

# *Overton County, Tennessee Solid Waste Planning Region*



## *Solid Waste Needs Assessment*

**Prepared by:  
The Upper Cumberland County Development District, and  
Overton County, Tennessee  
November 2009**

as required by The Solid Waste Management Act (T.C.A. §68-211-811).  
TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
Division of Solid Waste Management  
401 Church Street, 8th Floor  
Nashville, TN 37243-1533

## **INTRODUCTION**

*The Solid Waste Management Act of 1991 requires that local governments comprehensively plan to manage their solid waste through modern, integrated, efficient systems. In order to assure that such planning is carried out on the solid Waste foundation of relevant and objective knowledge of local conditions, the Act requires that staff of the Development District coordinate, conduct and maintain a Needs Assessment of each municipal solid waste planning region. This assessment shall be revised every five years [T.C.A. 68-211-811].*

The categories of information required are:

- Demographic information and projections;
- An analysis of economic activity within the Region;
- Characterization of the waste stream;
- Projection of solid waste generation;
- Evaluation of the collection systems for every municipality & county with the region;
- Evaluation of existing, new or expanded solid waste capacity and management facilities within the region;
- A statement of goals that are consistent with the state plan;
- An analysis of existing or potential waste flows within the region and between adjacent regions;
- A comparison of projected demands from waste generation & importation of waste with available and projected capacity and an identification of potential shortfalls in capacity; a
- Any additional information as the commissioner may require.

In order that the regional planning effort is implemented on a solid foundation of relevant and objective knowledge of local conditions, the Act requires the Development Districts to coordinate, conduct and maintain a Needs Assessment for each solid waste region. This Assessment shall be revised every five (5) years.

## **SECTION 1:**

### **DEMOGRAPHIC INFORMATION AND PROJECTION**

*Provide a table and chart showing the region's population for the last ten (10) years with a projection for the next five (5) years. Provide a breakdown by sub-table and sub-chart, or some similar method to detail all county and municipality populations. Discuss projected trends and how it will affect solid waste infrastructure needs over the next five (5) years.*

### **Overton County, Demographics, Statistics and General Information:**

Breathtaking views, recreational opportunities, welcoming year-round climate, as well as quick access to Cookeville, Nashville, Knoxville and Chattanooga make Livingston, Tennessee not only a great place to visit, but also a great place to work, play, and live!

Overton County’s population growth has been moderate for the past several years. This is primarily due to the large manufacturing job losses over several years. The population growth has been partially related to retirement. The Town of Livingston also continues to experience moderate growth.

**TABLE 1.1 Overton County Historic and Projected Population Trends (1996 thru 2013)**

<b>Year</b>	<b>Overton County</b>	<b>Livingston</b>	<b>Unincorporated</b>
<b>1996</b>	<b>18,749</b>	<b>3,631</b>	<b>15,118</b>
<b>1997</b>	<b>19,296</b>	<b>3,600</b>	<b>15,696</b>
<b>1998</b>	<b>19,697</b>	<b>3,569</b>	<b>16,128</b>
<b>1999</b>	<b>19,829</b>	<b>3,538</b>	<b>16,291</b>
<b>2000</b>	<b>20,171</b>	<b>3,507</b>	<b>16,664</b>
<b>2001</b>	<b>20,183</b>	<b>3,479</b>	<b>16,704</b>
<b>2002</b>	<b>20,213</b>	<b>3,476</b>	<b>16,737</b>
<b>2003</b>	<b>20,064</b>	<b>3,435</b>	<b>16,629</b>
<b>2004</b>	<b>20,365</b>	<b>3,465</b>	<b>16,900</b>
<b>2005</b>	<b>20,449</b>	<b>3,481</b>	<b>16,968</b>
<b>2006</b>	<b>20,721</b>	<b>3,518</b>	<b>17,203</b>
<b>2007</b>	<b>20,954</b>	<b>3,547</b>	<b>17,407</b>
<b>2008</b>	<b>20,975</b>	<b>3,567</b>	<b>17,408</b>
<b>2009</b>	<b>21,170</b>	<b>3,590</b>	<b>17,580</b>
<b>2010</b>	<b>22,926</b>	<b>3,620</b>	<b>19,306</b>
<b>2011</b>	<b>23,121</b>	<b>3,650</b>	<b>19,471</b>
<b>2012</b>	<b>23,316</b>	<b>3,680</b>	<b>19,636</b>
<b>2013</b>	<b>23,511</b>	<b>3,690</b>	<b>19,821</b>

Sources: Historic data are from the U.S. Census Bureau. Projections are based on data from the University of Tennessee CBER. Data compiled by the Upper Cumberland Development District, 2008.

