of county waste disposal containers outside of the network of existing convenience centers, the County initiated the collection fee for local businesses. Funds raised from the fees will be placed in the County sanitation budget. The City provides free collection service to Newport businesses.

Solid waste collected by the County and City at residential and business locations is transported by County & City-owned collection vehicles to the Coker County Sanitary Landfill.

From the information gathered in the Needs Assessment, the existing collection system appears to service all residents in the Region. A regional map indicating the location of all facilities and service areas can be viewed on page II-11. The map illustrates the location of the existing ten (10) County owned and operated convenience centers and the service area of the door-to-door collection system for the City of Newport.

The convenience centers are distributed throughout the County; however, at present, there are no designated sites identified in the northern section of the County. The Centerview Census Division in the northern section of the County is estimated to have 3,022 residents living there, according to the 1990 Census figures. The nearest convenience center is located in Parrottsville. In order for residents living in the northern area of the County to utilize the convenience center system, a site could be located within a reasonable distance from these residents. The County has recognized the need to service the Centerview Division and is planning to locate one additional convenience center site in the near future in the northern section of the County.

C. SOURCE REDUCTION AND RECYCLING SYSTEMS

In the Region of Cocke County, both curbside and drop-off collections for recyclables are available. The City of Newport offers curbside service to all residents of the City, as well as providing drop-off boxes at the Newport Recycling Center. The curbside collection program is for commingled recyclables, separated by the operator into compartmentalized bins, and transported by truck to the City's recycling center to be processed and marketed.

The Newport Recycling Center takes in approximately 30 tons into its open front, open top man-made bins. The unincorporated areas of Cocke County are served by recycling drop-off facilities. Presently, a recycling drop-off program has been introduced into three of the convenience centers. Future plans may include integrating drop-off sites into the remaining convenience centers (existing or under construction). Since Cocke County has just initiated the drop-off recycling program at the convenience centers, quantities of materials collected are yet unknown.

Some private businesses are involved in recycling. The Wal-Mart store, located in Newport, has a drop-off container to collect recyclables. Sonoco provides a buy-back service for cardboard and paper products. Several industries in Cocke County have instituted private recycling programs, which are having some impact on the amount of waste disposed in the landfill. Also, residents of the County are participating in such activities as home composting.

A regional map indicating the location of all recycling and reduction programs and facilities can be viewed on page II-11.

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

It can be concluded from information gathered during the Needs Assessment that there are no existing waste processing, composting, and waste-to-energy/incineration facilities in the Region of Cocke County.

Regional Summary : Facilities

Table II-6 = Operating and Planned Composting Facilities in the Region.

Existing: None
Planned: None

Table II-7 = Municipal Solid Waste Incinerators or Waste-to-Energy Facilities in the Region.

Operating Facilities: None
Planned Facilities: None

E. DISPOSAL FACILITIES - LANDFILLS AND BALEFILLS

From information available in the Needs Assessment, it could be concluded that the existing and planned landfill capacity for Cocke County has not significantly changed. Tables II-8 through II-11, on the following pages, present specific data on the landfill capacity available to Cocke County.

Table II-8

Existing Municipal Solid Waste Landfills in the Region

Cocke County	Name of Landfill	Location	Permitted Capacity (Acres)	Current Rate of Waste Accepted (tons/day)	Remaining Capacity (tons)
Regional Total	Cocke County Sanitary Landfill	1160 Old Asheville Hwy, Newport	7.6	104	46,453*

*Assumes capacity from October 1993 until June 1995 @ 77,421 cu.yd. (1200 lbs/cu.yd.) = 1,200 lbs./2,000 lbs. X 77,421 cu.yd. = 46,453 tons (Source: Ogden Environmental, 1993).

Table II-9

Existing Landfills Expected to Close Before 2003

Cocke County	Location	Current Use (Tons/Day)	Current Annual Use (Tons/Year)	Anticipated Date of Closure
Regional Total	1160 Old Asheville Hwy, Newport	104*	32,547	6/95

*Assumes 312 days/year.

Table II-10

Planned Expansions and Planned New Facilities Which Will Operate for Ten Years or More

Cocke 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					
Cocke Sanitary Landfill	X		1160 Old Asheville Hwy, Newport	6/95		100 TPD	Yes
Planned New Regional Capacity			same	6/95		100 TPD	Yes

*Assumes 312 days/year.

Table II-11

Total Existing and Planned Capacity in the Region of Cocke County at the Close of the Next Ten Years

Year	TONS		
	Existing	Planned	Total
FY 1993	6,636*	---	6,636
FY 1994	26,544	---	26,544
FY 1995	13,273	---	13,273
FY 1996		0	0
FY 1997	---	0	0
FY 1998	---	0	0
FY 1999	---	0	0
FY 2000	---	0	0
FY 2001	---	0	0
FY 2002	---	0	0
FY 2003	---	0	0

Total Capacity 46,453

*Based on 3 months capacity from October through December 1993.

The County is planning to permit additional landfill space adjacent to its existing facility scheduled for closure by June 1995. Planned capacity means Part 1 & 2 of the permitting process are complete. Cocke County has completed Part 1 only.

The location of all disposal facilities (existing and planned) for the Region of Cocke County can be viewed on the regional map on the page II-11.

F. COSTS AND REVENUES FOR THE CURRENT SYSTEM

The following tables indicate the current system costs and revenues for Cocke County and Newport. Parrottsville does not provide solid waste services for its residents. In order to be consistent, when possible costs are broken down into either operating and maintenance or capital. With regard to revenues, applicable revenue bases and their rates are indicated. Since General Revenue Funds are often composed of a series of different monies, whenever the primary revenue source is property tax, the amount of the tax rate is indicated.

Table II-10

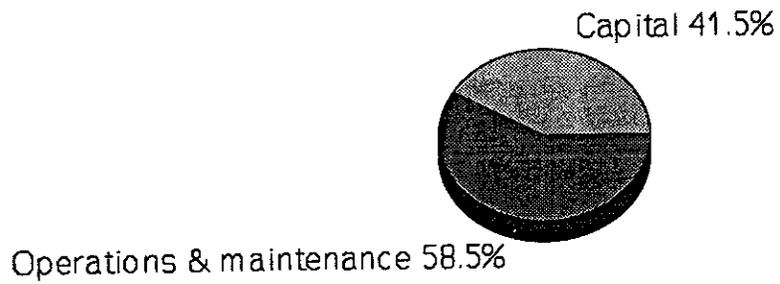
Cocke County System Costs and Revenues for Fiscal Year 1992-93

Cocke County FY'93				
COSTS:	Debits	Credits	Base	Rate
Operations & Maintenance	\$371,292			
Capital	263,000			
<i>Total</i>	\$634,292			
REVENUES:				
Refuse Disposal Charges		\$258,500	Tipping Fees	\$20/ton
Note Proceeds		260,000	3 yr. note (loan from local bank)	
Operating Transfers		167,700	Gen. Rev. Fund (Prop. Tax)	\$3.15/\$100
<i>Total (Solid Waste Share)</i>		\$686,200*		
Net Difference		\$51,908		
Total County Revenue (TCR)		\$3,870,000		
Solid Waste Share of TCR		4.3%*		

*This percentage share only includes monies from the operating transfer (\$167,700), since neither the Refuse Disposal Charges nor the Note Proceeds are included as part of the Total County Revenue.

NOTE: Households served in Cocke County: 7,110

Cocke County System Cost



Revenue

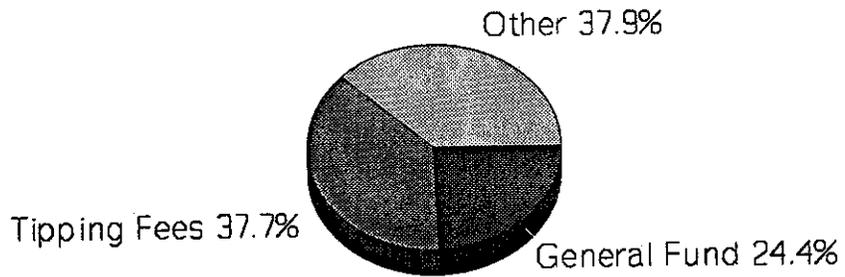


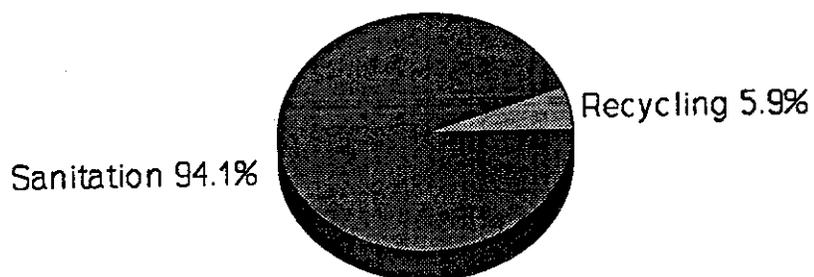
Table II-11

Newport System Costs and Revenues for Fiscal Year 1992-93

Newport FY'93				
COSTS:	Debits	Credits	Base	Rate
Sanitation: Oper., Maint., & Capital	\$281,550			
Recycling: Oper., Maint., & Capital	17,640			
<i>Total</i>	\$299,190			
REVENUES:				
Gen. Revenue Appropriation		\$297,637	N/A	
Recycling Revenue		1,553	N/A	
<i>Total (Solid Waste Share)</i>		\$299,190		
Net Difference		0		
Total City Revenue (TCR)		\$4,666,700		
Solid Waste Share of TCR		6.4%		

NOTE: Households served in Newport: 3,450

Newport System Cost



Revenue

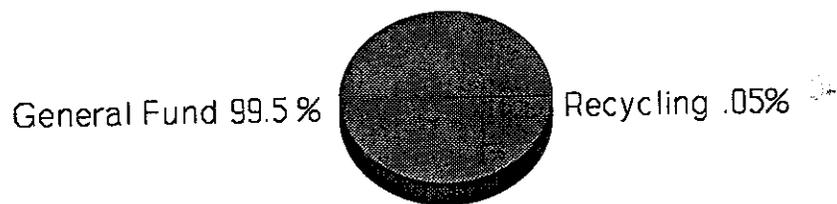
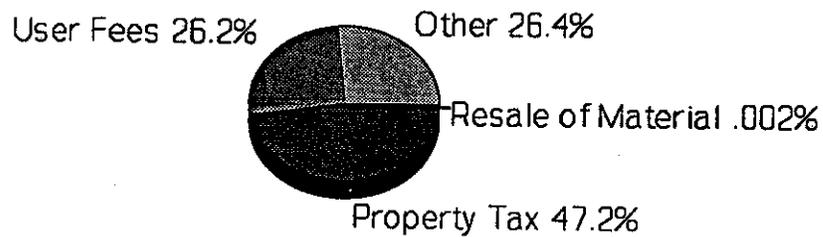


Table II-12

Cocke County Region FY'93 Revenue

Revenue	Amount
Property Tax	\$465,337
User Fees	\$258,500
Other	\$260,000
Resale of Recyclables	\$1,553
Total	\$985,390



G. PUBLIC INFORMATION AND EDUCATION PROGRAMS

Cocke County does not employ a full-time public information/education coordinator. However, Newport and Cocke County, jointly sponsor a solid waste/recycling education program entitled "CC/NEAT." This program has used a series of promotional and educational audio-visual techniques to reach the community. The organization Leadership E-4 also provides the community with solid waste/recycling information.

Another primary source of education programs within the County is through the local school systems. Both the Cocke County Schools and the Newport City Schools offer a recycling education program as part of their curriculum. The Newport Plain Talk publishes articles regarding solid waste, and WNPC-AM also features news stories on solid waste. Quaker Oats utilizes both of these mediums to promote and seek input on its recycling program.

A regional map indicating the location of local school systems and other community based education programs can be viewed on page II-11.

H. PROBLEM WASTES (See Chapter X).

Except for waste tires, no information concerning problem wastes was collected during the Needs Assessment. An analysis of existing solid waste management practices for all problem wastes will be discussed in Chapter X.

I. SYSTEM MAP FOR BASE YEAR (1993)

A composite map of the regional solid waste management system is provided on the following page. The map identifies the approximate location of the following existing system components for the Region of Cocke County:

1. Convenience center sites;
2. Solid waste and recycling collection service areas;
3. Recycling drop-off collection sites;
4. Waste flow patterns for solid waste generated and disposed in the County;
5. Material processing facility site (Recycling);
6. Class I landfill site; and
7. Educational program sites.

LEGEND

 CURBSIDE SOLID WASTE COLLECTION AND RECYCLING COLLECTION

 CONVENIENCE CENTER SITES

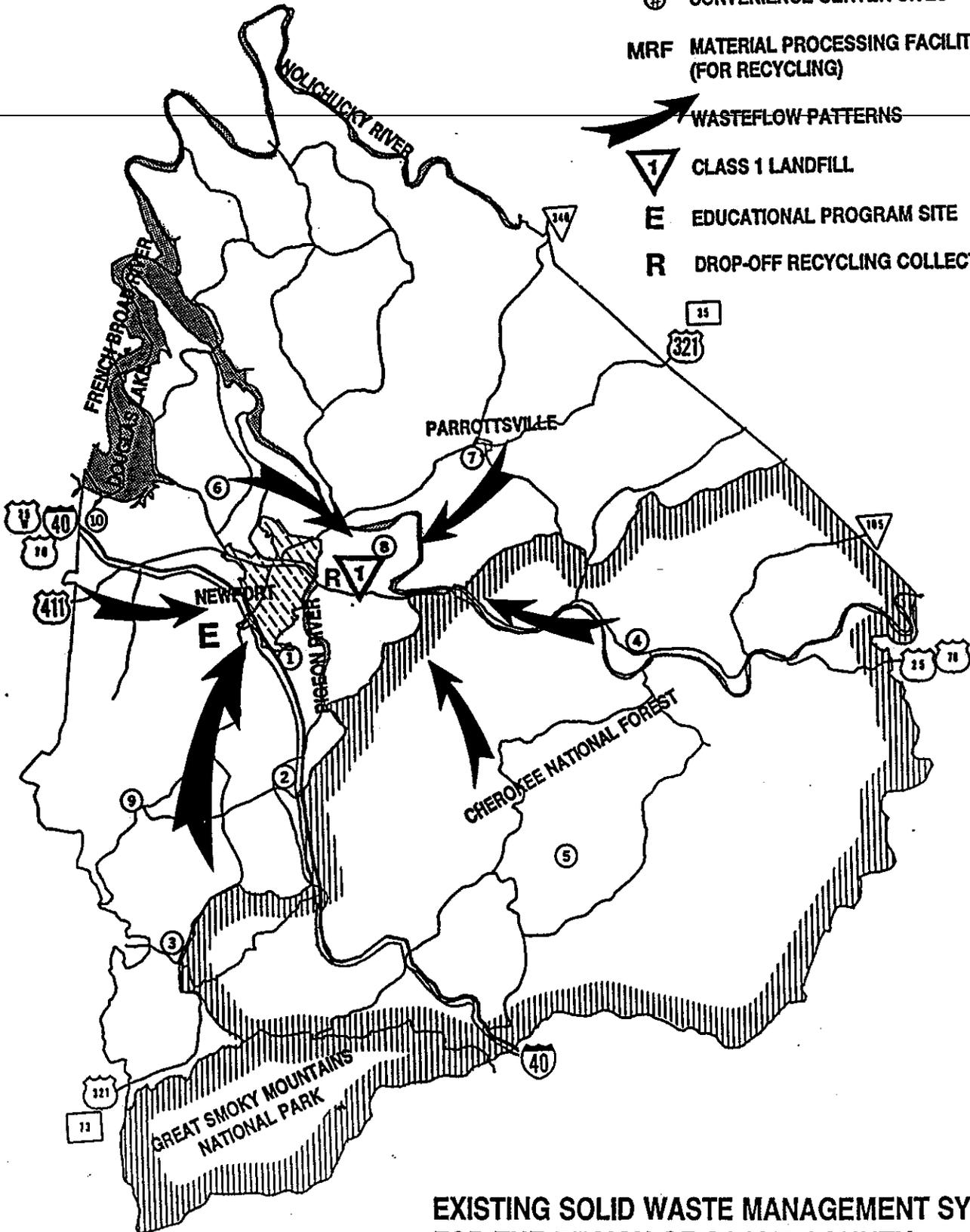
MRF MATERIAL PROCESSING FACILITY (FOR RECYCLING)

 WASTEFLOW PATTERNS

 CLASS 1 LANDFILL

E EDUCATIONAL PROGRAM SITE

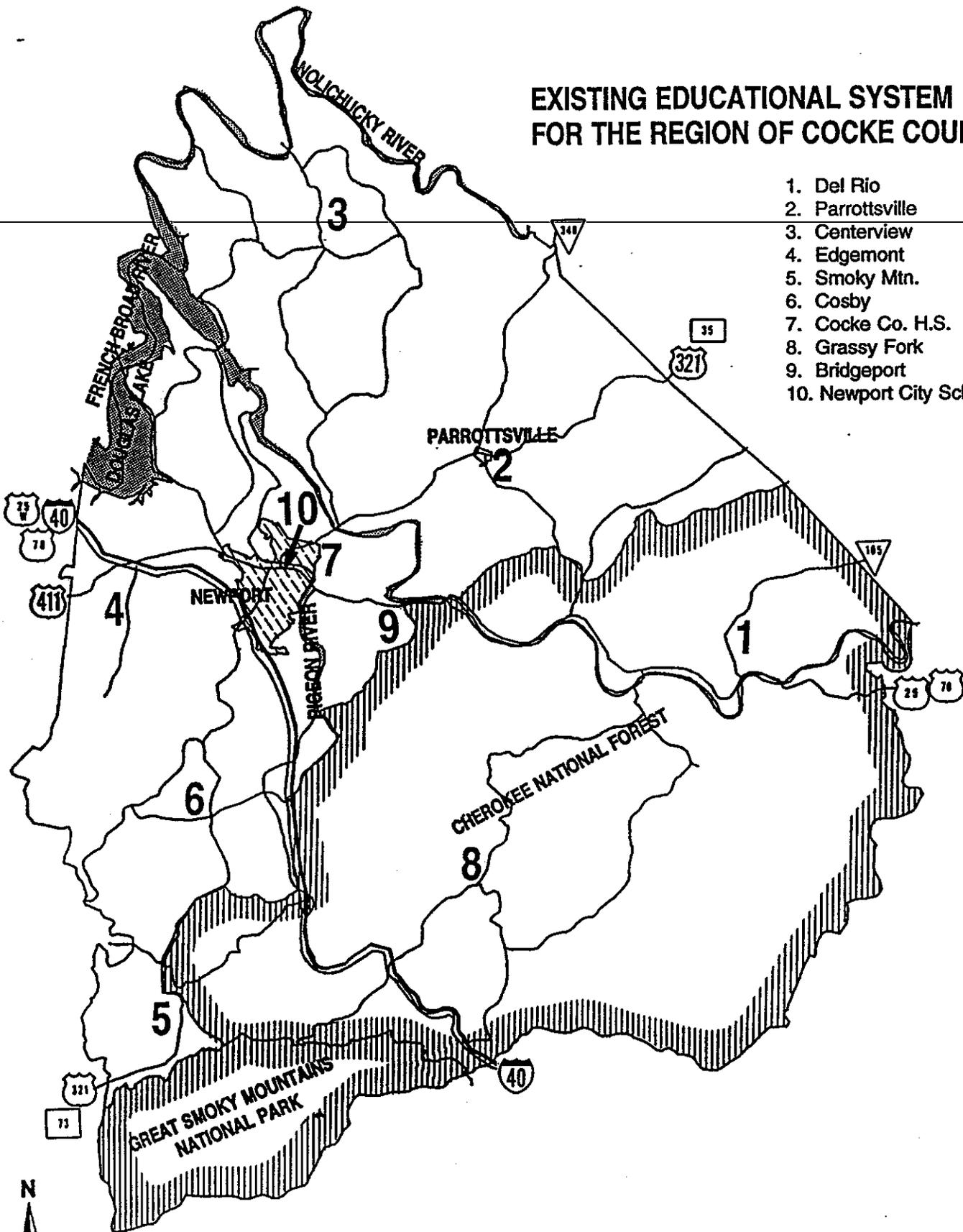
R DROP-OFF RECYCLING COLLECTION SITE



EXISTING SOLID WASTE MANAGEMENT SYSTEM FOR THE REGION OF COCKE COUNTY

EXISTING EDUCATIONAL SYSTEM FOR THE REGION OF COCKE COUNTY

1. Del Rio
2. Parrottsville
3. Centerview
4. Edgemont
5. Smoky Mtn.
6. Cosby
7. Cocke Co. H.S.
8. Grassy Fork
9. Bridgeport
10. Newport City School



J. STRENGTHS AND WEAKNESSES OF EXISTING SYSTEM

25% Waste Reduction: From the information gathered during the Needs Assessment, it can be determined that Newport Recycling diverted approximately 45 tons of recyclable materials from the landfill in 1991. Several major commercial and industrial businesses are reducing their waste stream by collecting recyclable materials during in-house operations. From those businesses with documented information, 752 tons of recyclable materials was diverted from the County landfill in 1991.

The City of Newport had operated a Class IV demolition site before closing the facility in 1993. This disposal area was utilized for diverting demolition waste from the Class 1 landfill, which helped in achieving the 25% waste reduction per capita by 1995. However, with the Class IV landfill closing in 1993, the City will need to implement some other method of waste reduction in order to continue reaching the 1995 goal.

In order for the County to meet the minimum 25% waste reduction per capita required by December, 1995, Cocke County will also need to consider a comprehensive waste reduction program involving local residents, institutions and area businesses.

County-wide Collection Service: The City of Newport offers door-to-door collection to its residents, and the County offers solid waste collection services through a network of 10 convenience center sites. The convenience centers are distributed throughout the County, however, at present, there are no designated sites identified in the northern section of the County. The Centerview Census Division in the northern section of the County is estimated at having 3,022 residents living there according to the 1990 Census figures. The nearest convenience center is located in Parrottsville. In order for residents living in the northern area of the County to utilize the convenience center system, a site could be located within a reasonable distance from these residents. The County has recognized the need to service the Centerview Division and is planning to locate one additional convenience center site in the near future in the northern section of the County.

Solid Waste Education: Although solid waste and recycling education curriculum is available to any interested teacher, it is left to the individual teacher to decide whether to integrate this into their daily curriculum. With the joint Newport/Cocke County educational program which began in 1992, solid waste and recycling curriculum was integrated more consistently into daily lesson plans for the County and City schools.

More effort is needed in presenting solid waste education to the adult population of the County. Quaker Oats presents their recycling program in the local newspaper, and the E-4 organization addresses solid waste issues to the local community. A comprehensive solid waste education program could consolidate local organization and business educational programs to meet mutual goals of educating residents of Cocke County. Cocke County has initiated the certification process for a Keep America Beautiful program to provide a comprehensive solid waste education to all citizens of the County.

Household Hazardous Waste: No plans have been made to establish a County collection program of household hazardous waste. The County will have to plan a collection program by providing a secure collection site for household hazardous waste in cooperation with the state mobile service for collection, packaging and disposal of household hazardous wastes in each county.

Ten-Year Disposal Capacity Assurance: If the County is successful in obtaining a modified closure plan for the landfill to continue disposal until June, 1995, they will be assured of a waste disposal capacity for the next 21 months. The County has also initiated the permitting process for an extension to the existing landfill for additional disposal capacity for the remaining 8 years and beyond. If the County does not complete the permit process and/or are unable to finance the proposed new facility, the County will experience serious shortfalls in disposal capacity after June, 1995. The County will need to address this projected disposal shortfall within the County through some arrangement for solid waste disposal in an adjoining county where a Class 1 landfill exists.

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)]

In this chapter the Region of Cocke County defined probable growth trends, and determined how much waste it will be required to manage in each year of the ten-year planning period (1994-2003). In defining the regional solid waste management demand, the Region of Cocke County carried out a regional analysis following the same methodology and reporting format used by the District Needs Assessment. Next, the regional plan states which of the possible components of an integrated waste management system is considered in the plan, how much of the waste stream might be managed by each, and how components will be evaluated.

A. PROJECTED REGIONAL DEMAND

For the Region of Cocke County, waste projections were reviewed in the County Profile in the District Needs Assessment, Chapter IV., A(1) through (7). A comparison of the annual per capita generation rates from 1989 to 1992 indicates a slight increase, as seen from Table III-1 below. Therefore, the 1992 per capita was used as the base rate to calculate the 10-year waste projections to adequately reflect the waste generation rate for Cocke County.

The following Table, summarizes calculations of annual per capita solid waste generation rates, for Region of Cocke County.

Table III-1*

Year	1989	1991	1992**
Annual Tons	32,781	32,547	34,670
Population	29,450	29,166	29,173
Per Capita	1.11	1.12	1.19

* Methodology from Items 2, 3 and 4 in Chapter IV.A of the Needs Assessment for Cocke County Profile.

** Because 1993 data was not available when the plan was prepared, 1992 data was utilized for the 10-year waste projections.

The projected quantity of solid waste requiring disposal (generation) in the Region of Cocke County is summarized in each projected year, adjusted for population changes.

Table III-2*

Quantity of Solid Waste Requiring Disposal (tons)

Cocke County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total	34,761	34,803	34,805	34,828	34,850	32,866	34,888	34,836	34,775	34,718

* Methodology from Tables IV-1 in Needs Assessment for Cocke County Profile, as extended.

The projected quantity of solid waste requiring disposal in the Region of Cocke County is summarized 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**

Cocke County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total	35,943	36,022	36,063	36,125	36,190	36,249	36,315	36,309	36,295	36,287

* Methodology from Table IV-3 in Needs Assessment for Cocke County Profile, as extended.

The projected quantities of solid waste requiring disposal (= generation) is summarized below 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**

Cocke County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total	25,941	24,348	24,349	24,349	24,382	24,392	24,408	24,371	24,329	24,288

* Methodology from Table IV-4 in Needs Assessment of Cocke County Profile, as extended.

Note: 1994 assumes 20% per capita reduction plus an additional 3.2% reduction for economic growth, and .08 per capita reduction for the per capita increase from 1989 to 1992.
1995 - 2003 assumes 25% per capita reduction plus an additional 3.2% reduction for economic growth, and .08 per capita reduction for the per capita increase from 1989 to 1992.

B. REGIONAL DEMAND/SUPPLY

Table III-5 is not applicable to Cocke County.

Table III-6 is omitted because no special factor adjustments were claimed by the region.

Table III-7 is not applicable to Cocke County.

Table III-8

Annual Projections of Solid Waste Requiring Disposal Adjusted for All Applicable Factors (in tons/year)

Cocke County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total	25,941	24,348	24,349	24,349	24,382	24,392	24,408	24,371	24,329	24,288

This projected amount of waste represents the **regional demand** for solid waste management services, facilities and programs. This demand is compared with the **current system supply** and planned additions to the current system (as described in Chapter II) to define the **regional needs in each projection year** as illustrated in Table III-9 below.

Table III-9

Projected Demand and Supply, and Identification of Potential Shortfalls or Surplus in Disposal Capacity (in tons/year)

Year	DEMAND: Tons of Waste Requiring Disposal	SUPPLY: Existing & Planned Capacity	Surplus (+)	Shortfall (-)
1994	25,941	26,544	603	
1995	24,348	13,273		10,472*
1996	24,349	0		24,349
1997	24,349	0		24,349
1998	24,382	0		24,382
1999	24,392	0		24,392
2000	24,408	0		24,408
2001	24,371	0		24,371
2002	24,329	0		24,329
2003	24,288	0		24,288

* Includes surplus from previous years.

The County is planning to permit additional landfill space adjacent to its existing facility scheduled for closure by June, 1995. Planned capacity means Part 1 & 2 of the permitting process are complete. Cocke County has completed Part 1 only.

C. PRELIMINARY SYSTEM DESIGN

The elements of an integrated waste management system to be considered in the Region of Cocke County could include waste reduction (air curtain destructor), recycling and landfilling. The percentages of the total projected quantity of waste to be handled by each major component by 1995 is estimated in the Table below.

Table III-10

Preliminary System Design by 1995 (planned)

System Component	Tons of Total Waste Stream Managed in Planned System Design	% of Total Waste Stream Managed in Planned System Design (by 1995)	% of Total Waste Stream Managed in Existing System Design (1991)
Waste Reduction: Air Curtain Destructor	8,793	24	0
Recycling: Commercial/Industrial	1,801	5	2.2
Residential	1,080	3	.1
Landfilling	24,348	68	97.7
Total	36,022	100	100

From the Table above, it can be seen that the greatest change expected between the existing and planned percentages of total waste stream managed by each system component is in waste reduction by utilizing an air curtain destructor, residential and commercial/industrial recycling.

The closing of the Cocke County Class 1 Landfill is predicted to occur by June, 1995. By operating an air curtain destructor, the Region could significantly reduce the waste stream for disposal at a new Class 1 landfill, or reduce the amount if waste must be exported for disposal at an adjoining County's Class 1 landfill.

The commercial and industrial recycling efforts in the County continue to divert a large percentage of the total waste stream. This effort is expected to continue if not increase for the Region as tipping fees are expected to increase.

Planned residential recycling will also be an added component to the solid waste management system.

After each system component has been evaluated in Chapters IV-X, these tentative decisions will be revisited in Chapter XI, where they may be confirmed or revised, as a result of the detailed analyses of each component.

D. EVALUATION CRITERIA FOR THE REGION

The solid waste management system options will be carefully evaluated in the next seven chapters. A final selection of system elements and configurations will be determined in each chapter using evaluation criteria listed in the planning guidelines.

The evaluation criterion includes: institutional compatibility; number and size of facilities needed to meet defined regional needs; evaluation of regional markets for recovered materials, fuel or energy; capital and annual operating costs; unit costs (cost per ton of waste); citing and regulatory requirements; environmental impacts; public acceptance; and other criteria selected by the Regional Board.

CHAPTER IV
WASTE REDUCTION

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 68-211-861(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 68-211-861(a)]; and Section 14(b)10. [T.C.A. Section 68-211-815(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 68-211-861(f)]

A. ESTABLISHING A BASE YEAR QUANTITY

The quantity of solid waste generated and disposed of in calendar 1989 for the Region of Cocke County is provided below in Table IV-1. (This data is available in the UT Report entitled "Managing Our Waste: Solid Waste Planning in Tennessee," published in February 1990).

Table IV-1

Quantity of Solid Waste Generated and Disposed in Calendar 1989

Cocke County	Tons Disposed	Population (1989)	Waste Disposed Per Capita
Regional Total	32,781	29,450	1.11

B. A TARGET 1995 WASTE REDUCTION PER CAPITA DISPOSAL GOAL

To calculate the value of a 25% reduction in the per capita quantity of waste disposed, in tons/person/year, the following equation is used:

$$\frac{\text{Average 1989 per capita rate}}{\text{(tons/person/year)}} \times .25 = \text{Target 1995 per capita reduction} \text{ (tons/person/year)}$$

$$1.11 \times .25 = \underline{.2775}$$

The target per capita reduction is then multiplied by the regional population projection for 1995 (from Chapter III, Table III-1, Column 2) to determine the quantity of waste in tons, that must be reduced at the source, or diverted to alternative treatment options, if the Region is to meet the statutory goal by December 31, 1995.

$$\text{1995 target per capita reduction (tons/person/year)} \times \text{1995 population (persons)}$$

$$= \text{1995 target reduction in tons/year}$$

$$.2775 \times 29,246 = \underline{8,115 \text{ target reduction in tons/year}}$$

Note: An additional 1,219 tons (3.2% annual economic growth index), and an additional 2,340 tons (.08 per capita increase from 1989 to 1992) for 1995 needs to be reduced to compensate for the projected annual economic growth in Cocke County and the per capita increase from the base year 1989 to 1992.

$$8,115 + 1,219 + 2,340 = \underline{11,674 \text{ total targeted tons/year in reduction for 1995.}}$$

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

As indicated in Chapter III for the preliminary system design, the Region plans to reduce waste by 25% per capita by 1995 and continue a 25% per capita reduction through the year 2003 by implementing a regional recycling program for the residential and private sector, as well as designing a waste reduction program to divert solid waste disposed at a Class 1 landfill to a permitted air curtain destructor in the Region. The air curtain destructor is operated by both the City of Newport and Cocke County. The total targeted amount of tons for Cocke County to reduce in 1995 is 11,674 tons. (An additional 3.2% is also added to reflect annual economic growth in Cocke County for 1995, and an additional .08 per capita is added for the increase in per capita from 1989 to 1992).

Recycling Program

A quantitative allocation of the 1995 waste reduction target concerning recycling by material (recyclables, yard waste, etc.), by economic sector (residential and private), and by year (1994, 1995, or beyond) is provided below in Table IV-2.

Table IV-2

Waste Reduction Target for Recycling Program

Economic Sector	Residential Sector (Cities and County)		Private Sector (Commercial, Institutional & Industrial)	TOTAL TONS	
	Material	Recyclables*	Yardwaste		Recyclables*
Year					
1994		1,078		1,797	2,875
1995		1,080		1,801	2,881
1996		1,081		1,803	2,884
1997		1,083		1,806	2,889
1998		1,085		1,809	2,894
1999		1,087		1,812	2,899
2000		1,089		1,815	2,904
2001		1,089		1,815	2,904
2002		1,088		1,814	2,902
2003		1,088		1,814	2,902

* Recyclables include newspaper, mixed paper, cardboard, glass, steel cans, aluminum cans, plastic containers, wood pallets, waste oil, etc.

Waste Reduction Program

A description of the combination of strategies (recycling and waste reduction) to be used to meet the target amount is provided in Table IV-3 below.

**TABLE IV-3
Estimated Quantities of Waste Removed or Diverted From the Waste Stream (tons)**

Year	Previous Reductions	Recovered & Recycled	Diverted to Alternative Disposal	Economic Incentives	Air Curtain Destructor	Total
1985 to 1989						
1990						
1991						
1992						
1993						
1994		2,875			7,127	10,002
1995		2,881			8,793	11,674
Subtotal		5,756			15,920	21,676
1996		2,884			8,830	11,714
1997		2,889			8,887	11,776
1998		2,894			8,914	11,808
1999		2,899			8,958	11,857
2000		2,904			9,003	11,907
2001		2,904			9,034	11,938
2002		2,902			9,064	11,966
2003		2,902			9,097	11,999
TOTAL		28,934			87,707	116,641

Table IV-4 below estimates the quantity of each material recovered/recycled in 1995 (based upon 2,875 tons), which will be achieved by each source sector. Table IV-5 estimates the quantity of the 1995 reduction, by source sector. Any additional reduction, such as a Class IV diversion, is not included in the allocation.

Table IV-4

Quantitative Material Allocation (tons/year)

Material	Quantity of Waste	Percent of Total
Paper	1,587	55.3%
Glass	233	8.1%
Aluminum Cans	101	3.6%
Plastic	451	15.7%
Ferrous Metals	178	6.2%
Yard Waste	325	11.1%
Total	2,875	100.0%

Table IV-5

Source Sector (tons/year)

Source Sector	Quantity of Waste	Percent of Total
Residential	1,078	37%
Commercial/Industry	1,797	63%
Total	2,875	100%

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

Staffing Requirements:

The total 10-year staffing for the regional waste reduction strategies (not addressed in other chapters) in Cocke County should include the following:

<u>Program</u>	<u>Number of Staff</u>
Air Curtain Operator	1 full-time
Data Collection & Plan Updates	1 full-time*

* Data collection for plan updates and annual reports to be executed by one staff person for all planning elements.

Note: Staffing for the regional recycling program will be addressed in Chapter VI.

Budget:

A ten year budget, including both capital and annual operating costs, has been prepared below to summarize the total costs of the air curtain destructor.

Table IV-4

Capital and Operating Costs for Air Curtain Destructor

Class III Waste	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs:										
Equipment:	\$30,000									
Total Capital Costs:	\$30,000									
Operation Costs:										
Personnel:*										
Operation & Maintenance:	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540
Sub-Total:	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540	\$15,540
Cost of Living:		\$528	\$1,057	\$1,585	\$2,113	\$2,642	\$3,170	\$3,699	\$4,227	\$4,755
Total Operation Costs:	\$15,540	\$16,038	\$16,597	\$17,125	\$17,653	\$18,188	\$18,710	\$19,239	\$19,767	\$20,295
Sinking Fund:		\$4,286	\$4,286	\$4,286	\$4,286	\$4,286	\$4,286	\$4,286	\$4,286	\$4,286
Total Capital and Operation Costs:	\$45,540	\$20,324	\$20,883	\$21,411	\$21,939	\$22,468	\$22,996	\$23,525	\$24,053	\$24,581

Budget Information

* Personnel that work at the Class I landfill will also operate the air curtain destructor.

** Assumption machine being used 3 hours a day for 259 days a year.
\$20 an hour for fuel and maintenance of machine.

*** Cost of Living Index is 3.4%.

**** Replacement of machine every seven years.

Financing Plan:

The Region's financing plan for capital and operating costs for the air curtain destructor will include appropriations from the general fund and revenues from the tipping fee (\$20/ton for 1993). Both the City of Newport and Cocke County will share in the capital and operating costs of the program. Financing for the waste reduction program will be addressed in greater detail in Chapter XI.

Annual Funding Plan for Waste Reduction Program

Sources of Revenue	Amount of Revenue	Proportion of Individual Source
General Fund	\$10,000	50%
User Fees	\$10,000	50%
Total	\$20,000	100%

E. 10-YEAR IMPLEMENTATION SCHEDULE FOR ALL WASTE REDUCTION STRATEGIES

Table IV-5

Implementation Schedule for All Waste Reduction Strategies

Programs	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Purchase & Operation of Air Curtain Destructor	X										County & City	\$30,000	General Funds
Class IV Landfill Permit		X									County	N/A	N/A
Class IV Landfill Costruction & Operation			X								County	\$150,000	Tipping Fees
Integrate Recycling with Convenience Centers		X		X	X	X	X	X	X		County	\$4,477	General Fund/ Tipping Fees
Integrate Recycling with Door-to-Door Collection	X										City	20,000	Solid Waste Fee
Purchase Recycling Equipment		X									County & Cities	\$20,000	State Grants

F. RESPONSIBILITY FOR IMPLEMENTING THE PLAN

The responsibility for implementing the waste reduction plan will be shared between the City of Newport and the County. The County will continue to encourage commercial and industrial waste reduction through sponsored waste reduction workshops and waste exchange publications. The County and the City of Newport will continue to strengthen the regional recycling program for residential use.

The permit to operate an air curtain destructor was received in 1994. The purchase and operation of the air curtain destructor also began in 1994. Both the City of Newport and the County will share in the expenditures to finance this program.

The first milestone for meeting the 25% waste reduction goal will occur by December 31, 1995. The second milestone occurs during the period when the plan is to be updated. The County will be primarily responsible for documenting progress of the Region in achieving and maintaining the waste reduction goal identified in this chapter.

G. REGIONAL DATA COLLECTION / ANNUAL PROGRESS REPORTS

As per T.C.A. Sections 68-211-863(b), the Region of Cocke County must report to the State Planning Office annually the quantities and types of recyclable materials collected. Regional data collection will be maintained in monthly, quarterly and annual reports by quantities and types of recyclables collected in the Region by a qualified staff person. Annual progress reports, utilizing information gathered in Tables IV-2 and IV-3, will be submitted to the State Planning Office. Annual reports will also include the amount of waste reduced by the air curtain destructor.

CHAPTER V

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. EXISTING COLLECTION SYSTEM

The existing collection system (as described in Chapter II) for the Region of Cocke County is compared below with the standards established by the Convenience Center Rule, 1200-1-7, for number, location and design of collection facilities (convenience centers) [T.C.A. 68-31-851(b)]. Unserved areas in the region are also identified.

The existing collection services and facilities in the planning region of Cocke County (County Profile of the District Needs Assessment, Chapter V, A.1-18.) are provided by both the County and the City of Newport. The City of Newport offers door-to-door collection to its residents, and the County offers solid waste collection services through a network of convenience center sites. Each convenience center is open to the public for 24 hours weekly. Operating hours are posted at each site entrance. Flyers, advertising the operating hours of the sites are available to the public.

The number of households served in the Region of Cocke County by the combined solid waste collection systems is listed below:

<u>Service Provider</u>	<u>Solid Waste Collection System</u>	<u>Number of Residents Served</u>
County	10 Convenience Centers	18,351
Newport	Door-to-Door Collection	10,815
	Total Population Served	29,166

On October 1, 1993, Cocke County implemented a major change in solid waste collection services for local businesses. Businesses and industries in the County are required to purchase their waste collection containers, and pay a \$5 per pick-up per container fee. Originally, the County provided solid waste containers ("green boxes") and collection service to its businesses without charge. Local residents also deposited household garbage in these containers.