Population growth will have a negative environmental impact if left unplanned. Unregulated construction, building standards, and undeveloped public works infrastructure, such as roads, water, sewer, and solid waste collection necessary to support residents and businesses may be problematic. While retirees may tend to increase the community’s tax base and, thus, its ability to fund development of government infrastructure and public services, the In-Migrant-Retirees Community’s willingness to provide additional funds is much less certain, according to research findings. This sentiment is disconcerting for local officials who are responsible for developing and maintaining public services.

An increase in population growth, beyond that projected in Table 1.1, could impact the existing solid waste infrastructure of Overton County. Presently, the County operates (9) convenience center sites, located across the county and communities, to collect residential household waste.

The county will depend on accessible potable water, and unfailing sewer systems to sustain the growth rate over the next five (5) years. In areas where there are no sewer lines, the installation of septic tanks is limited to 1 acre plots of land.

For now, the restrictions of impact fees for Tennessee counties could possibly limit additional revenue for Overton County which could restructure property tax allocations to fund expansions in solid waste services for local residents.

### **Economic Impact of Increasing Retiree Population**

In the past two (2) decades, most rural counties in Tennessee have witnessed declines in traditional sources of economic activity and employment, especially natural-resources based industries and manufacturing. At stake is \$2.3 trillion in annual spending power, more than half of the total highly educated retirees in the U.S., who are more likely than their parents to relocate later in life.

The UT-IPS study concluded that the high percentage of IMRs, support community and religious organizations, and environmental services. With regard to community involvement and integration, the IMR survey findings suggest, and interview comments emphasized, that IMR contributions as volunteers in non-profit organizations in the community, are widespread and of major significance as is their vitality. However, while many IMRs participate in local activities, they are more likely to have fewer friends from the local community, are relatively less concerned than locals with the availability of more higher-paying jobs and relatively more concerned with protecting forestland for recreation and wildlife habitat.

Questions have also been raised about the extent to which in-migrant retirees will be supportive of or appreciative of necessary public services: local public infrastructure for environmental protection, schools, law enforcement, or manufacturing recruitment for the resident labor force in the County.

### **Tourism Industry in Overton County**

Whether you come to play on the lake, hunt, fish, and hike or just enjoy nature, Overton County leaders encourage you to make your vacation plans, where nature's beauty is enjoyed year round.

Standing Stone State Park is situated on almost 11,000 acres in Overton County. This day use park features a recreation center, basketball, softball, archery and many other outdoor sports. The breathtaking scenery and wild flowers accentuate the State park's rustic nature.

Dale Hollow Lake is home to the largest Federal Trout Hatchery east of the Mississippi. Livingston Boat Dock provides access to the lake from Overton County. There are over 12 other marinas serving boaters along the 620 mile lake shoreline. Clear waters provide great fishing, swimming and scuba diving.

## SECTION 2:

### ECONOMIC ACTIVITY WITHIN THE REGION

Provide a table and chart showing the region's economic profile for all county and municipalities for the last ten (10) years with a projection for the next five (5) years. This can be accomplished by using the following economic indicators:

- Taxable sales, property tax generation, and per capita income
- Evaluation by break down of each economic sector
- County or municipal budgeting information
- Other commonly accepted economic indicators

Taxable sales in Overton County increased in the last five years from \$261,803 million to \$342,916 million, a \$81,113 difference. This relatively strong growth rate declined in the last few years and was actually negative for the FY 07 to FY 08 period.