In an effort to place restrictions and regulations on the placement of county waste disposal containers outside of the network of existing convenience centers, the County initiated the collection fee for local businesses. Funds raised from the fees will be placed in the County sanitation budget. The City provides free collection service to Newport businesses.

Solid waste collected by the County and City at residential and business locations is transported by County & City-owned collection vehicles to the Cocke County Sanitary Landfill. The City operates three (3) rear-end loaders, and the County operates two (2) front-end loaders.

From the information gathered in the Needs Assessment, the existing collection system appears to service all residents in the Region. A regional map indicating the location of all facilities and service areas can be viewed at the end of the chapter. The map illustrates the location of the existing ten (10) County owned and operated convenience centers and the service area of the door-to-door collection system for the City of Newport.

The convenience centers are distributed throughout the County, however, at present, there are no designated sites identified in the northern section of the County. The Centerview Census Division in the northern section of the County is estimated at having 3,022 residents living there, according to the 1990 Census figures. The nearest convenience center is located in Parrottsville. In order for residents living in the northern area of the County to utilize the convenience center system, a site could be located within a reasonable distance from these residents. The County has recognized the need to service the Centerview Division and is planning to locate one additional convenience center site in the near future in the northern section of the County.

Number of Convenience Centers Required in Cocke County

As per Convenience Center Rule (1200-1-7), the minimum level of solid waste collection service is:

- A. Household collection - A county shall be deemed to have met minimum level of service if at least 90% of all residents have access to household collection.
- B. Convenience centers - A county shall be deemed to have a minimum level of service if convenience centers are established.

The minimum number of centers shall be established as follows:

- 1) The service area in square miles divided by 180 square miles or;
434.4 square miles - 4.3 square miles (Newport)
- 193.9 square miles (Cherokee) =
236.2 square miles - 180 square miles = **1.3**

- 2) The service area population divided by 12,000.

4,081 households X 2.65 people/household = 10,815 people served
29,166 population - 10,815 people served = 18,351 people unserved 18,351
service area - 12,000 = **1.5**

Presently, the County is constructing and operating a Convenience Center system in the unincorporated areas of the County. The following page summarize an inventory of the Convenience Center sites, and their location, according to the minimum level of compliance with the Convenience Center Rule 1200-1-7.

TABLE V-1
CONVENIENCE CENTER INVENTORY (JUNE 1993)

	1	2	3	4	5	6	7	8	9	10	11
DESIGN/OPERATION STANDARDS	Morrill Springs	Wilton Springs	Cosby Road	Del Rio	Grassy Fork	Rankin Road	Parrottsville	Landfill	Bogard	Reedtown	Bybee
ACCESS • Fence • Hours posted	Fence Yes	Fence	Fence	Fence	Fence	Fence	Fence	Fence - Open 24 Hours	Under Construction	Under Construction	
DUST/MUD CONTROL • Paved/compacted stone	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Paved			
RUN-OFF CONTROL • Proper grading	Yes										
FIRE SAFETY • Fire suppression equipment • Fire department support	Planned										
COMMUNICATION • On-site equipment	Planned										
PERSONNEL FACILITIES • Office building • Sanitary facilities	Building	Building	Building	Planned Building	Building	Building	Building	Building			
WATER • Equipment and facility	NA										
PROCESS WATER • Compaction equipment	NA										
WASTE HANDLING • Litter maintenance • Containers on compacted stone/pavement	Yes										
FACILITY SUPERVISION • Personnel present • Training completed	Yes	Yes	Yes				Yes	None			
SITE PERMITTED	Planned	Planned	No	Planned	No	Planned	Planned	No	Planned	Planned	
SPECIAL WASTE	NA										
WASTE CONTAINERS • 6 cubic yard • Number	12	16	16	Planned	14	16	14	10			
RECYCLING	Newspaper Plastic Aluminum Motor Oil	Planned	Planned	Planned	Planned	Motor Oil	Planned	Motor Oil	Planned	Planned	

B. REGIONAL NEEDS FOR COLLECTION SERVICE

Identified regional needs to provide adequate service to all residents and to meet the criteria of the Convenience Center Rule 1200-1-7 are:

- 1) address unserved areas
- 2) integrate recycling program with collection system
- 3) expand the collection for the next 10 years
- 4) upgrade permitted convenience center sites to meet regulations
- 5) cost-effectiveness

Given the required number of convenience centers by state regulations, the County has already addresses the unserved areas in Cocke County with the construction of the existing ten (10) convenience center sites.

The existing collection system in Cocke County, including Newport, will successfully accommodate recycling services. The City of Newport has expanded its curbside recycling services to all city residents. The County has integrated a recycling collection program within the convenience center system. Three sites are presently collecting recyclables, and plans are underway to accept recyclables at the remaining sites.

The existing collection system will need to expand to meet the changing needs of the County over the next 10 years. Solid waste is presently being disposed of in 6 cubic yard dumpsters at the County convenience centers. The County may need to consider purchasing new equipment, such as, compactors or larger containers. Not only will the old containers need to be replaced within the 10 year period, but the County may find a need to minimize loading time with larger containers or loads.

In addition, the County is considering an alternative disposal plan in the event that the new landfill acreage is not successfully permitted, designed and constructed by October, 1996. The County will need to consider transporting waste out of county to an adjoining county. With this alternative disposal plan, the County could consider constructing a transfer station at the Rankin Road Convenience Center site.

From the table on the previous page, it can be seen that several convenience center sites will need to be upgraded to meet state regulations.

The most important regional need to provide adequate service to all residents is cost-effectiveness. The County is faced with numerous financial obligations during the 10-year planning phase.

C. COLLECTION SYSTEM IMPLEMENTATION

**Table V-2
Ten Year Implementation Schedule for Collection Program**

Collection	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Continue Door to Door Collection	X										Cities & Private Haulers	Varies	Solid Waste Fee
Establish Standards for Private Haulers		X									State	N/A	N/A
Bring Convenience Centers Up to State Standards			X	X	X	X	X	X	X	X	County	\$6,000	State Grant
Manned Convenience Centers	X										County	\$120,907	General Fund
Certification of Staff			X								State	N/A	N/A
Plan Updates	X					X					Solid Waste Board	N/A	N/A
Annual Reports	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X= Solid Waste Coordinator	\$25,000	Tipping Fees

Upgrading the convenience center system should begin in 1995 with the purchase of communication equipment. Run-off control will be established for several sites as needed and convenience center permits will be obtained by the County through the State of Tennessee Department of Environment and Conservation, Division of Solid Waste Management.

Any 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;
- Volume of waste received or collected by the existing systems.

This evaluation report will be submitted to the State Planning Office on July 1, 1995 and each year thereafter.

The intent of the evaluation is to clearly determine whether the existing system is adequately providing solid waste collection and disposal service to residents of the County.

D. TOTAL 10-YEAR STAFFING AND TRAINING NEEDS

The total 10-year staffing for the regional collection and transportation system in Cocke County should include:

<u>Program</u>	<u>Number of Staff</u>
Convenience Center	11 personnel (38 hrs/week)
Transportation	1 full-time
Data Collection & Plan Updates	1 full-time*

* Data collection for plan updates and annual reports should be executed by the solid waste coordinator.

Training for all collection and transportation staff will be provided by the Department of Environment and Conservation [T.C.A. Section 68-211-851(c)].

E. 10-YEAR BUDGET

A ten year budget, including both capital and annual operating costs, has been prepared below to summarize the total costs of the regional collection system.

**Table V-3
Capital and Operating Costs for Collection/Transportation System**

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Convenience Centers:										
Capital Costs:										
Construction:	\$6,000	\$27,688								
Equipment:		\$7,500	\$11,785	\$11,785	\$11,785	\$11,785	\$11,785	\$11,785	\$11,785	\$11,785
Rent:	\$3,480	\$3,480	\$3,480	\$3,480	\$3,480	\$3,480	\$3,480	\$3,480	\$3,480	\$3,480
Total Capital Costs:	\$9,480	\$38,668	\$15,265	\$15,265	\$15,265	\$15,265	\$15,265	\$15,265	\$15,265	\$15,265
Operation Costs:										
Personnel:	\$120,907	\$120,907	\$120,907	\$120,907	\$120,907	\$120,907	\$120,907	\$120,907	\$120,907	\$120,907
Transportation:	\$39,674	\$39,674	\$39,674	\$39,674	\$39,674	\$39,674	\$39,674	\$39,674	\$39,674	\$39,674
Landfill Fee:	\$142,200	\$142,200	\$142,200	\$142,200	\$142,200	\$142,200	\$142,200	\$142,200	\$142,200	\$142,200
Sub-Total:	\$302,781	\$302,781	\$302,781	\$302,781	\$302,781	\$302,781	\$302,781	\$302,781	\$302,781	\$302,781
Cost of Living:		\$10,295	\$20,589	\$30,884	\$41,178	\$51,473	\$61,767	\$72,062	\$82,356	\$92,651
Total Operational Cost:	\$302,781	\$313,075	\$323,370	\$333,665	\$343,959	\$354,254	\$364,548	\$374,843	\$385,137	\$395,432
Total Capital & Operational Costs:	\$312,261	\$351,743	\$338,635	\$348,930	\$359,224	\$369,519	\$379,813	\$390,108	\$400,402	\$410,697

Budget Information

1. Construction: Assumption that one more convenience center will be built in the centerview district.
2. Equipment: Assumption that green boxes need to be replaced every seven years.
3. Personnel: 11 people at \$4.45/hr x 38 hours x 25% fringe benefits.
4. Transportation: Based on 7110 tons/yr of waste at convenience centers x \$5.58 per ton for collection and transferring 15 miles.
5. Disposal Fee: Using current rate of \$20 per ton.

F. Funding Plan

The region's financing plan for capital costs will include appropriations from the general fund. Funding from property taxes will serve as the basis of Cocke County's collection and transportation system. Also, the County will apply for a convenience center grant from the Tennessee Department of Environment and Conservation, Division of Solid Waste Assistance. The estimated amount of the grant is \$50,000 per County.

The region will also fund annual operating and maintenance costs through appropriations from the General Fund.

Table V-4

Annual Funding Plan for Collection Program

Sources of Revenue	Amount of Revenue	Proportion of Individual Source
Tipping Fee	\$142,000	40%
State Grants	\$5,000	2%
General Fund	\$120,000	34%
User Fees	\$85,000	24%
Total	\$352,000	100%

G. LOCATION OF EXISTING AND PLANNED COLLECTION SYSTEM

The approximate location of the existing and new elements of the regional collection and transportation system in Cocke County is shown on the map on the following page. Arrows are used to indicate probable waste flow patterns within/or between the region and adjoining regions.

CHAPTER VI

RECYCLING

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. 68-211-815(b)(7)]

and "Effective January 1, 1996, each county shall provide...one (1) or more sites for collection of recyclable materials..." [T.C.A. 68-211-863(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. 68-211-863(b)]

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

Identified regional needs to provide recycling programs, facilities, and services to the residents of Cocke County are:

- 1) provide one or more sites to collect recyclables,
- 2) integrate recycling program with collection system,
- 3) collect information on quantities and types of collected materials; and,
- 4) cost-effectiveness.

The City of Newport provides curbside recycling to city residents and transports collected recyclables for processing and marketing to its material processing center, the Newport Recycling Center. In 1991, the City diverted .14% of the total county wastestream from the landfill. This low percentage was primarily due to the fact that the City was only operating a pilot program of approximately 1/3 of the total households. Also, the City was having difficulty securing markets for the recyclables. Presently, the City offers curbside collection to all households. The City is successfully marketing the majority of its recyclables through Tidi-Waste in Morristown.

The County plans to expand its existing drop-off collection program for recyclable materials within the existing convenience center system. Compartmentalized containers will be located at all eleven (11) convenience center sites. Materials collected will include: newspaper, plastic and glass containers, and aluminum cans. Recyclables will be collected from the convenience center sites by the sanitation workers and transported to the Newport Recycling Center for processing.

Commercial and industrial businesses in Cocke County also divert recyclable materials from the waste stream. In 1991, major businesses in the County diverted nearly 2.3% of the total waste stream.

With combined public and private recycling efforts, the regional goal of diverting 3-8% of the total waste stream through recycling can be successfully obtained.

B. EXPANSION AND ENHANCEMENT OF RECYCLING IN THE REGION

Drop-off recycling collection sites will be integrated into the County convenience center system. Planned expansion of the Newport Recycling Center is underway with a recent grant award for a baler from the Tennessee Department of Environment and Conservation, Division of Solid Waste Assistance. The City of Newport and the County plan a joint educational program to enhance recycling in the Region by distributing solid waste and recycling information to students in the County and City schools, as well as to inform the adult population about recycling and source reduction. The recently certified Keep America Beautiful program should help to formulate and implement the plan.

A summary of the planned recycling programs to be initiated in the Region is provided in Table VI-1 below:

**Table VI-1
Planned Recycling Programs in Region of Cocke County**

Sector	Program Type	Entities Served	% of Waste Stream	Service Area
County	Drop-off	18,351 residents	2	County
City	Curbside	10,815 residents	1	Newport
Commercial/ Industrial	In-house Waste Reduction	Approximately 6 businesses	5	City & County
Total			8	

Each County convenience center will have one roll-off compartmentalized container for newspaper, plastic containers and aluminum cans. 55-gallon drums will be utilized for colored glass containers: green, white and brown. The roll-off containers and 55-gallon drums will be loaded onto a mini-hoist roll-off recycling trailer, and transported by a 1 1/2 ton truck to the Newport Recycling Center for processing and marketing. One empty compartmentalized container will always stay with the trailer to be exchanged for a full container located at each convenience center site. A map of the planned drop-off collection sites is provided on the system map in Chapter XI.

The Newport Recycling Center, located at 803 Prospect Avenue in Newport, Tennessee, is owned and operated by the City of Newport. The Center operates as a drop-off and material processing facility for recyclable materials collected in Cocke County. The

Center services the City, County and area businesses. The Center collects, processes and markets cardboard, newspaper, glass, plastic containers and aluminum cans. The location of the Center is also provided on the system map in Chapter XI.

The Center presently transports and markets recyclables processed to Tidi-Waste in Morristown in order to economically participate in the recycling market. The Center annually reports the quantities and types of recyclable materials collected. This information will be reported to the Region. The Region will then make this information available to the State Planning Office, as well as, to the Office of Cooperative Marketing for Recyclables.

The Region will participate in any other cost-effective marketing contracts sought by either the State's Office of Cooperative Marketing or the Recycling Marketing Cooperative of East Tennessee (RM CET).

The Region will participate in creating and expanding markets for recovered materials or products with a recycled content in a cost-effective manner through local government purchasing and procurement or by providing economic incentives for new businesses who manufacture new products from recovered materials. As local businesses increase their waste reduction efforts in Cocke County, the Region will initiate a waste exchange program for recovered materials from the commercial and industrial sector.

In order to educate children and adults about source reduction and recycling and to encourage broad participation in a regional recycling program, the City and County are acquiring a certified Keep America Beautiful program for the Region. In past years, the City and County joined efforts and created the Cocke County/Newport Environmental Action Team (CC/NEAT) to address the solid waste problems in Newport and Cocke County. An educational program was developed for local schools to teach children about solid waste issues and solutions. From this effort came the incentive to continue a joint effort between the City and County concerning solid waste education in the Region.

C. TOTAL 10-YEAR STAFFING AND TRAINING NEEDS

The total 10-year staffing for the regional recycling program in Cocke County should include:

<u>Program</u>	<u>Number of Staff</u>
Drop-off Locations	11 personnel (38 hrs/week)*
Transportation	1 part-time
Data Collection & Plan Updates	1 full-time**

* Same staff utilized at convenience center sites.

** Data collection for plan updates and annual reports should be executed by the solid waste coordinator.

D. 10-Year Budget

A ten year budget, including both capital and annual operating costs, has been prepared on the next page to summarize the total costs of the regional recycling program. The proposed budget assumes public sector capital and operational costs. All system costs should be evaluated against solicited bids from the private sector to achieve the most cost effective approach for service delivery.

Annual Capital and Operating Costs for Recycling Program in Region of Cocke County

Recycling Program:	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs:										
Equipment:		\$22,385	\$4,477	\$4,477	\$4,477	\$4,477	\$4,477	\$4,477	\$4,477	
Sinking Fund:			\$7,675	\$7,675	\$7,675	\$7,675	\$7,675	\$7,675	\$7,675	\$7,675
Total Capital Costs:		\$22,385	\$12,152	\$12,152	\$12,152	\$12,152	\$12,152	\$12,152	\$12,152	\$7,675
Operation Costs:										
Personnel:		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Transportation:		\$7,093	\$7,093	\$7,093	\$7,093	\$7,093	\$7,093	\$7,093	\$7,093	\$7,093
Publicity:		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Sub-Total:		\$8,093	\$8,093	\$8,093	\$8,093	\$8,093	\$8,093	\$8,093	\$8,093	\$8,093
3.4% CLI			\$275	\$550	\$825	\$1,101	\$1,376	\$1,651	\$1,926	\$2,201
Total Operational Costs:		\$8,093	\$8,368	\$8,643	\$8,918	\$9,194	\$9,469	\$9,744	\$10,019	\$10,294
Total Capital & Operational Costs:		\$30,478	\$20,520	\$20,795	\$21,070	\$21,346	\$21,621	\$21,896	\$22,171	\$22,446

Budget Information

- Equipment: Four compartment container = \$4477 each
Will use truck already in service.
- Sinking Fund: Assuming containers need to be replaced every seven years.
- Personnel: Will use existing personnel at the convenience centers.
- Transportation: Based on 20 miles per week per site x .52 for truck and .10 for trailer.

E. Implementation Schedule

Table VI-3

Ten Year Implementation Schedule for Recycling Program

Recycling:	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Encourage Industrial/ Commercial	X										County / CIS	N/A	N/A
Integrate Recycling with Convenience Centers		X		X	X	X	X	X	X		County	\$4,477	General Fund/ Tipping Fees
Integrate Recycling with Door-to-Door Collection	X	X									Cities	\$20,000	Solid Waste Fee
Educate the Public	X										Education Coordinator	\$15,000	State Grants/ Private Donations
Purchase Recycling Equipment		X									County / Cities	\$20,000	State Grants
Join R.M.C.E.T.		X									County	\$10,000	Sale of Recyclable
Communicate with Office of Cooperative Marketing		X									Solid Waste Board	N/A	N/A
Plan Updates	X					X					Solid Waste Board	N/N	N/A
Annual Reports and Data Collection	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

Annual milestones will be reported on the progress of the recycling program. From information gathered in Table IV-2 annually, and on the form provided by the Division of Solid Waste Assistance entitled, Quarterly Inventory of Recycling Operations, progress of the recycling program can be adequately measured. As per T.C.A. Section 68-211-863(b), the Region will submit information gathered from these documents annually to the State Planning Office.

Annual milestones will be reported on the progress of the recycling program. From information gathered in Table IV-2 annually and on the form provided by the Division of Solid Waste Assistance entitled, Quarterly Inventory of Recycling Operations, the progress of the recycling program can be adequately measured. As per T.C.A. Section 68-211-863(b), the Region will submit information gathered from these documents annually to the State Planning Office.

F. FUNDING PLAN

The Region's financing plan for capital, operating and maintenance costs will include a combination of revenue sources, such as appropriations from the general fund, grant monies, a portion of the tipping fee and potential sales from the recyclable materials marketed. Detailed information describing how the Region will meet the projected costs and sources of revenues utilized will be discussed in Chapter XI, Section D.

Table VI-4

Annual Funding Plan for Recycling Program

Sources of Revenue	Amount of Revenue	Proportion of Individual Source
Solid Waste Fee	\$10,000	50%
General Fund	\$5,000	25%
State Grants	\$5,000	25%
Total	\$20,000	100%

G. LOCATION OF EXISTING AND PLANNED REGIONAL RECYCLING INFRASTRUCTURE

The approximate location of the existing and new elements of the regional recycling program is provided on the composite map in Chapter XI.

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. 68-211-815(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 was no composting, solid waste processing or incineration facilities available in the Region of Cocke 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 County (including the City of Newport) manage yard waste generated on their property without need for municipal disposal.