Total payroll employment in the county has been growing over the past eight years increasing from \$18,393 in 2000 to \$23,348 in 2008. But, as with taxable sales, this indicator turned negative in the last year. Major growth areas were Education and Health Services, and trade transportation and utilities. The major decline sector was manufacturing jobs.

OVERTON COUNTY HISTORIC AND PROJECTED ECONOMIC INDICATORS

Year	Labor Force Data				Non-farm Wage and Salary Employment									Per Capita Income (\$'s)	Property Tax Collections (\$000's)	Taxable Sales (\$000's)	Total Bank Deposits (\$000's)
	Total	Emp	Unemployed Total	Rate(%)	Goods Producing				Service Producing								
					Total	Total	Mfg	Other	Total	Trade	Health	Gvt	Other				
1996	9,730	9,090	640	6.6	5,590	2,490	2,380	110	3,100	530	600	1,120	850	15,204	2,898	74,005	180,522
1997	9,860	8,890	970	9.8	5,400	2,300	2,170	130	3,100	570	550	1,070	910	16,048	2,958	78,658	194,110
1998	9,920	9,230	690	7.0	5,230	2,180	2,050	130	3,050	560	490	1,060	940	16,892	3,029	82,074	204,125
1999	9,910	9,350	560	5.7	4,700	1,800	1,680	120	2,900	520	450	1,020	910	17,436	3,158	86,795	219,839
2000	9,680	9,150	530	5.5	4,690	1,630	1,510	120	3,060	530	470	1,140	920	18,393	3,277	91,129	230,650
2001	9,560	8,950	610	6.4	4,740	1,610	1,490	120	3,130	560	480	1,170	920	19,179	3,552	93,856	239,880
2002	9,570	8,950	620	6.5	4,690	1,540	1,420	120	3,150	570	480	1,210	890	19,550	3,343	96,192	252,358
2003	9,650	9,040	610	6.3	4,700	1,520	1,390	130	3,180	630	480	1,190	880	20,251	4,212	105,443	261,803
2004	9,910	9,340	570	5.8	4,850	1,640	1,480	160	3,210	650	480	1,160	920	20,476	4,265	110,848	269,121
2005	9,820	9,250	570	5.8	4,870	1,600	1,370	230	3,260	660	490	1,240	870	21,222	4,868	113,669	279,485
2006	10,010	9,350	660	6.6	4,970	1,600	1,380	220	3,370	680	510	1,290	910	21,818	4,958	122,291	295,846
2007	10,030	9,280	750	7.5	4,980	1,510	1,230	280	3,450	630	550	1,300	970	22,782	5,089	120,808	324,660
2008	10,090	9,200	890	8.8	4,920	1,380	1,000	380	3,540	640	570	1,310	1,020	23,348	5,141	124,197	342,916
2009	9,950	8,600	1,350	13.6	4,700	1,230	940	290	3,470	670	510	1,310	980	24,001	5,300	111,000	340,863
2010	9,990	8,700	1,290	12.9	4,660	1,160	900	260	3,500	680	520	1,320	980	24,654	5,400	112,000	353,345
2011	10,010	8,800	1,210	12.1	4,630	1,200	850	350	3,540	700	530	1,330	980	25,307	5,600	116,000	365,828
2012	10,030	8,900	1,130	11.3	4,590	1,250	850	400	3,580	710	540	1,340	990	25,960	5,900	120,000	378,310
2013	10,050	9,000	1,050	10.4	4,580	1,300	850	450	3,620	720	550	1,350	1,000	26,613	6,200	125,000	390,792

Note: Labor force data are based on county of residence. Non-farm wage and salary data are based on county of employment.

Sources: Historic employment data are from the Tennessee Department of Labor and Workforce Development, per capita income data are from the U. S. Bureau of Economic Analysis, retail data are from Tennessee Department of Revenue, and bank deposits are from the FDIC. All projections are by the UCDD staff.

As the data shows, the Overton County economy has been and has remained relatively weak in recent years. The county lost a large number of manufacturing jobs, but with the newly operating

hydroponic lettuce production facility, HydroSerre, and Cooper Recycling in Monroe, many displaced Overton County residents are gainfully employed.

**Overton County Fiscal Budget  
Solid Waste/Sanitation  
Statement of Proposed Operations  
For the fiscal year ending June 30, 2009**

<b>Account No:</b>	<b>Description</b>	<b>Budgetary Basis 2006-2007</b>	<b>Estimated 2007-2008</b>	<b>Proposed 2009-2010</b>
<b>Estimated/Actual Revenues</b>				
<b>40000</b>	<b>LOCAL TAXES</b>			
<b>40100</b>	<b>COUNTY PROPERTY TAXES</b>			
<b>40110</b>	<b>CURRENT PROPERTY TAXES</b>	<b>2,359,789</b>	<b>2,436,558</b>	<b>2,482,668</b>
<b>40120</b>	<b>TRUSTEE'S COLLECTION -PRIOR</b>	<b>77,808</b>	<b>76,767</b>	<b>68,000</b>
<b>40130</b>	<b>CIR CLK/CLK &amp; MASTER COLLECTION</b>	<b>48,452</b>	<b>29,103</b>	<b>25,000</b>
<b>40140</b>	<b>INTEREST AND PENALTY</b>	<b>12,754</b>	<b>13,686</b>	<b>10,000</b>
<b>40163</b>	<b>PAYMENT IN LIEU OF TAXES – OT</b>	<b>228</b>	<b>150</b>	<b>0</b>
		<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL COUNTY PROPERTY TAXES</b>		<b>2,499,031</b>	<b>2,556,264</b>	<b>2,585,662</b>
<b>40300</b>	<b>STATUTORY LOCAL TAXES</b>			
<b>40320</b>	<b>BANK EXCISE TAXES</b>	<b>18,487</b>	<b>17,091</b>	<b>17,000</b>
		<b>0</b>	<b>0</b>	<b>0</b>
	<b>TOTAL STATUTORY TAXES</b>	<b>18,487</b>	<b>17,091</b>	<b>17,000</b>
	<b>TOTAL EXCISE TAXES</b>	<b>2,517,518</b>	<b>2,573,355</b>	<b>2,602,662</b>
<b>43000</b>	<b>CHARGES FOR CURRENT SERVICES</b>			
<b>43100</b>	<b>GENERAL SERVICE CHARGES</b>			
<b>43110</b>	<b>TIPPING FEES</b>	<b>710,777</b>	<b>809,384</b>	<b>685,000</b>
<b>43114</b>	<b>SOLID WASTE DISPOSAL FEE</b>	<b>40,000</b>	<b>40,000</b>	<b>40,000</b>
		<b>0</b>	<b>0</b>	<b>0</b>
	<b>TOTAL GENERAL SERVICE CHARGES</b>	<b>750,777</b>	<b>849,384</b>	<b>725,000</b>
	<b>TOTAL CHARGES FOR CURRENT SERVICE</b>	<b>750,777</b>	<b>849,384</b>	<b>725,000</b>
<b>44000</b>	<b>OTHER LOCAL REVENUES</b>			
<b>44100</b>	<b>RECURRING ITEMS</b>			
<b>44145</b>	<b>SALE OF RECYCLED MATERIALS</b>	<b>353,786</b>	<b>414,384</b>	<b>340,000</b>
<b>44170</b>	<b>MISCELLANEOUS REFUNDS</b>	<b>131</b>	<b>33</b>	<b>0</b>
		<b>0</b>	<b>0</b>	<b>0</b>
	<b>TOTAL RECURRING ITEMS</b>	<b>353,917</b>	<b>414,417</b>	<b>340,000</b>
<b>44990</b>	<b>OTHER LOCAL REVENUES</b>	<b>500</b>	<b>0</b>	<b>0</b>
		<b>0</b>	<b>0</b>	<b>0</b>
	<b>TOTAL OTHER LOCAL REVENUES</b>	<b>354,417</b>	<b>414,417</b>	<b>340,000</b>