In addition, the County and City of Newport have purchased an air curtain destructor to reduce wood waste disposed at the County's Class 1 Landfill. Details on the waste reduction program can be found in Chapter IV.

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 Needs and Goals

The Cocke County landfill is nearing mandated closing in October, 1996. There are plans to have some adjacent land permitted with the State to continue Class I landfill operations within Cocke County. The following tables illustrate the disposal capacity for the region of Cocke County within the next 10-year planning period.

Table VIII-1

Projected Demand and Supply, and Identification of Potential Shortfalls or Surplus in Disposal Capacity (tons per year)

Year	Demand: Tons of Waste Requiring Disposal	Supply: Existing & Planned Capacity	Surplus (+)	Shortfall (-)
1993	N/A			
1994	25,941	26,544	603	
1995	24,348	13,273		10,472*
1996	24,349	243,490	219,141	
1997	24,349	219,141	194,792	
1998	24,382	194,792	170,443	
1999	24,392	170,443	146,051	
2000	24,408	146,051	121,643	
2001	24,371	121,643	97,272	
2002	24,329	97,272	72,943	
2003	24,288	72,943	48,655	

Table VIII-2

**Projected Net Disposal Capacity for Region
(Tons per Year)**

Year	Cocke County	Regional Total
1993	N/A	N/A
1994	25,941	25,941
1995	24,348	24,348
1996	24,349	24,349
1997	24,349	24,349
1998	24,382	24,382
1999	24,392	24,392
2000	24,408	24,408
2001	24,371	24,371
2002	24,329	24,329
2003	24,288	24,288

The Passage of the Resource and Recovery Act Subtitle D Final Rule for Municipal Solid Waste Landfills on October 9, 1991, has made the expenses of operating a Class I landfill increase dramatically. For that reason more counties will look at the disposal of solid waste on a shorter time period so that they don't make long term investments that turn out to be unwise due to new regulations. The following budget outlines the expense of closing a Class I landfill and the cost of a new Class I and Class IV landfill.

B. Disposal Strategy

The Cocke County Regional Solid Waste Board has decided that since there is currently no neighboring counties that would like to have Cocke County's waste and since they generate over 100 tons of waste per day that it would be wise to invest in a new Class I landfill along with a Class IV landfill. Talks have already begun with the State to permit some adjacent land to the current landfill, for the new Class I and Class IV landfill facilities. It is estimated that nearly 10 years could be achieved at this site and that figure should increase as the waste reduction program becomes more effective in the future. The County Commission just recently approved the allocation of funds to do a feasibility study on the construction of a new landfill facility. These findings will ultimately decide the future for the disposal of Cocke County's waste.

Capital and operation costs for Cocke County Class I & IV Landfill

Class I & IV Landfill:	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs:										
Closure Costs:	\$44,397	\$44,397	\$44,397	\$28,586	\$30,015	\$31,516	\$42,434	\$44,558	\$46,784	\$49,123
Post Closure Care:				\$36,755	\$37,163	\$37,591	\$38,041	\$38,513	\$39,009	\$39,529
Equipment/fuel/oil:	\$32,000	\$33,024	\$25,561	\$180,384	\$182,188	\$193,900	\$195,822	\$197,805	\$199,852	\$201,964
Govt. Agency Contracts:	\$36,000	\$36,000	\$36,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Materials:	\$23,400	\$24,149	\$18,692	\$95,952	\$99,022	\$102,191	\$105,461	\$108,836	\$112,319	\$115,913
Other Contracted Services:	\$15,000	\$15,480	\$11,981	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Capital Cost:	\$150,797	\$153,050	\$136,631	\$341,677	\$348,388	\$365,198	\$381,758	\$389,712	\$397,964	\$406,529
Operating Costs:										
Personnel:	\$177,939	\$183,633	\$142,132	\$186,130	\$192,090	\$198,240	\$204,580	\$211,130	\$217,890	\$224,860
Overhead/Admin./Miscellaneous	\$37,222	\$38,413	\$38,413	\$96,130	\$99,200	\$102,370	\$105,650	\$109,030	\$112,520	\$116,120
Testing:	\$10,000	\$10,000	\$10,000	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000
Engineering:	\$13,000	\$13,416	\$13,845	\$17,585	\$18,148	\$18,729	\$19,946	\$20,584	\$21,243	\$21,923
Total Operating Costs:	\$238,161	\$245,462	\$204,390	\$341,845	\$351,438	\$362,339	\$372,086	\$382,744	\$393,653	\$404,903
Total Capital & Operating Costs:	\$388,958	\$398,512	\$341,021	\$683,522	\$699,826	\$727,537	\$753,844	\$772,456	\$791,617	\$811,432

FUND 207 SOLID WASTE DISPOSAL

COCKE COUNTY, TENNESSEE

STATEMENT OF PROPOSED OPERATIONS
FOR THE FISCAL YEAR ENDING JUNE 30, 1994

ACCOUNT NUMBER DESCRIPTION	ACCRUAL BASIS ESTIMATED OPERATIONS 1993 - 1994	CASH BASIS ESTIMATED CASH FLOWS 1993 - 1994
BEGINNING CASH BALANCE 7-1-93		\$ _____
(If the total of the cash column is used to set tipping fees, then enter a zero for beginning cash balance. Assuming the cash in the cash account on July 1, 1993 was donated by another fund, then that cash should not be included when determining a tipping fee.)		

BEGINNING RETAINED EARNINGS 7-1-93 \$ _____ 0

ESTIMATED OPERATING REVENUES
(Revenues directly related to the fund's primary activities. They consist primarily of user charges for goods & services.)

REVENUES RECEIPTS

CHARGES FOR CURRENT SERVICES

GENERAL SERVICE CHARGES

43103	Sale of Methane Gas	_____	_____
43104	Sale of Electricity	_____	_____
43105	Sale of Steam	_____	_____
43110	Tipping Fees	\$ 315,000.00	_____
43111	Surcharge - State	_____	_____
43113	Surcharge - General	_____	_____
49200	Note Proceeds	30,000.00	_____
<u>RECURRING ITEMS</u>			
44145	Sale of Recycled Materials	_____	_____
	TOTAL OPERATING REVENUES	_____	_____

ESTIMATED OPERATING EXPENSES

EXPENSES DISBURSEMENTS

(Expenses related directly to the fund's primary activities.)

SANITATION SERVICES

WASTE DISPOSAL

55754	LANDFILL OPERATION & MAINTENANCE	(20,730.00	(_____
105	Supervisor / Director	(_____	(_____
119	Accountants / Bookkeepers	(18,510.00	(_____
141	Foremen	(_____	(_____
142	Mechanic	(_____	(_____
143	Equipment Operators	(_____	(_____
144	Equipment Operators - Heavy	(_____	(_____
145	Equipment Operators - Light	(_____	(_____
147	Truck Drivers	(_____	(_____
149	Laborers	(72,210.00	(_____
161	Secretary	(_____	(_____
162	Clerical Personnel	(14,579.00	(_____
164	Attendants	(_____	(_____
187	Overtime Pay	(7,500.00	(_____
188	Temporary / Part-Time Personnel	(_____	(_____
189	Other Salaries & Wages	(_____	(_____
201	Social Security	(10,700.00	(_____
202	Handling & Administrative Costs	(_____	(_____
204	State Retirement	(7,100.00	(_____
205	Employee & Dependent Insurance	(25,010.00	(_____
206	Life Insurance	(_____	(_____

FUND 207 SOLID WASTE DISPOSAL

COCKE COUNTY, TENNESSEE

STATEMENT OF PROPOSED OPERATIONS
FOR THE FISCAL YEAR ENDING JUNE 30, 1994

ACCOUNT NUMBER	DESCRIPTION	ACCRUAL BASIS ESTIMATED OPERATIONS 1993 - 1994	CASH BASIS ESTIMATED CASH FLOWS 1993 - 1994
509	Refunds	()	()
510	Trustee's Commission	(3,500.00)	()
511	Vehicle & Equipment Insurance	(5,102.00)	()
512	Withholding Tax	()	()
513	Workmen's Compensation Insurance	(15,600.00)	()
* 514	Depreciation (This expense does not decrease cash)	()	()
515	Liability Claims	()	()
517	Surcharge	()	()
599	Other Charges	()	()

(The following expenditures for equipment, buildings, etc. that do not meet the long-term asset policy to be classified as a long-term asset. These will be fully expensed in the year they are purchased.)

701	Administration Equipment	()	()
707	Building Improvements	()	()
708	Communication Equipment	()	()
709	Data Processing Equipment	()	()
711	Furniture & Fixtures	()	()
712	Heating & Air Conditioning Equipment	()	()
717	Maintenance Equipment	()	()
719	Office Equipment	()	()
724	Site Development	()	()
727	Surplus Equipment	()	()
733	Solid Waste Equipment	()	()
790	Other Equipment	()	()
791	Other Construction	()	()
799	Other Capital Outlay	(30,000.00)	()
55770	POSTCLOSURE CARE COSTS	()	()
463	Testing	()	()
	(Add any other expenses from the list above)	()	()
	TOTAL OPERATING EXPENSES	(344,561.00)	()

OPERATING INCOME (LOSS) 439.00

(An operating loss means that landfill operation must be subsidized by transfers, selling capital assets, or borrowing.)

FUND 207 SOLID WASTE DISPOSAL

COCKE COUNTY, TENNESSEE

STATEMENT OF PROPOSED OPERATIONS FOR THE FISCAL YEAR ENDING JUNE 30, 1994

ACCOUNT NUMBER	DESCRIPTION	ACCRUAL BASIS ESTIMATED OPERATIONS 1993 - 1994	CASH BASIS ESTIMATED CASH FLOWS 1993 - 1994
411	Data Processing Supplies	()	()
412	Diesel Fuel	()	()
414	Duplicating Supplies	()	()
415	Electricity	()	()
416	Equipment Parts - Heavy	()	()
417	Equipment Parts - Light	()	()
418	Equipment & Machinery Parts	23,000.00	()
420	Fertilizer, Lime, & Seed	()	()
423	Fuel Oil	()	()
424	Garage Supplies	6,000.00	()
425	Gasoline	()	()
426	General Construction Materials	()	()
427	Ice	2,000.00	()
433	Lubricants	()	()
434	Natural Gas	600.00	()
435	Office Supplies	()	()
437	Periodicals	()	()
438	Pipe	()	()
439	Pipe - Concrete	()	()
440	Pipe - Metal	()	()
442	Propane Gas	()	()
443	Road Signs	()	()
445	Sand	()	()
446	Small Tools	3,400.00	()
450	Tires & Tubes	600.00	()
451	Uniforms	1,250.00	()
452	Utilities	()	()
453	Vehicle Parts	()	()
454	Water & Sewer	()	()
455	Wood Products	()	()
456	Gravel & Chert	()	()
457	In-Service / Staff Development	()	()
458	Daily Cover Material	()	()
459	Drainage Materials	()	()
460	Geotextile Materials	()	()
461	Liner Materials	()	()
462	Wire	()	()
463	Testing	()	()
464	Top Soil	()	()
465	Clay	()	()
466	Synthetic Membrane	()	()
467	Fencing	()	()
468	Chemicals	1,500.00	()
499	Other Supplies & Materials	900.00	()
502	Building & Contents Insurance	()	()
503	Excess Risk Insurance	()	()
505	Judgements	3,600.00	()
506	Liability Insurance	()	()
507	Medical Claims	()	()
508	Premiums on Corporate Surety Bonds	()	()

FUND 207 SOLID WASTE DISPOSAL

COCKE COUNTY, TENNESSEE

STATEMENT OF PROPOSED OPERATIONS FOR THE FISCAL YEAR ENDING JUNE 30, 1994

ACCOUNT NUMBER	DESCRIPTION	ACCRUAL BASIS ESTIMATED OPERATIONS 1993 - 1994	CASH BASIS ESTIMATED CASH FLOWS 1993 - 1994
207	Medical Insurance	()	()
208	Dental Insurance	()	()
209	Disability Insurance	()	()
210	Unemployment Compensation	(1,600.00)	()
211	Local Retirement	()	()
212	Employer Medicare	()	()
299	Other Fringe Benefits	()	()
301	Accounting Services	()	()
302	Advertising	()	()
306	Bank Charges	()	()
307	Communication	(2,520.00)	()
308	Consultants	()	()
309	Contracts with Government Agencies	(36,000.00)	()
310	Contracts with Other Public Agencies	()	()
312	Contracts with Private Agencies	()	()
317	Data Processing Services	()	()
318	Debt Collection Services	()	()
320	Dues & Memberships	()	()
321	Engineering Services	(13,000.00)	()
322	Evaluation & Testing	()	()
325	Fiscal Agent Charges	()	()
327	Freight Expenses	()	()
328	Janitorial Services	()	()
329	Laundry Services	()	()
330	Operating Lease Payments	()	()
331	Legal Services	()	()
333	Licenses	()	()
334	Maintenance Agreements	()	()
335	Maintenance & Repair Services - Buildings	()	()
336	Maintenance & Repair Services - Equipment	()	()
337	Maintenance & Repair Service - Office Equipment	()	()
338	Maintenance & Repair Services - Vehicles	()	()
348	Postal Charges	()	()
349	Printing, Stationery & Forms	(1,000.00)	()
351	Rentals	()	()
353	Tow-In Services	(500.00)	()
355	Travel	()	()
359	Disposal Fees	()	()
360	Brokerage Fees - Recyclables	()	()
361	Permits	()	()
362	Penalties	()	()
363	Contracts for Landfill Facilities	()	()
364	Contracts for Development Costs	()	()
365	Contracts for Final Cover Costs	()	()
366	Contracts for Postclosure Care Costs	(15,000.00)	()
399	Other Contracted Services	()	()
402	Asphalt	()	()
408	Concrete	()	()
409	Crushed Stone	()	()
410	Custodial Supplies	(1,550.00)	()

C. Funding and Implementation Schedule

Table VIII - 3

10 Year Implementation Schedule for the Disposal Program

Disposal	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Apply for Permit to Upgrade Existing Landfill	X										County	\$150,000	General Fund
Construct New Class I Landfill Cell			X								County	\$300,000	Tipping Fees
Construct New Class IV Landfill Cell			X								County	\$100,000	Tipping Fees
Closure of Old Class I landfill Site			X								County	\$44,000	Tipping Fees
Consider Transferring Ownership to a Solid Waste Authority				X							County	N/A	N/A
Training Personnel	X										State	N/A	N/A
Plan Update	X					X					Solid Waste Board	N/A	N/A
Annual Report	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

Table VIII-4

Annual Funding Plan for Disposal Program

Sources of Revenue	Amount of Revenue	Proportion of Individual Source
General Fund	\$150,000	23%
Tipping Fees	\$500,000	77%
Total	650,000	100%

D. Location of Existing and Planned Infrastructure

The locations of the Class I and Class IV landfills are shown on the composite map located in Chapter XI of the Region Plan.

PUBLIC INFORMATION AND EDUCATION

Statutory Requirements:

"...[Each 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. Cocke County, in a joint program with the City of Newport known as CC/NEAT, offers public information and educational programs. The program provides standard audio/visual presentations to the public, as well as within the school systems. Both Cocke County and Newport City Schools offer a recycling education curriculum. Leadership E-4 is another county/community-wide group that offers educational programs. It is associated with Newport-Cocke County Chamber of Commerce. The local industry Quaker Oats encourages public input into their recycling operations and presents a local recycling program through local newspapers. The Newport Plain Talk and WNPC-AM Radio, both present news stories relating to solid waste issues.

With the November 12, 1993, Keep America Beautiful certification, a growing part of the community will be covered by educational programs. As part of this new commitment, a series of broad based goals and objectives have been established. In order to meet the goal of proper solid waste management, the public must develop a heightened awareness of, and sense of responsibility for, conserving the environment. Through education the public can learn to solve many of the problems associated with solid waste. The objective of creating a more enlightened public can be reached by expanding upon the following basic tenets:

The newly certified KAB program should help to meet the goals and objectives of Cocke County.

1. Reduce solid waste by altering purchasing and consumption habits. Buy products which create the least amount of solid waste.
2. Reuse products whenever possible before discarding them.
3. Recycle solid waste items which can be made into new products. Recover organic matter to soil composition.
4. Review our disposal practices to insure that unusable solid waste is not polluting the environment and make sure that it is placed in a safe sanitary landfill.
5. Evaluate our present lifestyles to determine how they can be changed to become more kind to the environment.

There are five major target groups for educational purposes. Through these five groups the issues of proper solid waste management can be spread to a large section of the community. These five groups are:

1. School children (pre-school, elementary *the main focus*, and secondary)
2. Government officials (i.e. County Commission, planning officials, city councils)
3. Civic groups (i.e. Kiwanis, AmVets, church groups, garden clubs)
4. Business and industry (i.e. industrial associations, Chamber of Commerce)
5. At-large community (i.e. community centers, parks, shopping centers)

The Keep America Beautiful program will best be able to reach the aforementioned groups in the most efficient and effective way. The focus of the KAB program will be on finding alternatives to disposing of waste in Class I landfills and eliminating environmentally hazardous practices. This includes reducing waste at the source, recycling (residential, industrial, institutional and commercial), learning the impact of litter and illustrating the harm caused by illegal burying and dumping.

Within the school system a series of different grades should be targeted for instruction. By choosing Fourth, Seventh, and Tenth Grades similar materials can be used for up to three years without becoming repetitive. By using established environmental curriculum (i.e. V.E. Vivian's Solid Waste/Energy Curriculum and offerings through the Tennessee Department of Education's Project SWEEP), and locally-oriented presentations, most students needs can be met. Most curriculums can be ordered through ERIC or Keep America Beautiful at a fairly minimal cost. To complement the curriculum a locally oriented slide show (possibly on video) with accompanying text will be provided to the schools for the cost of duplication.

A series of workshops and conferences will be provided for merchants, industrialists, public official, and the public at large. Some of these seminars will use a variation of the locally oriented slide show/video used in the schools. Other programs will include information on waste reduction, recycling, and local services. Additional audio-visual presentations should include TVA's video "Rural America: The Solid Waste Issue Hits Home." Literature focusing on regional services (i.e. RMCET) and national solutions to solid waste management problems will be provided at the seminars. To assure a broad approach at the seminars, local input should be complemented with exhibits and demonstrations from outside the region. Also, a list of possible speakers should be developed, including individuals from the region, state, and even the national level. The local media will need to be constantly updated on events through a series of monthly or bi-monthly news releases.

In cooperation with the education programs at both the local school level and for the adult community, a series of award programs will have been instituted. On April 8th, the annual Cocke County Clean Challenge Kickoff began with awards to be issued on April 21st, Earth Day. These awards honor local individuals, groups, and businesses for progress they have made in improving the region through better waste management practices.

To reiterate, the Keep America Beautiful program can best fulfill these educational plans. The Cocke County's KAB program has one staff person who is responsible for the plans implementation of the plan. For the initial few years, this individual would work primarily on the school education requirements and on establishing some basic adult oriented workshops. The staff person would also be responsible for quarterly evaluation reports to the Cocke County Solid Waste Regional Planning Board.

A 10-year implementation schedule, with specific milestones for measuring progress toward implementation of the education element of the plan is shown on the following page:

Table IX-2

Ten Year Implementation Schedule for Education Program

Education	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Enforce Illegal Dumping	X										County Court	N/A	N/A
Establish KAB Franchise	X										Solid Waste Board	\$2,000	General Funds
Hire Education Coordinator	X										County	\$15,000	General Fund
Educate the Target Groups		X									Education Coordinator	\$1,500	State Grants / Private Donations
Plan Updates	X						X				Solid Waste Board	N/A	N/A
Annual Reports	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

Table IX-3

Annual Funding Plan for Educational Program

Source of Revenue	Amount of Revenue	Proportion of Individual Source
State Grants	\$1500	7%
General Fund	\$10,500	53%
Private Donations	\$8000	40%
Total	\$20,000	100%

A ten year budget, including both capital and annual operating costs, has been prepared to summarize the total costs of the regional education program. Monies to cover these educational services should consist of a combination of in-kind services and donations, memberships, increased revenue from recycling, state grants, and revenue from city and county general funds. The 10-year budget can be seen on the following page.