<b>46000</b>	<b>STATE OF TENNESSEE</b>			
<b>46100</b>	<b>GENERAL GOVERNMENT GRANTS</b>			
<b>46170</b>	<b>SOLID WASTE GRANTS</b>	<b>42,273</b>	<b>42,269</b>	<b>40,000</b>
		<b>0</b>	<b>0</b>	<b>0</b>
	<b>TOTAL GENERAL GOVERNMENT GRANTS</b>	<b>42,273</b>	<b>42,269</b>	<b>40,000</b>
	<b>TOTAL STATE OF TENNESSEE</b>	<b>42,273</b>	<b>42,269</b>	<b>40,000</b>
	<b>TOTAL ESTIMATED REVENUES</b>	<b>3,664,985</b>	<b>3,879,425</b>	<b>3,707,662</b>
	<b>TOTAL OTHER SOURCES (NON-REVENUE)</b>			
<b>46000</b>	<b>STATE OF TENNESSEE</b>			
<b>46100</b>	<b>GENERAL GOVERNMENT GRANTS</b>			
	<b>TOTAL REVENUE AND OTHER SOURCES</b>	<b>3,664,985</b>	<b>3,879,425</b>	<b>3,707,662</b>
	<b>APPROPRIATED/ACTUAL EXPENDITURES/ENCUMBRANCE</b>			
<b>50000</b>	<b>GENERAL COUNTY OPERATIONS</b>			
<b>55000</b>	<b>PUBLIC HEALTH AND WELFARE</b>			
<b>55710</b>	<b>SANITATION MANAGEMENT</b>			
<b>105</b>	<b>SUPERVISOR/DIRECTOR</b>	<b>43,100</b>	<b>49,601</b>	<b>50,200</b>
<b>164</b>	<b>ATTENDANTS</b>	<b>121,826</b>	<b>125,612</b>	<b>154,000</b>
<b>169</b>	<b>PART-TIME PERSONNEL</b>	<b>13,537</b>	<b>18,349</b>	<b>37,332</b>
<b>187</b>	<b>OVERTIME-PAY</b>	<b>31,034</b>	<b>39,729</b>	<b>35,000</b>
<b>189</b>	<b>OTHER SALARIES &amp; WAGES</b>	<b>371,834</b>	<b>413,796</b>	<b>419,050</b>
<b>299</b>	<b>OTHER FRINGE BENEFITS</b>	<b>148,000</b>	<b>150,470</b>	<b>179,9000</b>
<b>307</b>	<b>COMMUNICATION</b>	<b>14,616</b>	<b>14,771</b>	<b>17,000</b>
<b>321</b>	<b>ENGINEERING SERVICES</b>	<b>7,669</b>	<b>6,216</b>	<b>8,360</b>
<b>331</b>	<b>LEGAL SERVICES</b>	<b>2,910</b>	<b>1,744</b>	<b>5,000</b>
<b>335</b>	<b>MAINTENANCE AND REPAIR SERVICE</b>	<b>20,287</b>	<b>38,008</b>	<b>66,000</b>
<b>336</b>	<b>MAINTENANCE AND REPAIR SERVICE</b>	<b>70,809</b>	<b>72,925</b>	<b>70,000</b>
<b>338</b>	<b>MAINTENANCE AND REPAIR SERVICE</b>	<b>74,630</b>	<b>89,756</b>	<b>95,000</b>
<b>355</b>	<b>TRAVEL</b>	<b>1,643</b>	<b>1,852</b>	<b>4,000</b>
<b>359</b>	<b>DISPOSAL FEES</b>	<b>1,530,928</b>	<b>1,408,209</b>	<b>1,600,600</b>
<b>361</b>	<b>PERMITS</b>	<b>150</b>	<b>150</b>	<b>400</b>
<b>399</b>	<b>OTHER CONTRACTED SERVICES</b>	<b>46,904</b>	<b>48,305</b>	<b>55,000</b>
<b>409</b>	<b>CRUSHED STONE</b>	<b>15,113</b>	<b>17,288</b>	<b>25,000</b>
<b>425</b>	<b>GASOLINE</b>	<b>79,948</b>	<b>82,748</b>	<b>90,000</b>
<b>435</b>	<b>OFFICE SUPPLIES</b>	<b>2,296</b>	<b>3,694</b>	<b>4,500</b>
<b>451</b>	<b>UNIFORMS</b>	<b>7,232</b>	<b>7,659</b>	<b>8,000</b>
<b>452</b>	<b>UTILITIES</b>	<b>40,027</b>	<b>42,119</b>	<b>46,000</b>
<b>599</b>	<b>OTHER CHARGES</b>	<b>13,461</b>	<b>6,108</b>	<b>18,000</b>
<b>707</b>	<b>BUILDING IMPROVEMENTS</b>	<b>0</b>	<b>0</b>	<b>80,000</b>
<b>718</b>	<b>MOTOR VEHICLES</b>	<b>6,512</b>	<b>0</b>	<b>10,000</b>
<b>719</b>	<b>OFFICE EQUIPMENT</b>	<b>918</b>	<b>897</b>	<b>2,000</b>
<b>733</b>	<b>SOLID WASTE EQUIPMENT</b>	<b>54,494</b>	<b>37,789</b>	<b>215,000</b>
<b>791</b>	<b>OTHER CONSTRUCTION</b>	<b>152,419</b>	<b>0</b>	<b>0</b>
	<b>TOTAL SANITATION MANAGEMENT</b>	<b>2,872,397</b>	<b>2,677,495</b>	<b>3,295,342</b>