**Table IX-1
Annual Capital and Operating Costs for Education Program in Cocke County**

EDUCATION PROGRAM	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<i>Capital Costs:</i>										
Audio/Visual Equipment:	\$600			\$1,500					\$1,000	
KAB Franchise Fee :	\$600	\$2,000		\$1,500					\$1,000	
Total Capital Costs :		\$2,000		\$1,500					\$1,000	
<i>Operational Costs:</i>										
Wages, Fringes, etc.:	\$9,360	\$15,600	\$15,600	\$15,600	\$15,600	\$15,600	\$15,600	\$15,600	\$15,600	\$15,600
General Office:	\$800	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Promotions:	\$650	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
KAB, Inc. Annual Fee:			\$250	\$250	\$250	\$250	\$250	\$250	\$250	\$250
Sub-Total:	\$10,810	\$17,600	\$17,850	\$17,850	\$17,850	\$17,850	\$17,850	\$17,850	\$17,850	\$17,850
3.4% CLI:		\$598	\$1214	\$1821	\$2428	\$3035	\$3642	\$4248	\$4855	\$5462
Total Operation Costs:	\$10,810	\$18,198	\$19,064	\$19,671	\$20,278	\$20,885	\$21,491	\$22,098	\$22,705	\$23,312
Total Capital & Operation Costs	\$11,410	\$20,198	\$19,064	\$21,171	\$20,278	\$20,885	\$21,491	\$22,098	\$23,705	\$23,312

Budget Information

Personnel: After 1994, 40/hrs per week at \$6/hr.

CHAPTER X
PROBLEM WASTES

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. 68-211-815(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. 68-211-829].

"...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. 68-211-866(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. 68-211-866(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. 68-211-815(b)(15)]

The Solid Waste Management Act directly addresses four problem wastes. The Region of Cocke 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 the 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.

Several potential temporary locations have 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 locations in Cocke County could be:

Walmart (Newport)
Cocke County Schools
Newport City Schools
Local Grocery Stores

Since the Walmart, Newport City Schools and local grocery store locations are not County-owned, the County will be responsible for all leasing arrangements. The leasing arrangement will be in writing and submitted to the Special Waste Section Manager (Department of Solid Waste Assistance, TDEC) 15 working days prior to the collection event. 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 nonhazardous household waste at each collection event and provide for the proper disposal of the nonhazardous 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 program, 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, the proposed Keep America Beautiful program for Cocke County will support and promote the HHW through the 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 nonhazardous 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 the nearest medical facilities and the addresses 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

<u>PROGRAM ELEMENTS</u>	<u>PROGRAM COSTS</u>
Site (containers)	Leasing \$150 (service solid waste containers)
Advertisement	\$200 (newspaper article, brochures)
Site Representative	<u>\$ 60</u> (\$6/hr @ 10hrs.)
Total	\$410

Potential site locations: Walmart (Newport)
Cocke County Schools
Newport City Schools
Local Grocery Stores

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

Program to be held twice a year at potential site location(s) = **\$820** (no leasing costs)

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 per, 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 Cocke County are supported by a waste tire storage site located at the Cocke County Landfill. The site can store approximately 30,000 tires. During the fiscal year 1992-1993, 15,205 tires were sold in Cocke County. (This quantity was calculated from the annual amount of the tire pre-disposal fees paid into the Solid Waste Management Fund each year. The annual revenues were obtained from the Department of Revenue, 1993). The existing storage site will be capable of handling the current discard rate. On two separate occasions in 1993, Cocke County shredded 9,000 and 15,000 tires utilizing the State Mobile Tire Shredding Program. Shredded tires were disposed in the County Landfill.

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 Keep America Beautiful program in Cocke County.

Estimates suggest that the annual capital costs of the storage site will be between \$10,000 and \$15,000. A grant application for \$10,000 will be submitted by the County, after the plan is approved, to reimburse expenses for constructing the site location.

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 landfill operator already on site at the County landfill.

C. WASTE OIL

Waste oil and other used automotive fluids are currently managed in the County at local gasoline and automobile service stations who supply waste oil tanks for temporary disposal. The County has also just recently placed used oil containers in all of their convenience centers. No estimate on the quantity of oil recovered in 1993 is available for Cocke County. The waste oil is currently being handled efficiently by the private sector. The County will continue to support the existing efforts through education and information provided to the public on possible locations.

Industrial Waste Oil in Knoxville will supply a 300 gallon tank, or 55-gallon drums, at each site, pump once to twice weekly, and provide receipts for amounts at no charge (tank agreement signed).

Other automobile fluids:

Used oil filters - 55 gallon drums @ \$55 - \$75/drum (up to 100 miles)

Antifreeze- 55 gallon drums @ \$25/drum

Pumped two (2) to four (4) times a year.

In addition, the County will encourage the public to bring waste oil and other automobile fluids to the scheduled HHW collection events to be held in the County at least twice yearly.

D. LEAD ACID BATTERIES

Lead-acid batteries are not currently managed efficiently in the County. The County will provide at least one collection site, to receive and store discarded batteries as required by T.C.A. 68-211-866(b) through the scheduled HHW collection program scheduled at least twice yearly.

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. The County Sheriff's Department administers the litter prevention grant with the daily pick-up of roadside litter, (the approximate amount of roadside litter collected is unknown).

During fiscal year 1993-1994 the County must designate at least 10% of the litter prevention budget to educational efforts. The Sheriff's Department has identified the following educational methods to inform the public about littering and illegal dumping: litter bags will be distributed to school children by the County Sheriff Department and paid advertisements concerning littering behavior will be run in the local newspapers monthly.

In addition, the Keep America Beautiful Program for the County will integrate efforts with the existing County programs to encourage non-littering behavior.

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 Implementation Schedule for Household Hazardous Waste

HHW	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Use State's Mobile Equipment	X										Solid Waste Board	\$1,000	Tipping Fee
Publicize HHW Sites	X										Solid Waste Board	\$1,000	Tipping Fee
Construct Tire Storage Site		X									County	\$10,000	State Grant
Integrate HHW Sites with Convenience Centers		X	X	X	X	X	X	X	X	X	County	\$1,000	State Grant
Contract with Private Hauler For Disposal of HHW		X									County	\$500	Tipping Fee
Plan Update	X						X				Solid Waste Board	N/A	N/A
Annual Reports	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	N/A

G. Funding Plan

Annual Funding Plan for Household Hazardous Waste

Sources of Revenue	Amount of Revenue	Proportion of Individual Source
Tipping Fees	\$15,000	94%
Grants	\$1,000	6%
Total	\$16,000	100%

IMPLEMENTATION: SCHEDULE, STAFFING AND FUNDING

The Solid Waste Board for the Region of Cocke County has developed the following components into an integrated solid waste management system:

1. Disposal
2. Waste Reduction
3. Collection
 - Problem Waste
4. Recycling
5. Education

A. Disposal

The Region of Cocke County currently generates about 36,022 tons of waste per year of which 67% of this waste ends up at the Class I landfill site. The Region of Cocke County currently has a publicly owned Class I landfill that has an estimated closing of June, 1995. The region of Cocke County is currently working with the State to achieve a permitted expansion of the existing Class I landfill site, which would give the region over 10 years of additional Class I landfill space. The Solid Waste Board of Cocke County felt that it could better control the waste being disposed at the Class I landfill site if it remained a single county region.

The current funding of the landfill is made up largely of three sources: city and county general funds and tipping fees. This method of funding should remain constant in the upcoming 10 year planning period with possibly a little more emphasis being placed on tipping fees.

B. Waste Reduction and Recycling

In order for the Region of Cocke County to meet the 25% waste reduction mandate by the State, an integrated waste reduction and recycling system must be in place. The region of Cocke County through the use of an air curtain destructor should achieve 24% of its waste reduction through waste diversion. The Regional Solid Waste Board of Cocke County will look at the feasibility of constructing a Class IV landfill in the near future. This could give the region an additional 4.4% in waste diversion. The City of Newport is currently revamping its existing recycling operations and the County will be phasing in recycling drop off sites at all of their convenience centers in the next 10 years. It is estimated that nearly 8% of the waste can be recycled in the region of Cocke County by the private sector, industrial/commercial sectors, and the institutional sector.

The Solid Waste Board recognizes the need to recycle material and with the help of the recently formed Keep America Beautiful (KAB) franchise it should see some increase in recycling efforts by the public in the future. The region of Cocke County will continue to support the private sector in terms of establishing a working relationship for recyclable materials and publicizing the private sector ability to handle recyclable materials, either through collection or processing.

Finally, the region of Cocke County will continue to work with the industries on ways to reduce waste through source reduction. The Center for Industrial Services will be contacted to help those industries willing to find ways to reduce their waste and possible save the company money.

C. Collection

In the early 90's the region of Cocke County began constructing convenience centers in order to control waste being placed along roadside and mountain bluffs. This has resulted in less than 1% unmanaged waste currently being illegally dumped in the region. The region of Cocke County has ten convenience centers strategically placed throughout the county and is looking at building one more in the near future. The region of Cocke County also has door to door collection provided by the City of Newport and some private haulers. In terms of State requirements for collection, the Region of Cocke County has a more than adequate collection system for its citizens. The Region of Cocke County will, however, need to bring one of their convenience centers up to State standards by January 1, 1996.

Not only do the convenience centers give the public more accessible access for the disposal of their waste, but the convenience centers will also allow the region to integrate other solid waste programs in the future for the public.

Besides the integration of recyclable material drop offs at the convenience centers. The convenience centers will also be used to drop off household hazardous waste (HHW) in the region of Cocke County. The Region of Cocke County still plans to utilize the State's mobile equipment for disposal of HHW; but with the integration of HHW sites at the convenience centers, greater public participation should occur due to the easier access county wide. All HHW material from the convenience centers will be transported to a central location, such as the landfill site for the proper disposal of the material.

D. Education

Education, as in most aspects of life, plays a major role in the success and failure of programs, such as the solid waste program. The ability to educate the people on the proper disposal of solid waste will decide the fate of the solid waste management plan for the Region of Cocke County. The Regional Solid Waste Board, realizing the importance of a solid waste education program, formulated and implemented an education program under the franchise of Keep America Beautiful.

Besides holding some public functions such as the annual Cocke County Clean Challenge that gets the public involved. The education coordinator will be focusing on the school children during the upcoming school year. It is the hope of the education coordinator that with the help of the teachers the school kids can be taught the correct way to handle solid waste and make it an everyday practice. The education coordinator will also target the older generation within the upcoming years.

Managed Waste Stream

System Component	Tons of Total Waste Stream Managed Per Year	% of Total Waste Stream Managed
Disposal	24,105	67%
Waste Diversion	8793	24%
Recycling	2881	8%
Source Reduction	243	1%
Total System Components	36,022	100%

Staffing and Training Requirements for Each Component

Component	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Data Collection	XY										Solid Waste Coordinator	\$25,000	Tipping Fees
Class I Landfill	XY										County	\$180,000	Tipping Fees
Waste Diversion*													
Recycling**											County	\$120,907	General Fund
Collection: Convenience Centers	X		Y										
Collection: Door to Door	XY										Cities & Private Haulers	Varies	Solid Waste Fee
Education:	XY										County	\$15,000	Private Donations

Total Budget for Region of Cocke County

Components:	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Class III Waste:	\$45,540	\$20,324	\$20,883	\$21,411	\$21,939	\$22,468	\$22,996	\$23,525	\$24,053	\$24,581
Class 1 & IV Waste:	\$388,958	\$398,512	\$341,021	\$683,522	\$699,826	\$727,537	\$753,844	\$772,456	\$791,617	\$811,432
Convenience Centers:	\$312,261	\$351,743	\$338,635	\$348,930	\$359,224	\$369,519	\$379,813	\$390,108	\$400,402	\$410,697
Recycling:	\$0	\$30,478	\$20,520	\$20,795	\$21,070	\$21,346	\$21,621	\$21,896	\$22,171	\$22,446
Education:	\$11,410	\$20,198	\$19,064	\$21,171	\$20,278	\$20,885	\$21,491	\$22,098	\$22,705	\$23,312
Total Components:	\$778,447	\$821,255	\$740,123	\$1,095,829	\$1,122,337	\$1,161,755	\$1,199,765	\$1,230,083	\$1,260,948	\$1,292,468

Implementation

Schedule

1. Recycling
2. Collection
3. Disposal
4. Education
5. Household Hazardous Waste

Ten Year Implementation Schedule for Recycling Program

Recycling:	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
											County / CIS	N/A	N/A
Encourage Industrial/ Commercial	X										County	\$4,477	General Fund/ Tipping Fees
Integrate Recycling with Convenience Centers		X		X	X	X	X	X	X		Cities	\$20,000	Solid Waste Fee
Integrate Recycling with Door-to-Door Collection	X	X									Education Coordinator	\$15,000	State Grants/ Private Donations
Educate the Public	X										County / Cities	\$20,000	State Grants
Purchase Recycling Equipment		X									County	\$10,000	Sale of Recyclable
Join R.M.C.E.T.		X									Solid Waste Board	N/A	N/A
Communicate with Office of Cooperative Marketing		X									Solid Waste Board	N/N	N/A
Plan Updates	X					X					Solid Waste Board	N/N	N/A
Annual Reports and Data Collection	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

Ten Year Implementation Schedule for Collection Program

Collection:	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Continue Door to Door Collection	X										Cities & Private Haulers	Varies	Solid Waste Fee
Establish Standards for Private Haulers		X									State	N/A	N/A
Bring Convenience Centers up to State Standards			X	X	X	X	X	X	X	X	County	\$6,000	State Grant
Manned Convenience Centers	X										County	\$120,907	General Fund
Certification of Staff			X								State	N/A	N/A
Plan Update	X						X				Solid Waste Board	N/A	N/A
Annual Reports	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

Ten Year Implementation Schedule for Disposal of Solid Waste

Disposal	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Apply for Permit to Upgrade Existing Landfill	X										County	\$150,000	General Fund
Construct New Class I Landfill Cell			X								County	\$300,000	Tipping Fees
Construct New Class IV Landfill Cell			X								County	\$100,000	Tipping Fees
Closure of Old Class I landfill Site			X								County	\$44,000	Tipping Fees
Consider Transferring Ownership to a Solid Waste Authority				X							County	N/A	N/A
Training Personnel	X										State	N/A	N/A
Plan Update	X						X				Solid Waste Board	N/A	N/A
Annual Report	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

Ten Year Implementation Schedule for Education Program

Education	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Enforce Illegal Dumping	X										County Court	N/A	N/A
Establish KAB Franchise	X										Solid Waste Board	\$2,000	General Funds
Hire Education Coordinator	X										County	\$15,000	General Fund
Educate the Target Groups		X									Education Coordinator	\$1,500	State Grants / Private Donations
Plan Updates	X					X					Solid Waste Board	N/A	N/A
Annual Reports	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

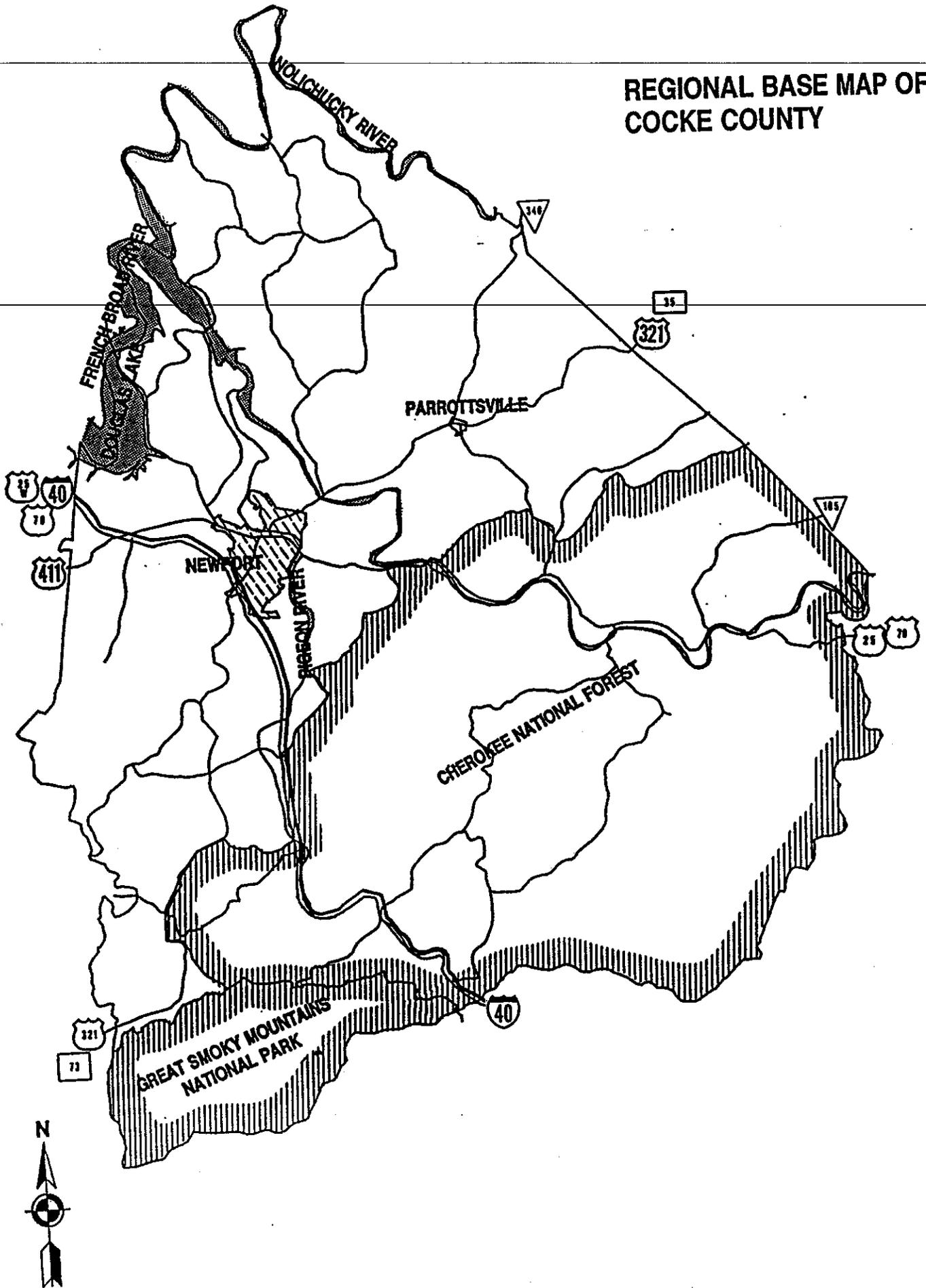
Ten Year Implementation Schedule for Household Hazardous Waste

HHW	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Use State's Mobile Equipment	X										Solid Waste Board	\$1,000	Tipping Fee
Publicize HHW Sites	X										Solid Waste Board	\$1,000	Tipping Fee
Construct Tire Storage Site		X									County	\$10,000	State Grant
Integrate HHW Sites with Convenience Centers		X	X	X	X	X	X	X	X	X	County	\$1,000	State Grant
Contract with Private Hauler For Disposal of HHW		X									County	\$500	Tipping Fee
Plan Update	X					X					Solid Waste Board	N/A	N/A
Annual Reports	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	N/A

Maps

1. Regional Base Map
2. Existing System Map
3. Proposed System Map
4. Education System Map

REGIONAL BASE MAP OF COCKE COUNTY



LEGEND

////// CURBSIDE SOLID WASTE COLLECTION AND RECYCLING COLLECTION

⊕ CONVENIENCE CENTER SITES

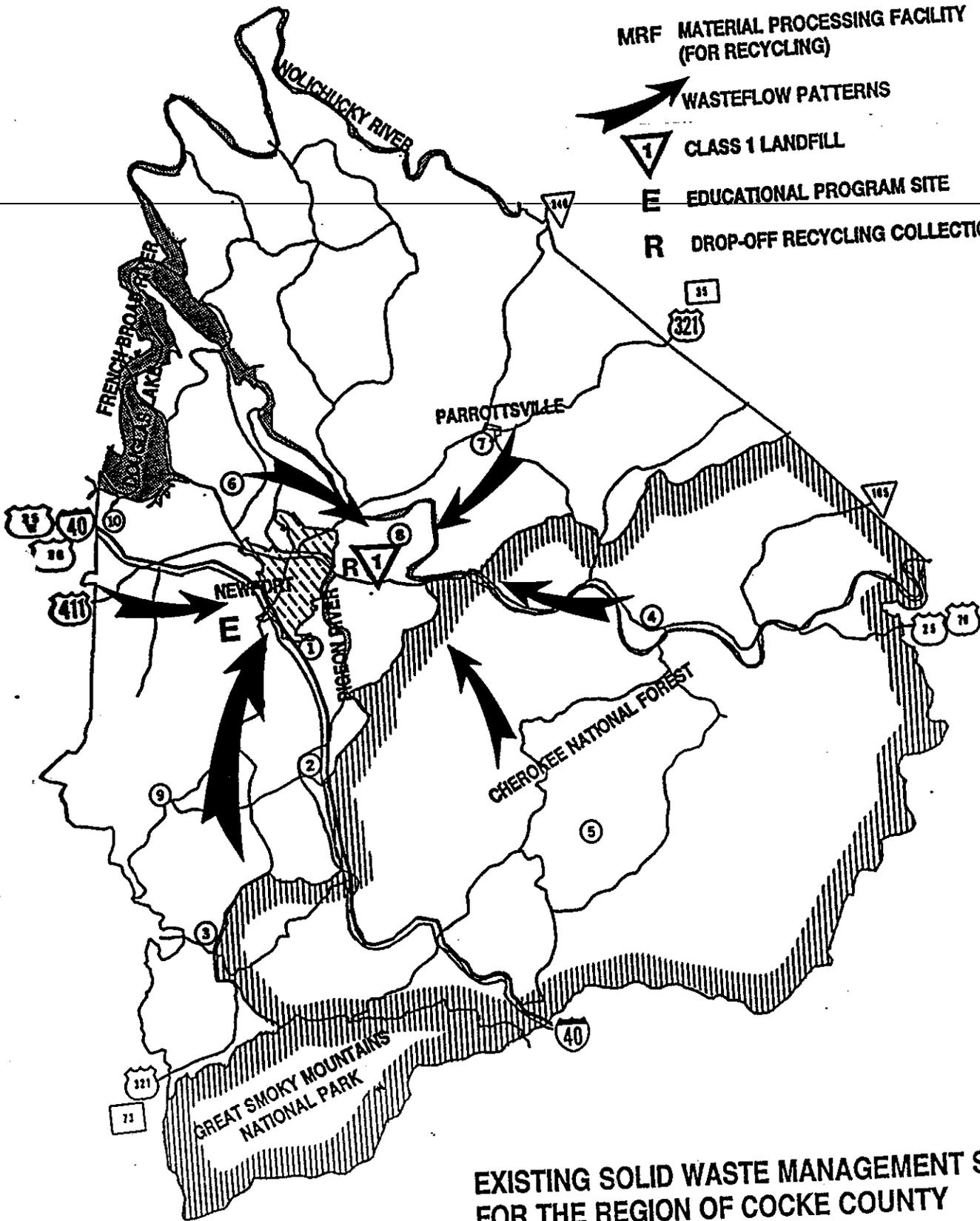
MRF MATERIAL PROCESSING FACILITY (FOR RECYCLING)

➔ WASTEFLOW PATTERNS

▽ CLASS 1 LANDFILL

E EDUCATIONAL PROGRAM SITE

R DROP-OFF RECYCLING COLLECTION SITE



EXISTING SOLID WASTE MANAGEMENT SYSTEM FOR THE REGION OF COCKE COUNTY

LEGEND

////// CURBSIDE SOLID WASTE COLLECTION

⊕ CONVENIENCE CENTER SITES

MRF MATERIAL PROCESSING FACILITY
(FOR RECYCLING)

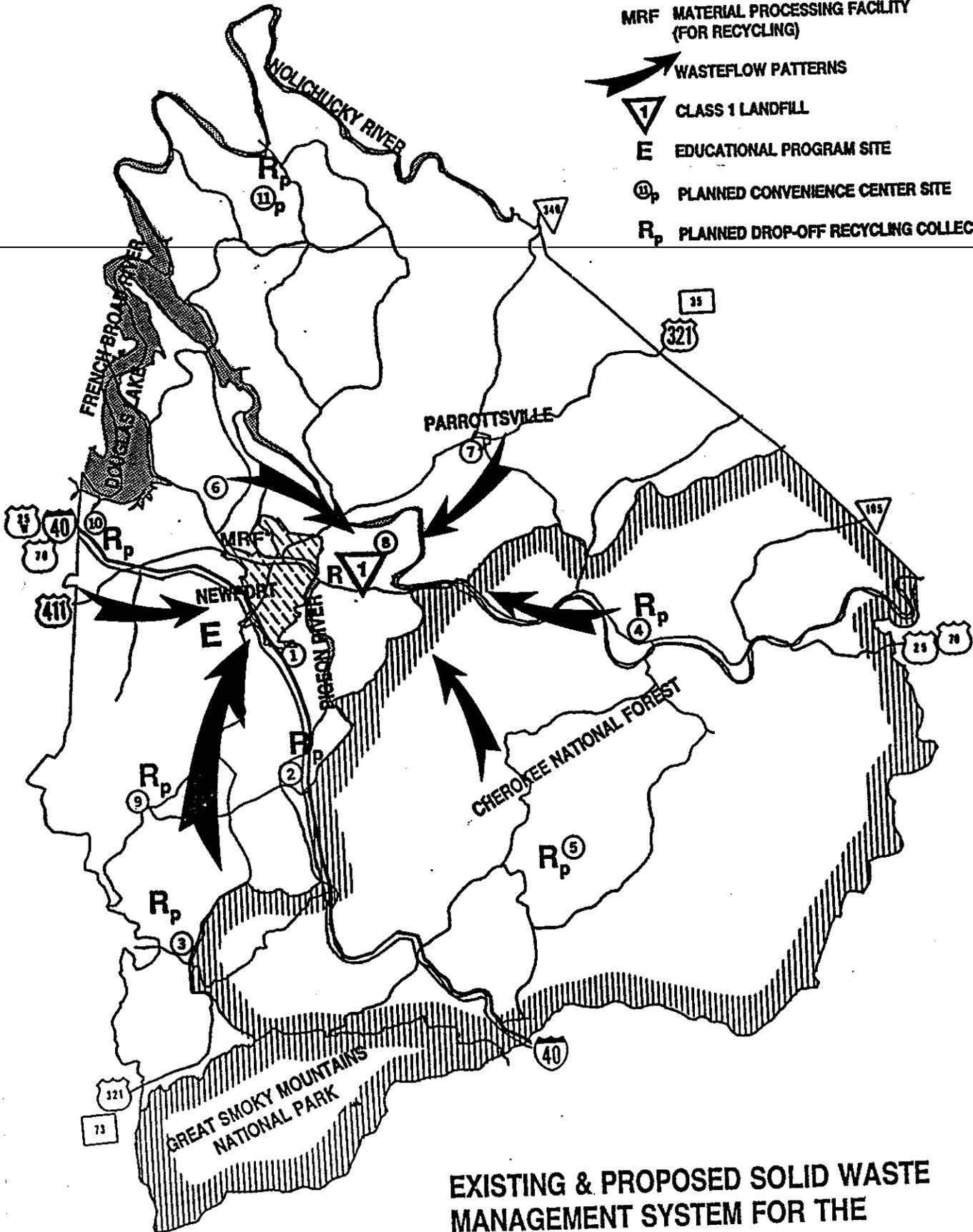
➔ WASTEFLOW PATTERNS

▽ CLASS 1 LANDFILL

E EDUCATIONAL PROGRAM SITE

⊕_p PLANNED CONVENIENCE CENTER SITE

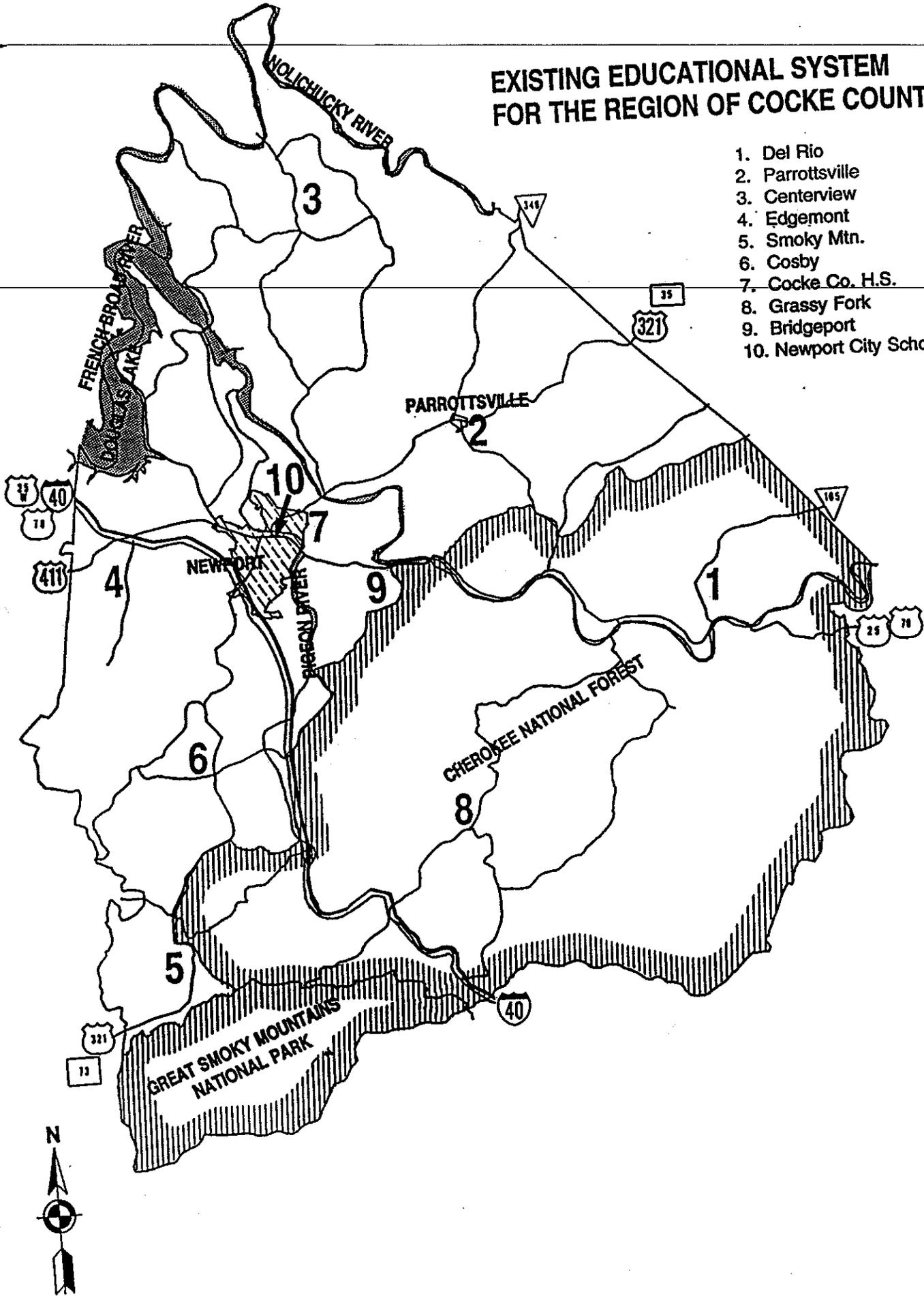
R_p PLANNED DROP-OFF RECYCLING COLLECTION SITES



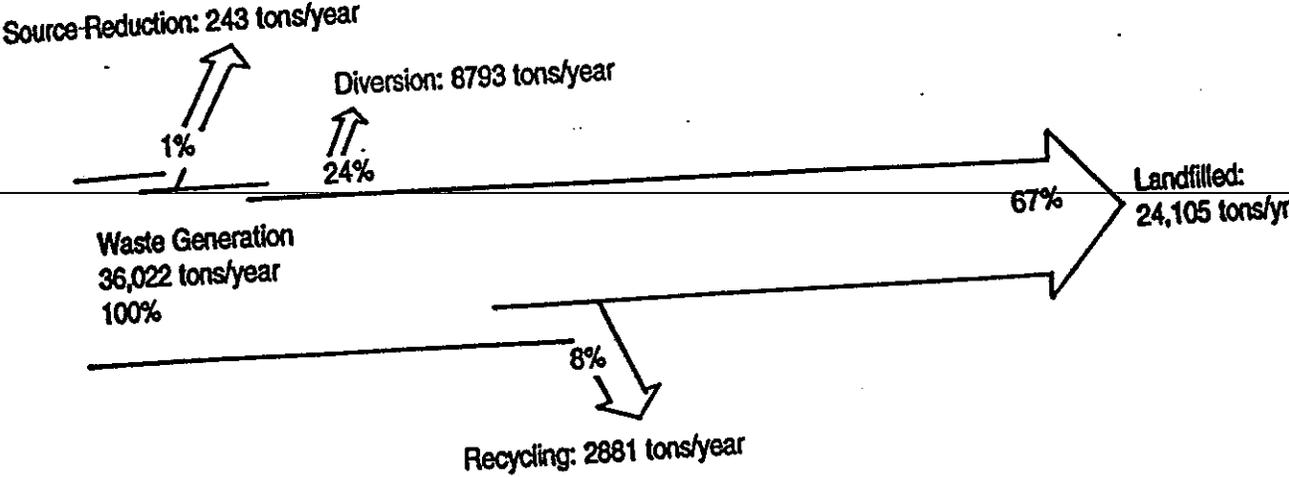
EXISTING & PROPOSED SOLID WASTE
MANAGEMENT SYSTEM FOR THE
REGION OF COCKE COUNTY

EXISTING EDUCATIONAL SYSTEM FOR THE REGION OF COCKE COUNTY

1. Del Rio
2. Parrottsville
3. Centerview
4. Edgemont
5. Smoky Mtn.
6. Cosby
7. Cocke Co. H.S.
8. Grassy Fork
9. Bridgeport
10. Newport City School



Flow Diagram for Coker County Region:



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

A. ONE-COUNTY REGION

1. Adoption of Solid Waste Management Plan by the Solid Waste Regional Board.
2. Adoption of Solid Waste Management Plan by the County Commission.
3. Minutes of the Regional Planning Commissions showing that the Solid Waste Management Plan was presented to them for review and comment.

Regional Board Approval

RESOLUTION

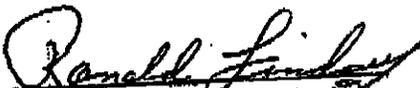
A RESOLUTION ENDORSING THE COCKE COUNTY REGIONAL SOLID WASTE MANAGEMENT PLAN.

Whereas, the Cocke County Regional Solid Waste Board was created to evaluate the existing solid waste system and develop a plan to alleviate the known deficiencies and,

Whereas, the Cocke County Regional Solid Waste Board formulated a ten (10) year solid waste management plan to solve the depicted deficiencies of the current solid waste system and,

Whereas, the Cocke County Regional Solid Waste Management Plan meets all Federal and State guidelines.

Now, Therefore Be IT Ordained, that the Cocke County Regional Solid Waste Board does fully endorse the Cocke County Regional Solid Waste Management Plan. By signatures below the Solid Waste Management Plan will become an official document of record this 14th day of June, 1994.


Chairman Ronald Lindsey

Attest: 

County Commission Approval

June 20, 1994

The Cocke County Legislative Body met in regular session Monday night, June 20, 1994 at 6:00 P.M. in the Circuit Courtroom.

The meeting was called to order by Sheriff Tunney Moore.

Prayer was given by Billy Ball.

The Pledge of Allegiance to the Flag was given by the Board and audience.

(1) Roll Call

14 Present

PRESENT

Martin McGaha
Billy Ball
Edgar Turner
Fred Lee
Ricky Ellison
Donnie Holt
Herbert Swann
Scott McClure
Tom Sutton
Bill Williamson
Terry Hux
Bill Costner
Henry Gregory
Jim Graham

I certify this to be a full, true, and

perfect copy as now on record

this 25th day of June 1994

Don Bolley Jr
Cocke County Court Clerk

(2) Approval of minutes

A motion was made by Donnie Holt to approve the minutes.

The motion was seconded by Bill Williamson.

The motion carried by acclamation.

Item No. 17 moved to this place on agenda.

(17) In the matter of approval of a 10 year solid waste management plan.

Mitch Loomus spoke to the Board concerning the 10 year solid waste management plan.

A motion was made by Bill Costner to approve the 10 year solid waste management plan.

The motion was seconded by Tom Sutton.

14 Ayes

The motion carried.

(see copy of plan at end of minutes)

AYES

Martin McGaha
Billy Ball
Edgar Turner
Fred Lee
Ricky Ellison
Donnie Holt
Herbert Swann
Scott McClure
Tom Sutton
Bill Williamson

Regional Planning Commission Minutes

Minutes of the Regular, Monthly Meeting of the Newport Regional Planning Commission (NRPC) Meeting Held June 7, 1994

Call to Order, Roll Call

The NRPC met Thursday, June 7, 1994, at 7:00 p.m., at the Municipal Building for the regular, monthly meeting. The Chairman called the meeting to order; the following were present: Clyde E. Driskill, Jr., Chairman; Danny D. Wester, Mayor; Steve Thompson; Jim Franks; Leon Bryant, Secretary; Jim McSween; and Roland Dykes, Jr., Vice-Chairman; a quorum was declared present.

Also present were the following: Mark Robinson, City Codes Officer; Ken Miller, TN State Planner; Senta Scarborough, Newport Plain Talk; and others.

Minutes

The Secretary read the minutes of the May 3, 1994 meeting, which the Chairman declared approved as read. Regarding the Cosby Highway annexation, Mark Robinson stated that a public hearing was scheduled for Thursday, June 9, 1994 at 5:00 p.m.; the first reading had already taken place with the second reading following the public hearing.

Board of Zoning Appeals (BZA)

Agenda

A copy of the agenda is attached to serve as a spread upon the minutes.

Earl Allen

Mr. Allen requested front and side yard variances for the vacant lot at 140 Riverview Street in order to place a mobile home on same. See attached sketch and plat, Lot 26, for a spread upon the minutes (Jones and Randolph Addition).

The Chairman explained that the new ordinance prohibited the placement of mobile homes except in a mobile home park inside the city limits. He further advised that since the NRPC could not approve the variance requests, Mr. Allen could appeal to City Council.

Mark Douglas

Mark Douglas wanted to construct a sanitary septic system for a mobile home that did not have sewer service. No action was taken on variances requested since he was not present.

Betty Jo Smith

Betty Jo Smith wanted to locate a single wide mobile home on 8th Street. A single wide was not permissible under the new ordinance. A sewage lift station would also be required. A house formally located on the lot had burned and was condemned. No action was taken since she was not present.

(continued)

BZA Requests

The Chairman asked that the Codes Officer not bring any similar request before the board when it was clear that the ordinance prohibited same.

NRPC

The Chairman adjourned the meeting as the BZA and convened same as the NRFC.

Newport, Cocke County, Solid Waste Plan

Mitch Lumas, ETDD, explained the requirement that the NRPC be made aware of the solid waste plan and acknowledge same. See attached document dated July 1, 1994 for a spread upon the minutes.

Charlotte Mims

Ms. Mims requested that a 15 foot rear yard set back be approved, or variance granted, for the Heatherwood Subdivision; see attached request dated June 6, 1994, legal description of the protective and restrictive covenants, and a copy of the subdivision plat for a spread upon the minutes.

Ken Miller stated that the regulations provided only for the front yard set back.

Jim McSween made a motion to ratify the proposed 15 foot rear yard set back; Roland Dykes made the second to same. Upon roll call by the Chairman, all members present voted "Aye". Said motion was declared as carried.

Doug Kitzmiller

Mr. Kitzmiller representing Theatre's Express presented a preliminary site plan to locate a movie theater complex on Heritage Blvd.

Joan Lambert and Sandra Williams expressed concern about the rear yard buffer zone and fence, trash generated, and late night disturbances.

Roland Dykes made a motion to approve the site plan on the recommendation of Ken Miller; Jim Franks made the second to this motion.

Upon roll call by the Chairman, all members present voted "Aye". Said motion was declared as carried. No copy of the site plan was given to the Secretary for the minutes.

Maloy Funeral Home

Jack Furcell requested a side yard variance to permit the installation of a HVAC outside unit adjacent to McSween Street; see attached letter dated May 13, 1994 for a spread upon the minutes.

Mark Robinson stated that the Review Committed and City Council had already approved the request. The approval was with

(continued)

the stipulation that the City be held harmless for any accidents resulting from the HVAC unit being placed on street right-of-way.

Unopened ROW

No one was present to request the closure of unopened street right-of-way as listed on the agenda. The matter was postponed pending the presentation of a "quit claim" deed and subdivision plat of the property.