55754	LANDFILL OPERATION AND MAINTEN.				
321	ENGINEERING SERVICES	8,145	8,504	46,600	
599	OTHER CHARGES	2,018	1,500	5,000	
791	OTHER CONSTRUCTION	42,000	43,000	57,000	
	TOTAL LANDFILL OPERATION & MAINT.	52,163	53,004	108,600	
55759	OTHER WASTE DISPOSAL				
321	ENGINEERING SERVICES	35,346	32,432	66,450	
363	CONTRACTS FOR LANDFILL FACILITY	32,000	52,500	63,900	
399	OTHER CONTRACTED SERVICES	214,638	220,433	231,435	
706	BUILDING CONSTRUCTION	0	0	65,750	
791	OTHER CONSTRUCTION	88,000	85,000	91,000	
	TOTAL OTHER WASTE DISPOSAL	369,984	390,365	518,535	
55770	POSTCLOSURE CARE COSTS				
321	ENGINEERING SERVICES	13,609	13,574	31,750	
399	OTHER CONTRACTED SERVICES	31,000	28,000	30,000	
499	OTHER SUPPLIES AND MATERIALS	12,100	12,000	13,000	
791	OTHER CONSTRUCTION	51,500	85,000	91,000	
	TOTAL POSTCLOSURE CARE COSTS	108,209	108,574	154,050	
	TOTAL PUBLIC HEALTH AND WELFARE	3,402,753	3,229,438	4,076,527	
	APPROPRIATED/ACTUAL EXPENDITURES/ENCUMBRANCE				
50000	GENERAL COUNTY OPERATIONS				
58000	OTHER OPERATIONS				
58900	MISCELLANEOUS				
510	TRUSTEE'S COMMISSION	56,649	59,704	62,000	
	TOTAL MISCELLANEOUS	56,649	59,704	62,000	
	TOTAL OTHER OPERATIONS	56,649	29,704	62,000	
	TOTAL GENERAL COUNTY OPERATIONS	3,459,402	3,289,142	4,138,527	
	TOTAL EXPENDITURES	3,459,402	3,289,142	4,138,527	
	TOTAL OTHER USES				
	TOTAL EXPEND/ENCUMB & OTHER USES	3,459,402	3,289,142	4,138,527	
	Excess of Estimated Revenue and Other Sources Over (Under) Estimated Expend. and Other Uses	205,583	590,283	430,865	
	Estimated Beg Fund Bal July 01	1,088,299	1,293,882	1,884,165	
	Undersigned Fund Balance	1,088,299			
	RESERVES	0			
	LESIGNATED FUND BAL.	0			
	BEGINNING FUND BALANCE	1,088,299			



	<b>EXCESS (DIFF.) IN REV/EXP.</b>	<b>205,583</b>		
	<b>UNADJUST FUND BALANCE</b>	<b>1,293,882</b>		
	<b>ADJUSTMENT</b>	<b>0</b>		
	<b>TOTAL ENDING BALANCE</b>	<b>1,293,882</b>		
	<b>ADJUSTMENT</b>		<b>0</b>	
	<b>ESTIMATED END FUND BALANCE JUNE 30</b>		<b>1,293,882</b>	<b>1,884,165</b>
				<b>1,453,300</b>

**SECTION 3:**

**WASTE STREAM CHARACTERIZATION**

*Elaborate on the entire region’s solid waste stream. Compare today’s waste stream with anticipated waste stream over the next five (5) years. How will the total waste stream be handled in the next five (5) years? Include in this discussion how problem wastes like waste tires, used oil, latex paint, electronics and other problem wastes are currently handled and are projected to be handled in the next five (5) years. What other waste types generated in this region require special attention? Discuss disposal options and management of these waste streams as well as how these waste streams will be handled in the future. Include in this discussion how commercial or industrial wastes are managed. Also provide an analysis noting source and amounts of any wastes entering or leaving out of the region.*

**Regional Solid Waste Stream**

All solid waste generated in the County is collected and processed at the transfer station, and then transported for disposal to the Class I Landfill owned and operated by Volunteer Landfill. Overton County offers solid waste collection and recycling for residents at nine (9) convenience center sites and a transfer station. The transfer station site also houses the County’s recycling center facility (material recovery facility).

Livingston operates a curbside residential solid waste collection service for residents and businesses. Residents of the City utilize the existing recycling center and County convenience center sites for recycling services.

**Material Flow:**

Once the material has been delivered to the proposed Overton County MRF it is processed in the following manner:

**GLASS**

Glass is crushed in a glass crusher according to color. Once this process is completed, the glass will be placed in Gaylord boxes until sufficient volume for marketing (40,000 lbs) has been reached.

1. Glass is brought pre-sorted by colors to the facility in roll-off containers.
2. Glass is dumped from roll-off onto the tipping floor.
3. Contaminants are removed from the glass.
4. Using bobcat, glass is then scoped, placed in the glass crusher, then loaded into Gaylord boxes.

## **PLASTIC**

1. Plastic is dumped onto the tipping floor.
2. The fork truck pushes plastic into the storage bay to wait for processing.
3. Plastic is then moved to the storage bay where contaminants can be removed.
4. Equipment empties good plastic directly into baler hopper.
5. Material is baled and stored.
6. Material is sold when 40 bales have accumulated or when milk run is arranged.

## **NEWSPRINT, MIXED PAPER AND CARDBOARD**

1. Paper is brought to the facility pre-sorted in roll-off containers.
2. Material is dumped onto the tipping floor.
3. Material is then moved to the storage bay for processing.
4. When ready to process, paper is placed in storage bays where the contaminants can be removed.
5. Conveyor empties good paper directly into the baler hopper.
6. Material is baled and stored until 40 bales have accumulated.

## **STEEL FOOD CANS AND ALUMINUM BEVERAGE CANS**

1. Aluminum and metal are dumped onto the tipping floor.
2. Metal and aluminum are separated and placed in hoppers until sufficient volume for processing has been accumulated.
3. Material is then moved to conveyor where contaminants are removed.
4. Conveyor empties good material directly into baler hopper.
5. Bales are stored until sufficient volumes have accumulated.

There have been no major obstacles in this process at this time. The region will continue using the layout of their solid waste plan but, there are issues that arise that warrant the need for possible changes in the plan that will be considered and needed changes will be made by the board.

**Auto Fluids** – These fluids are being recycled. No difficulties have been encountered.

**Gasoline Tanks** – These items are not being collected and recycled due to the absence of a reliable market, however the region is attempting to locate a reliable market for these items.

**Tires** – Used tires are being collected and recycled. No difficulties have been encountered other than the under reimbursement cost by the state to the local manifested tire management program.