Subdivision Regulations

Ken Miller presented a copy of the first ten pages of the NRCP subdivision regulations, which are attached to serve as a spread upon the minutes. He requested that these be reviewed for changes prior to the July meeting.

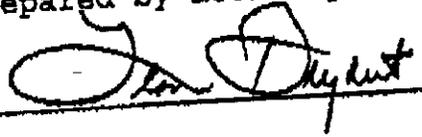
Paul Webb

Mark Robinson stated that Paul Webb had sold the Filbert Street property where he proposed to locate a mobile home park.

Adjournment

There being no further business to come before the meeting, the Chairman declared same adjourned.

Prepared by Leon Bryant, Secretary



REC'D
JUL 1 1994
EAS TENNESSEE
COMMISSION DISTRICT

MINUTES OF THE COCKE COUNTY REGIONAL PLANNING COMMISSION

The regular meeting of the Cocke County Regional Planning Commission was held on Tuesday, June 7, 1994 in the County Executives Conference Room, Newport, Tennessee.

Members Present:
Larry Webb, Chairman
James Goodrum
Mike Johnson
Olie Williamson
Jane Hill
Lee Willis

Members Absent:
Doug Shoemaker
Keith Keller
Jerry Wilde

Also Present: interested citizens

The meeting was called to order at 6:00 P. M. by the chairman. Minutes of the April 5, 1994 meeting were approved as written.

Review plat of Charlie Barger Property

Commission reviewed a plat of the Charlie Barger Estate Subdivision for preliminary and final approval. Staff pointed out that utility easements for side and rear lot lines were needed and that certifications for sewer/water, streets, and the owners signature should also be included on the plat. Following further discussion Mr. Johnson made a motion that the plat be approved subject to property easements and certifications as outlined by staff. Mr. Williamson seconded the motion. The motion passed by unanimous vote of the commission.

Review Census Data Pertaining to Family Income

Commission briefly reviewed census data pertaining to family income and the aging population of the U. S. The data showed that the median family income for all families was \$35.225. Data concerning population under 20 years of age showed that states such as North Carolina, Florida and Tennessee will see an increase in older persons, while Alaska, California and Texas are among many western states that will show a significant increase in persons that are under 20 years of age.

Report from Mr. Mitch Lumas, East Tennessee Development District on Cocke County's Solid Waste Plan

Mr. Mitch Lumas, East Tennessee Development District official, presented Cocke County's Solid Waste Plan to the commission. Mr. Lumas explained the purpose of the plan and reviewed the costs involved in implementing the plan.

Following Mr. Lumas report commission thanked him for his efforts on behalf of Cocke County and stated that the report will be an important tool in the ongoing battle to insure that Cocke County's solid waste needs are met.

Review Kelly Williamson Property

Commission reviewed a plat submitted by Mr. Kelly Williamson. The property is located off Pepper Road, and contains approximately 16 acres divided into six lots. Commission members pointed out that a turn around was needed, a right-of-way dedicated to the county, health department signatures, utility easements, and a statement that the road grade does not exceed 15 percent. Once these requirements are met, the commission agreed to review the plat for final approval.

There being no further business the meeting adjourned at 7:15 P.M.

Signed: _____

Approved: _____

FLOW CONTROL AND PERMIT APPLICATION REVIEW**I. New Facility Permit Application Review****A. Basis For Review**

The review of any application for landfill approval with the Cocke County Regional Solid Waste Board will be based upon compliance with the intent of the plan as written, approved, and adopted. The primary questions which must be answered will be as follows:

1. Will the additional landfill volume be needed for the region to maintain environmentally acceptable and cost-effective Class I disposal volume for the waste generated within the region?
2. Will the location of the new landfill or extension within the region provide for more cost-effective disposal of Class I waste without sacrificing environmental acceptability?
3. Is the location of the facility suitable for a landfill to serve the Cocke County Region?
4. Will the cost impacts for providing infrastructure (roads, water, etc.) for bringing out-of-region waste into the region exceed the cost savings provided by the additional landfill facility?

B. Application and Review Procedure

1. A copy of the Part 1 Solid Waste Disposal Facility Permit Application shall be submitted to the chairman of the Cocke County Solid Waste Regional Board prior to submittal of said document to the Division of Solid Waste Management. In addition to the DSWM Part 1 application, this submittal shall include the following:
 - a. Estimated total volume of the facility in tons of waste.
 - b. Proposed daily tonnage of the facility.
 - c. Proposed service area of the facility.
 - d. Map showing the location of the site suitable for advertisement.
 - e. Map showing current zoning of the site with a description of any special permits of re-zoning required and the status of same.
 - f. General site layout map showing proposed approximate landfill footprint, access roads, and solid waste management facilities proposed, etc.
 - g. Any preliminary site evaluation studies available.
 - h. An application fee will be established to cover the costs of the advertisement, public hearing, etc.

2. The Solid Waste Board Chairman will advertise the proposal in the local newspapers of the county in which the disposal facility is proposed as well as in the newspapers of any region which has a portion of their land mass within 5 miles of the proposed facility. This advertisement will include the following information:
 - a. General description of the proposed facility.
 - b. Road address and location relative to incorporated or unincorporated municipalities.
 - c. Map showing the location of the site.
 - d. Date, time, and location of public hearing (must be at least 28 days after advertisements runs).
 - e. Dates of public comment period.
 - f. Address for mailing of public comments.
3. The Planning Board Chairman will send copies of the application to each member of the Solid Waste Planning Board, the County Executive(s), and the Tennessee Division of Solid Waste Management.
4. The Solid Waste Planning Board will call a special meeting which will act as the public hearing.
5. The public hearing will be in a presentation format. The applicant will present a 15 minute discussion of the proposed project. This will be followed by a fifteen minute report from a representative of the Solid Waste Planning Board. The public comment period will follow with comments limited to 5 minutes per person.
6. At the end of the public hearing, the Solid Waste Planning Board will schedule another special meeting to be a minimum of two weeks and a maximum of four weeks after the public hearing.
7. At the second special meeting the Solid Waste Planning Board will discuss the issue and then will vote to reject or not to reject the application.
8. The Solid Waste Planning Board may reject an application for a new solid waste disposal facility or incinerator or expansion of an existing solid waste disposal facility or incinerator within the region only upon determining that the application is inconsistent with the Solid Waste Management Plan adopted by the region and approved by the State Division of Solid Waste Assistance. The region shall document in writing the specific grounds on which the application is inconsistent with the plan. The vote will be decided by a simple majority. In the event of a tie vote, any abstentions will be repolled for a vote. In the event that the vote remains tied, a new special meeting will be called within two weeks and the application will be voted on again. In the event that the outcome remains a tie, the application will automatically be rejected. The outcome will be provided to the owner and the Tennessee Division of Solid Waste Management.

9. Upon either the rejection or approval of the Solid Waste Board, the applicant shall proceed to the County Commission for final approval or denial. Any additional procedures that are needed for County Commission approval will be carried out by the applicant.
10. Approval of the application will allow the applicant to proceed with the full permitting process of the State. The State review process will determine the technical acceptability of the proposal. The Solid Waste Board's decision is based on siting and need for the facility.
11. Rejection of the proposal by the County Commission will result in the decision that the proposal is not consistent with the region's Solid Waste Management Plan; and, therefore, the facility cannot proceed through the State permitting process. Where a region rejects an application, the DSWM shall not issue the permit unless they find that the decision of the region is arbitrary and capricious and unsupported in the record developed before the region.
12. Appeal of final actions of the region, shall be taken by an aggrieved person within thirty (30) days to the Cocke County Chancery Court. The court shall exercise the same review as it would in a case arising under Tennessee Code Annotated, Title 4, Chapter 5. For the purposes of this section, an "aggrieved person" shall be limited to persons applying for permits, persons who own property or live within a three (3) mile radius of the facility or site that is proposed for permitting, or cities and counties in which the proposed facility is located.

II. Flow Control

Currently the Cocke County Regional Solid Waste Board does not see the need to suggest either an out of region ban or an intra-region flow control ordinance. It is understood that the plan does show the flow control avenues that will be taken in the ten year plan. If these flow control avenues are threatened in the future, such ordinance by the County Commission may need to be passed and enforced.

Appendix A

Legal Documentation and Organization of the Region

1. Certified Copy of the Resolution establishing the region.
2. Members and Officers of the Board.
 - a. Appointment Letters.
3. Role of the Board.
 - a. Mission Statement
 - b. Summary of Activities
4. Certification of Financial Accounting in Region.

Resolution

A RESOLUTION CREATING
COCKE 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 96th 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 work 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, Cocke 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 region plans; and

WHEREAS, the primary and prevailing purpose of the municipal solid waste regions are the preparation of municipal solid waste regional 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 Cocke County.

NOW, THEREFORE BE IT RESOLVED, by the Board of County Commissioners of Cocke 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 Cocke 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 Cocke County, Tennessee finds and determines that Cocke County shall be and shall constitute a single county municipal solid waste region due to the following:

- 1) All surrounding Tennessee Counties have formed single County regions.
- 2) Escalated cost of transporting Cocke County's solid waste thru adjoining Counties to another County.
- 3) Additional tax cost to citizens of Cocke County to establish Landfill to take solid waste from another County.

BE IT FURTHER RESOLVED, that pursuant to T.C.A. § 68-211-813 (b) (1), a Municipal Solid Waste Region Board is hereby established to administer the activities of this Region; and

BE IT FURTHER RESOLVED, that this Municipal Solid Waste Region Board shall be composed of (odd number between 5 and 15) members; and

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

BE IT FURTHER RESOLVED, that members of the Board of the Municipal Solid Waste Region shall serve a six (6) year term except that one (1) member appointed by the County Executive shall have a two (2) year term, one (1) member appointed by the County Executive shall have a four (4) year term, one (1) member appointed by the County Executive shall have a six (6) year term, that one (1) member appointed by the Mayor of Newport shall have a two (2) year term, and that one (1) member appointed by the Mayor of Newport shall have a four (4) 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 Cocke 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 Cocke 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 chairman, vice-chairman, and secretary 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, Cocke County, City of Newport, and to apply for and receive donations and grants from private corporations and foundations; and

BE IT FURTHER RESOLVED, that Cocke 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 Cocke County shall transmit a copy of this Resolution to the Tennessee State Planning Office.

RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF COCKE COUNTY TENNESSEE, this 16th day of November, 1992, the welfare of the citizens of Cocke County requiring it.

SPONSOR

Billy Ball
Billy Ball, Chairman
Cocke County Legislative Body Landfill Committee

APPROVED:

Harold E. Cates
Harold E. Cates
Cocke County Executive

ATTEST:

Don Boley
Don Boley
County Clerk

APPROVED AS TO FORM:

Clyde Dunn
Clyde Dunn
County Attorney

I certify this to be a full, true, and perfect copy as now on record
this 28th day July 1994
Don Boley
Cocke County Court Clerk pp-356-358

**Members
and
Officers
of
Regional
Board**

REGION OF COCKE COUNTY SOLID WASTE BOARD MEMBERS

Member	Representation	Terms of Office
1. Ronald Lindsey	Newport (Chair)	2
2. Dr. Nathan Ford	County (Vice-Chair)	4
3. Lee Baker	Newport (Secretary)	4
4. Charlotte Leibrock	County	6
5. Gay Webb	County	2

Meetings were held the 2nd Tuesday of each month at 2:00 pm at the Cocke County Courthouse Annex.

Appointment Letters

CALLED MEETING

JANUARY 27, 1993

THE CITY COUNCIL FOR THE CITY OF NEWPORT MET IN CALLED SESSION JANUARY 27, 1993 AT 12:00 NOON IN THE CITY COUNCIL ROOM.

MAYOR DANNY WESTER PRESIDED OVER THE MEETING.

MEMBERS PRESENT: HAROLD ALLEN, STEVE SHAVER AND JOE BURCHETTE.
MEMBERS ABSENT: ROLAND DYKES AND LYNN BUTLER.

RESOLUTION FOR NEWPORT GRAMMAR SCHOOL CAPITAL OUTLAY NOTES :2ND READING
MOTION WAS MADE BY STEVE SHAVER AND SECONDED BY JOE BURCHETTE TO GIVE
NEWPORT GRAMMAR SCHOOL \$100,000.00 FROM FUND BALANCE AND TO BORROW
\$87,000.00 ON THREE YEAR CAPITAL OUTLAY NOTE FOR HEATING AND COOLING
REPAIRS AT NEWPORT GRAMMAR SCHOOL. ALL AYES IN FAVOR.
FOR RESOLUTION: REFER TO MISCELLANEOUS BOOK 7 PAGES 264-267.

ORDINANCE TO ANNEX A PORTION OF RANKIN ROAD : 2ND READING
MOTION WAS MADE BY STEVE SHAVER AND SECONDED BY HAROLD ALLEN TO ANNEX A
PORTION OF RANKIN ROAD AS REQUESTED BY JAY GRAHAM.
ALL AYES IN FAVOR.
FOR ORDINANCE: REFER TO MISCELLANEOUS BOOK 7 PAGES .

SOLID WASTE BOARD
MOTION WAS MADE BY HAROLD ALLEN AND SECONDED BY JOE BURCHETTE TO NOMINATE
RONALD LINDSEY AND LEE BAKER TO SERVE ON THE SOLID WASTE BOARD WITH THE
COUNTIES BOARD MEMBERS.
ALL AYES IN FAVOR.

RESOLUTION FOR PETITION TO CLOSE SISK CIRCLE
MOTION WAS MADE BY HAROLD ALLEN AND SECONDED BY STEVE SHAVER TO CLOSE
SIK CIRCLE AND MAKE A QUIT CLAIM DEED.
ALL AYES IN FAVOR.
FOR RESOLUTION: REFER TO MISCELLANEOUS BOOK 7 PAGES 268-269

THERE BEING NO OTHER BUSINESS JOE BURCHETTE MADE A MOTION TO ADJOURN.

ATTEST 1/27/93

Jack Shepherd
JACK SHEPHERD, CITY RECORDER

Danny Wester
DANNY WESTER, MAYOR

KDH

January 19, 1993

The Cocke County Legislative Body met in regular session Tuesday, night, January 19, 1993 at 6:00 P.M. in the Circuit Courtroom.

The meeting was called to order by Sheriff Tunney Moore.

Prayer was given by Billy Ball.

The Pledge of Allegiance to the Flag was given by the Board and audience.

James Graham, Chairman presided at the meeting.

Additions to the agenda were asked for:

Lee Bonnifeild to speak concerning National Flood Insurance Board of Appeals.
Bill Costner to speak on two resolutions, one concerning Jefferson Cocke Utility Board and the other concerning no-smoking in the Courthouse.
Billy Ball on Edwina Community Center repairs.
Lynne Bright--not specified

(1) Roll Call

14 Present

PRESENT

Martin McGaha
Billy Ball
Edgar Turner
Fred Lee
Ricky Ellison
Donnie Holt
Herbert Swann
Scott McClure
Tom Sutton
Bill Williamson
Terry Hux
Bill Costner
Henry Gregory
Jim Graham

I certify this to be a full, true, and
perfect copy as now on record
this 28th day July 1994

Don Baller
Cocke County Court Clerk

pgs. 3-8

(2) Approval of minutes

A motion was made by Edgar Turner to approve the minutes.

The motion was seconded by Tom Sutton.

The motion carried by acclamation.

(3) Adoption of reports

A motion was made by Martin McGaha to adopt the reports submitted.

The motion was seconded by Herbert Swann.

The motion carried by acclamation.

(7) In the matter of appointment of a Solid Waste Regional Board.

A motion was made by Billy Ball to appoint the following members to the Solid Waste Regional Board:

Charlotte Leibrock	6 yr. term
Nathan Ford	4 yr. term
Gay Webb	2 yr. term

The motion was seconded by Tom Sutton.

The motion carried by acclamation.

(8) In the matter of appointment of Ambulance Service Board member.

A motion was made by Billy Ball to appoint the following members to the Ambulance Service Board:

Raymond Sutton	3 Yr. term
Wayne Buckner	3 yr. term
Herbert Swann	3 yr. term

The motion was seconded by Fred Lee.

The motion carried by acclamation.

(9) In the matter of approval of interfund loans for Cocke County Board of Education.

A motion was made by Martin McGaha to approve the interfund loans for Cocke County Board of Education.

The motion was seconded by Bill Williamson.

14 Ayes The motion carried.

AYES

Martin McGaha
Billy Ball
Edgar Turner
Fred Lee
Ricky Ellison
Donnie Holt
Herbert Swann
Scott McClure
Tom Sutton
Bill Williamson
Terry Hux
Bill Costner
Henry Gregory
Jim Graham

(10) In the matter of budget transfers for Littergrant.

A motion was made by Scott McClure to approve the budget transfers for Littergrant.

The motion was seconded by Tom Sutton.

Financial Accounting Letters

**COCKE COUNTY EXECUTIVE
HAROLD E. CATES**

Room #212 • Court House • 111 Court Avenue • Newport, Tennessee 37821 • (615) 623-8791

28 June 1994

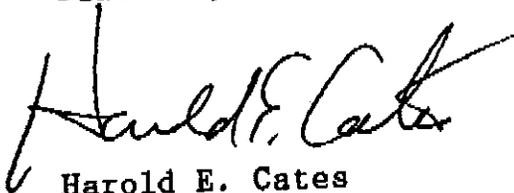
TO WHOM IT MAY CONCERN:

Please accept this letter as verification that Cocke County, Tennessee, does have a separate Solid Waste Fund. In fact, Cocke County has two (2) separate funds for Solid Waste:

- Fund 116 - Collections/Sanitation
- Fund 207 - Disposal.

Enclosed you will find the Cocke County Trustee's Report for the month of June 1994, showing these two independent funds.

Sincerely,



Harold E. Cates
Cocke County Executive

Sworn and subscribed before me
this 28th day of June,
1994.

Notary Public: M. Jane Hill
My commission expires: 10-1-94

City of Newport

P. O. Box 370
Newport, Tennessee 37821

DANNY D. WESTER
MAYOR

ROLAND DYKES
VICE-MAYOR

ALDERMEN:
HAROLD ALLEN
JOHN BELL
PAUL JAMES
STEVE SHAVER

JACK SHEPHERD
RECORDER

ROY T. CAMPBELL
CITY ATTORNEY

BUDDY DON RAMSEY
CHIEF OF POLICE

ROGER BUTLER
FIRE CHIEF

July 26, 1994

To Whom It May Concern:

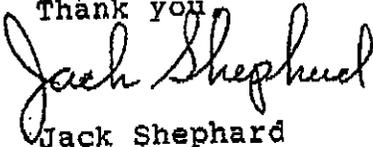
This is to verify that the proposed budget for the City of Newport for the fiscal year 1994-1995 separates the solid waste expenditures from all other departments.

This budget has not been passed by the City Council yet. There is no problem with the Solid Waste Proposal and it is certain that it will be enacted as proposed.

I have attached a copy of the page in the budget which includes the Solid Waste Department.

If you have any questions concerning this matter please contact Jack Shephard at (615) 623-7323.

Thank you



Jack Shephard
City Recorder

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City of Newport, Tennessee
Sanitation Fund -- Fund No. 131
For the Year Ended June 30, 1995

CERTIFIED POPULATION

	FY-93 ACTUAL	AMENDED BUDGET 1993-94	PROJECTED 1993-94	PROPOSED 1994-95	APPROVED FY-95
REVENUE					
Refuse Collection Charges			0	\$1,800	
App. Trasf-Gen Fund			0	307,434	
TOTAL REVENUE	\$0	\$0	\$0	\$309,234	

	FY-93 ACTUAL	AMENDED BUDGET 1993-94	PROJECTED 1993-94	PROPOSED 1994-95	APPROVED FY-95
APPROPRIATIONS					
SANITATION & RECYCLING				\$184,757	
Salaries				14,134	
FICA				48,242	
Employee Insurance				2,771	
Retirement				9,000	
Workman Compensation				1,000	
Telephone				11,000	
Repair & Maint-Sanitation				4,000	
Landfill Services				3,000	
Supplies				800	
Food & Coffee				1,650	
Clothing & Uniform				15,000	
Gas & Oil				3,000	
Tires & Tubes				9,500	
Insurance				1,380	
Equipment Rental					
TOTAL SANIT & RECYCLING				\$0	\$309,234

Appendix C

Public Participation Activities

1. Summary of workshops, public information meetings, informational and educational activities.
 2. An attendance list, and summary of Public Hearing.
-

CALLED MEETING

JANUARY 27, 1993

THE CITY COUNCIL FOR THE CITY OF NEWPORT MET IN CALLED SESSION JANUARY 27, 1993 AT 12:00 NOON IN THE CITY COUNCIL ROOM.

MAYOR DANNY WESTER PRESIDED OVER THE MEETING.

MEMBERS PRESENT: HAROLD ALLEN, STEVE SHAVER AND JOE BURCHETTE.
MEMBERS ABSENT: ROLAND DYKES AND LYNN BUTLER.

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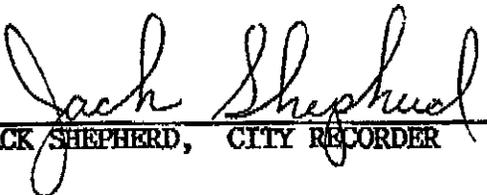
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SOLID WASTE BOARD
MOTION WAS MADE BY HAROLD ALLEN AND SECONDED BY JOE BURCHETTE TO NOMINATE RONALD LINDSEY AND LEE BAKER TO SERVE ON THE SOLID WASTE BOARD WITH THE COUNTIES BOARD MEMBERS.
ALL AYES IN FAVOR.

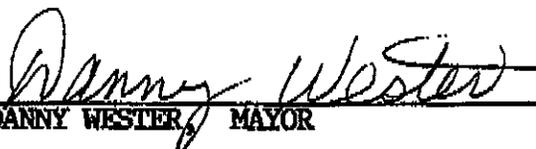
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THERE BEING NO OTHER BUSINESS JOE BURCHETTE MADE A MOTION TO ADJOURN.

ATTEST 1/27/93



JACK SHEPHERD, CITY RECORDER



DANNY WESTER, MAYOR

Role of the Board

Mission Statement

The goal of the Cocke County Regional Solid Waste Board is to analyze the existing solid waste management system in the region and develop a 10 year plan for the region of Cocke County. It is the intent of the Solid Waste Board to develop a plan that not only meets all State requirements, but is also a plan that financially can be handled by the region of Cocke County. The Solid Waste Board will attempt to get input from the public and the County Commission in order to develop a plan that meets their desires and needs for the upcoming 10 year cycle. The following table represents a implementation schedule for the development of the plan:

Components:	Completion Dates:
Analyze Existing Solid Waste System:	February, 1993
Develop Waste Reduction Plan:	April, 1993
Develop Disposal Plan:	July, 1993
Develop Recycling Plan:	August, 1993
Develop Collection Plan:	August, 1993
Develop HHW Plan:	May, 1994
Finalize and Adopt Solid Waste Management Plan:	June, 1994
Hold Public Hearing:	May, 1994
Present Solid Waste Plan to Municipal Planning Boards:	April, 1994
Present Solid Waste Plan to County Commission for Approval:	May, 1994
Submit Solid Waste Plan to State:	July, 1994

Summary of Activities

A. Finance Committee

Goal: Establish a plan for regional solid waste management expenditures for next 10 years utilizing full-cost accounting methods.

Board Member(s): Lee Baker

Objectives	Tasks	Completion
Prepare detailed financial statement for all solid waste expenditures and revenues for County and Cities in FY 93.	<ol style="list-style-type: none"> 1. Collect information from County and Cities on solid waste expenditures and revenues. 2. Identify sources for existing solid waste budget(s). 3. Assess and evaluate expenditures and revenues for all solid waste services in FY 93 for Cities and County. 4. Combine all information into regional summary. 	May-Aug, 1993
Plan for financing capital improvements in Region.	Determine potential capital improvement costs and integrate into budget plan.	Sept-Oct, 1993
Prepare 10 year budget to implement Regional Plan for planned solid waste services: collection, recycling, waste reduction, disposal, public education, problem wastes, etc.	<ol style="list-style-type: none"> 1. Receive options chosen for each solid waste component using cost analysis. 2. Review cost analysis. 3. Identify sources of revenue to support planned solid waste management system. 4. Integrate 10 year budgets for all planned solid waste services. 	Dec, 1993

B. Education Committee

Goal: Establish a plan for regional solid waste education program aimed at businesses, industries, schools, and citizens which addresses recycling, waste reduction, collection and other solid waste management options and costs.

Board Member(s): Charlotte Leibrock-

Objectives	Tasks	Completion
Identify existing solid waste educational programs in Region and determine strengths and weaknesses.	<ol style="list-style-type: none">1. Evaluate needs assessment data.2. Collect additional data on existing programs in Region.3. Collect data on litter and illegal dumping.4. Determine State criteria for solid waste education program.	May-July, 1993
Define regional needs for public information/education program to support solid waste management plan.	<ol style="list-style-type: none">1. Review analysis from Chapters II and III in guidelines document.2. Gather input on needs from additional sources: schools, media, public, etc.3. Identify strategies to address Regional needs.	May-July, 1993
Estimate program costs.	<ol style="list-style-type: none">1. Identify existing and potential revenues for program.2. Cost analysis of program options.	Aug-Oct, 1993
Establish public information/education program.	<ol style="list-style-type: none">1. Utilize existing groups to plan education program (schools, private sector, media, etc.)2. Prepare funding plan.	Jan, 1994

C. Disposal Committee

Goal: Establish a plan for 10 year disposal capacity assurance for the Region.

Board Member(s): Dr. Nathan Ford

Objectives	Tasks	Completion
Identify existing disposal system and determine strengths and weaknesses.	<ol style="list-style-type: none">1. Review data on disposal capacity and facilities in needs assessment.2. Review disposal facility plan prepared by engineer.3. Update significant changes if necessary.	May-July, 1993
Determine projected disposal capacity for Region.	<ol style="list-style-type: none">1. From analysis in Chapters II and III of guidelines document compare disposal demand with current and planned disposal supply.2. Determine shortfall/surplus in disposal capacity.3. Plan capacity assurance for 10 years.	Aug-Oct, 1993
Develop plan for banning waste tires, batteries, HHW and used oil from landfill in Region.	<ol style="list-style-type: none">1. Identify existing local laws or ordinances to support bans.2. Make recommendations to County Commission.	Jan-March, 1994
Prepare 10 year operation and maintenance budget.	Cost Analysis.	April, 1994

E. Waste Reduction Committee

Goal: Evaluate existing waste stream characteristics and waste projection in Region and develop future waste flow patterns. Develop a plan to reduce by 25% per capita by December 1995, the amount of solid waste disposed in the region.

Board Member(s): Gay Webb

Objectives	Tasks	Completion
Determine existing waste stream characteristics for Region.	<ol style="list-style-type: none">1. Evaluate needs assessment data.2. Collect additional data.3. Assess and evaluate waste stream data.	June, 1993
Determine waste projections and disposal capacity needs for next 10 years.	<ol style="list-style-type: none">1. Review needs assessment data.2. Update information.3. Compute waste projections.4. Finalize information.	July, 1993
Identify existing waste reduction activities in Region and determine strengths and weaknesses.	<ol style="list-style-type: none">1. Evaluate needs assessment data.2. Collect additional data.3. Compare existing reduction system in Region to waste disposal reduction goal Rule 1200 -1-7.4. Identify program needs.	Sept, 1993
Define Regional needs to achieve waste reduction goal.	<ol style="list-style-type: none">1. Review waste stream, projections and reduction data.2. Identify strategies to address 25% reduction goal.3. Allocate responsibility among local governments and private sector for waste reduction.	Jan, 1994
Develop future waste flow patterns for the region.	<ol style="list-style-type: none">1. Integrate waste reduction methods into institutional structure.2. Identify staff, training and budget needs.	March, 1994

Financial Accounting Letters

**COCKE COUNTY EXECUTIVE
HAROLD E. CATES**

Room #212 • Court House • 111 Court Avenue • Newport, Tennessee 37821 • (615) 623-8791

28 June 1994

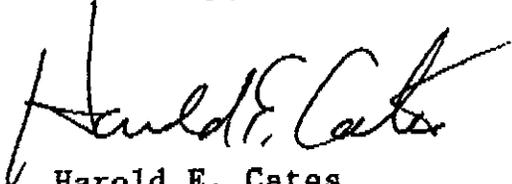
TO WHOM IT MAY CONCERN:

Please accept this letter as verification that Cocke County, Tennessee, does have a separate Solid Waste Fund. In fact, Cocke County has two (2) separate funds for Solid Waste:

- Fund 116 - Collections/Sanitation
- Fund 207 - Disposal.

Enclosed you will find the Cocke County Trustee's Report for the month of June 1994, showing these two independent funds.

Sincerely,



Harold E. Cates
Cocke County Executive

Sworn and subscribed before me
this 28th day of June,
1994.

Notary Public: M. Jane Hill
My commission expires: 10-1-94

D. Collection Committee

Goal: Establish a plan to provide accessible collection to 90% of all residents, one or more sites for collection of recyclable materials and provisions for handling problem wastes in the Region.

Board Member: Ronald Lindsey

Objectives	Tasks	Completion
Determine service areas and program strengths and weaknesses in Region.	<ol style="list-style-type: none"> 1. Evaluate needs assessment data. 2. Collect additional data on service area (hauler survey, mapping, etc.) 3. Compare existing collection system in Region to convenience center Rule 1200-1-7 and identify unserved areas and program needs. 	June, 1993
Define Regional needs to establish access of household collection to 90% of all residents in Region.	<ol style="list-style-type: none"> 1. Review existing service areas and program analysis. 2. Identify strategies to achieve program needs and formulate alternatives. 3. Identify costs and select alternatives. 	Sept, 1993
Develop problem waste collection program: HHW, waste oil and auto fluids, waste tire, batteries and litter.	<ol style="list-style-type: none"> 1. Collect data on existing handling practices in Region for problem wastes. 2. Identify options to handle problem wastes and formulate alternatives. 3. Identify costs and select alternatives. 	March, 1994
Establish plan for collection of recyclable materials.	<ol style="list-style-type: none"> 1. Evaluate needs assessment data. 2. Collect additional data on current public and private recycling efforts. 3. Identify strategies to enhance recycling in Region and alternatives. 4. Identify costs and select alternatives. 	March, 1994
Combine selected alternatives into comprehensive collection plan.	Prepare comprehensive collection plan.	April, 1994

City of Newport

ROLAND DYKES
VICE-MAYOR

ALDERMEN:

HAROLD ALLEN
JOHN BELL
PAUL JAMES
STEVE SHAVER

P. O. Box 370
Newport, Tennessee 37821

DANNY D. WESTER
MAYOR

JACK SHEPHERD
RECORDER
ROY I. CAMPBELL
CITY ATTORNEY
BUDDY DON RAMSEY
CHIEF OF POLICE
ROGER BUTLER
FIRE CHIEF

July 26, 1994

To Whom It May Concern:

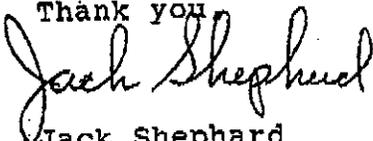
This is to verify that the proposed budget for the City of Newport for the fiscal year 1994-1995 separates the solid waste expenditures from all other departments.

This budget has not been passed by the City Council yet. There is no problem with the Solid Waste Proposal and it is certain that it will be enacted as proposed.

I have attached a copy of the page in the budget which includes the Solid Waste Department.

If you have any questions concerning this matter please contact Jack Shephard at (615) 623-7323.

Thank you.



Jack Shephard
City Recorder

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City of Newport, Tennessee
Sanitation Fund -- Fund No. 131
For the Year Ended June 30, 1995

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CERTIFIED POPULATION

		FY-93 ACTUAL	AMENDED BUDGET 1993-94	PROJECTED 1993-94	PROPOSED 1994-95	APPROVED FY-95
	REVENUE					
				0	\$1,800	
34430	Refuse Collection Charges			0	307,434	
36410	App. Transf-Gen Fund					
	TOTAL REVENUE	\$0	\$0	\$0	\$309,234	

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		FY-93 ACTUAL	AMENDED BUDGET 1993-94	PROJECTED 1993-94	PROPOSED 1994-95	APPROVED FY-95
	APPROPRIATIONS					
43200	SANITATION & RECYCLING				\$184,757	
110	Salaries				14,134	
141	FICA				48,242	
142	Employee Insurance				2,771	
143	Retirement				9,000	
146	Workman Compensation				1,000	
245	Telephone				11,000	
260	Repair & Maint-Sanitation				4,000	
295	Landfill Services				3,000	
300	Supplies				800	
323	Food & Coffee				1,650	
326	Clothing & Uniform				15,000	
331	Gas & Oil				3,000	
334	Tires & Tubes				9,500	
510	Insurance				1,380	
533	Equipment Rental					
	TOTAL SANIT & RECYCLING			\$0	\$309,234	

Appendix C

Public Participation Activities

- 1. Summary of workshops, public information meetings, informational and educational activities.**
 - 2. An attendance list, and summary of Public Hearing.**
-

Minutes of Meetings

Public Hearing

Public Hearing
June 20, 1994
5:00 p.m.

1. Mitch Spence
2. Gary Gregory
3. M. Jane Hill
4. Randall D. Lindsey
5. James Rodica
6. Jeremy Moore

Appendix E

Review by Appropriate Municipal or Regional Planning Commission

1. A copy of the minutes of the commission meeting recording submission and review of the plan.
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Minutes of the Regular, Monthly Meeting of the Newport Regional Planning Commission (NRPC) Meeting Held June 7, 1994

Call to Order, Roll Call

The NRPC met Thursday, June 7, 1994, at 7:00 p.m., at the Municipal Building for the regular, monthly meeting. The Chairman called the meeting to order; the following were present: Clyde E. Driskill, Jr., Chairman; Danny D. Wester, Mayor; Steve Thompson; Jim Franks; Leon Bryant, Secretary; Jim McSween; and Roland Dykes, Jr., Vice-Chairman; a quorum was declared present.

Also present were the following: Mark Robinson, City Codes Officer; Ken Miller, TN State Planner; Senta Scarborough, Newport Plain Talk; and others.

Minutes

The Secretary read the minutes of the May 3, 1994 meeting, which the Chairman declared approved as read.

Regarding the Cosby Highway annexation, Mark Robinson stated that a public hearing was scheduled for Thursday, June 9, 1994 at 5:00 p.m.; the first reading had already taken place with the second reading following the public hearing.

Board of Zoning Appeals (BZA)

Agenda

A copy of the agenda is attached to serve as a spread upon the minutes.

Earl Allen

Mr. Allen requested front and side yard variances for the vacant lot at 140 Riverview Street in order to place a mobile home on same. See attached sketch and plat, Lot 26, for a spread upon the minutes (Jones and Randolph Addition).

The Chairman explained that the new ordinance prohibited the placement of mobile homes except in a mobile home park inside the city limits. He further advised that since the NRPC could not approve the variance requests, Mr. Allen could appeal to City Council.

Mark Douglas

Mark Douglas wanted to construct a sanitary septic system for a mobile home that did not have sewer service. No action was taken on variances requested since he was not present.

Betty Jo Smith

Betty Jo Smith wanted to locate a single wide mobile home on 8th Street. A single wide was not permissible under the new ordinance. A sewage lift station would also be required. A house formally located on the lot had burned and was condemned. No action was taken since she was not present.

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BZA Requests

The Chairman asked that the Codes Officer not bring any similar request before the board when it was clear that the ordinance prohibited same.

NRPC

The Chairman adjourned the meeting as the BZA and convened same as the NRPC.

Newport, Cocke County, Solid Waste Plan

Mitch Lumas, ETDD, explained the requirement that the NRPC be made aware of the solid waste plan and acknowledge same. See attached document dated July 1, 1994 for a spread upon the minutes.

Charlotte Mims

Ms. Mims requested that a 15 foot rear yard set back be approved, or variance granted, for the Heatherwood Subdivision; see attached request dated June 6, 1994, legal description of the protective and restrictive covenants, and a copy of the subdivision plat for a spread upon the minutes.

Ken Miller stated that the regulations provided only for the front yard set back.

Jim McSween made a motion to ratify the proposed 15 foot rear yard set back; Roland Dykes made the second to same.

Upon roll call by the Chairman, all members present voted "Aye". Said motion was declared as carried.

Doug Kitzmiller

Mr. Kitzmiller representing Theatre's Express presented a preliminary site plan to locate a movie theater complex on Heritage Blvd.

Joan Lambert and Sandra Williams expressed concern about the rear yard buffer zone and fence, trash generated, and late night disturbances.

Roland Dykes made a motion to approve the site plan on the recommendation of Ken Miller; Jim Franks made the second to this motion.

Upon roll call by the Chairman, all members present voted "Aye". Said motion was declared as carried.

No copy of the site plan was given to the Secretary for the minutes.

Maloy Funeral Home

Jack Purcell requested a side yard variance to permit the installation of a HVAC outside unit adjacent to McSween Street; see attached letter dated May 13, 1994 for a spread upon the minutes.

Mark Robinson stated that the Review Committed and City Council had already approved the request. The approval was with

(continued)

the stipulation that the City be held harmless for any accidents resulting from the HVAC unit being placed on street right-of-way.

Unopened ROW

No one was present to request the closure of unopened street right-of-way as listed on the agenda. The matter was postponed pending the presentation of a "quit claim" deed and subdivision plat of the property.

Subdivision Regulations

Ken Miller presented a copy of the first ten pages of the NRPC subdivision regulations, which are attached to serve as a spread upon the minutes. He requested that these be reviewed for changes prior to the July meeting.

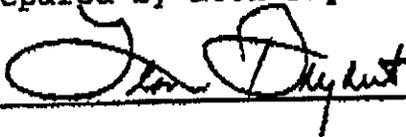
Paul Webb

Mark Robinson stated that Paul Webb had sold the Filbert Street property where he proposed to locate a mobile home park.

Adjournment

There being no further business to come before the meeting, the Chairman declared same adjourned.

Prepared by Leon Bryant, Secretary



JUL 1 1994
EAS DISTRICT

~~MINUTES OF THE COCKE COUNTY REGIONAL PLANNING COMMISSION~~
~~DISTRICT~~

The regular meeting of the Cocke County Regional Planning Commission was held on Tuesday, June 7, 1994 in the County Executives Conference Room, Newport, Tennessee.

Members Present:

Larry Webb, Chairman
James Goodrum
Mike Johnson
Olie Williamson
Jane Hill
Lee Willis

Members Absent:

Doug Shoemaker
Keith Keller
Jerry Wilde

Also Present: interested citizens

The meeting was called to order at 6:00 P. M. by the chairman. Minutes of the April 5, 1994 meeting were approved as written.

Review plat of Charlie Barger Property

Commission reviewed a plat of the Charlie Barger Estate Subdivision for preliminary and final approval. Staff pointed out that utility easements for side and rear lot lines were needed and that certifications for sewer/water, streets, and the owners signature should also be included on the plat. Following further discussion Mr. Johnson made a motion that the plat be approved subject to property easements and certifications as outlined by staff. Mr. Williamson seconded the motion. The motion passed by unanimous vote of the commission.

Review Census Data Pertaining to Family Income

Commission briefly reviewed census data pertaining to family income and the aging population of the U. S. The data showed that the median family income for all families was \$35,225. Data concerning population under 20 years of age showed that states such as North Carolina, Florida and Tennessee will see an increase in older persons, while Alaska, California and Texas are among many western states that will show a significant increase in persons that are under 20 years of age.

Report from Mr. Mitch Lumas, East Tennessee Development District on Cocke County's Solid Waste Plan

Mr. Mitch Lumas, East Tennessee Development District official, presented Cocke County's Solid Waste Plan to the commission. Mr. Lumas explained the purpose of the plan and reviewed the costs involved in implementing the plan.

Following Mr. Lumas report commission thanked him for his efforts on behalf of Cocke County and stated that the report will be an important tool in the ongoing battle to insure that Cocke County's solid waste needs are met.

Review Kelly Williamson Property

Commission reviewed a plat submitted by Mr. Kelly Williamson. The property is located off Pepper Road, and contains approximately 16 acres divided into six lots. Commission members pointed out that a turn around was needed, a right-of-way dedicated to the county, health department signatures, utility easements, and a statement that the road grade does not exceed 15 percent. Once these requirements are met, the commission agreed to review the plat for final approval.

There being no further business the meeting adjourned at 7:15 P.M.

Signed: _____

Approved: _____