Palestine Road has a problem with tires being dumped on roadside; the county will apply for a waste tire grant this fall

**Paint-** Overton County began a surplus paint drop-off and recycling program which has been well received.

## Waste Stream Analysis over the Next 5 Years

The commercial, industrial, and institutional sectors play an important role in the source reduction component of Overton County's waste reduction effort. Notable contributors to this effort are Fred's Discount who reduced a total of 56.45 tons, Sav-A-Lot who reduced approximately 53.14 tons and Dollar General Store who reduced approximately 55.20 tons, Hutchinson MRG, who reduced approximately 168.67 tons and Jerry's IGA, 195.20 tons, through elimination or in-house recycling of their waste streams.

The Table below summarizes how the region's total waste stream will be managed over the next five (5) years. Overton County and local businesses are listed separately to describe management methods and programs available for each sector.

### Regional Solid Waste Stream Disposal for 2007 – 2013

Class I Landfill Disposal Sites	Reported Year	Projected Year					
	2007	2008	2009	2010	2011	2012	2013
Total Regional Solid Waste Disposed in <b>Volunteer Landfill</b>  (Regional disposal figures include County and private business haulers).	11,033	10,907	11,397	11,598	11,614	11,630	11,646

Note: Reported 2007 disposal figures from TDEC SW Origin Report for 2008; Regional solid waste stream projection based on average 1% County population change presented in Table 1, as prepared by the UCDD, 2008.

As a County client of RMCT, Overton County will be relying on their expertise in this area. RMCT currently has a large database of markets both regional and national for each of the materials processed at the facility.

## **SECTION 4:**

### REGIONAL COLLECTION SYSTEMS

*Describe in detail the waste collection system of the region and every county and municipality. Provide a narrative of the life cycle of solid waste from the moment it becomes waste (loses value) until it ceases to be a waste by becoming a useful product, residual landfill material or an emission to air or water. Label all major steps in this cycle noting all locations where wastes are collected, stored or processed along with the name of operators and transporters for these sites.*

### Solid Waste and Recycling Collection Services

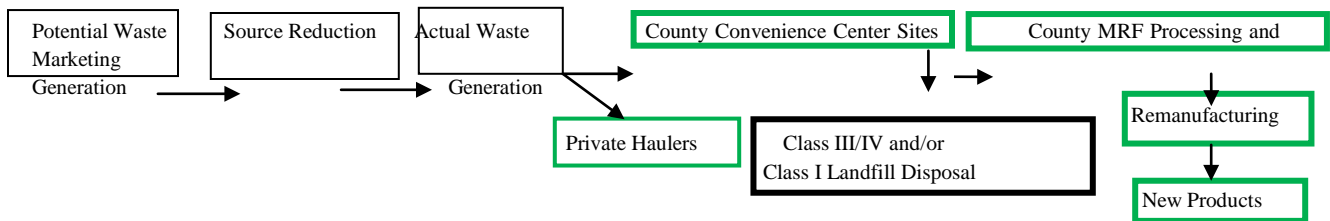
The amount and type of recyclable materials continues to grow and impacts each day's operations. The staff is dedicated and enthusiastic about waste reduction and the prospect of researching all potential end-use options and markets for any waste material generated. The energy amassed during the infancy of this program has been inspiring to anyone fortunate enough to tour the facilities; interview staff members and those privileged enough to work with local leader's soliciting input on any new options, technologies, etc.

The used oil storage tanks, waste oil heater and light-duty used oil filter crusher have also been purchased with grant funds provided through the TDEC Used Oil Grant. A heavy-duty used oil filter crusher, used oil transfer pump and additional used oil containers were requested in the 2006/07 TDEC Used Grant Application with plans to provide a comprehensive approach for handling all used oil wastes and other automobile fluids.

**Overton County Regional Solid Waste Life-Cycle**

Theoretically, the life-cycle of Waste Generation in the Region follows the management options illustrated below. Potential waste generation can be reduced at the source through measures, such as residents reusing materials or recycling materials. Manufacturers can also reduce residual waste by modifying internal operations to efficiently manage feedstock used for producing commodities, as a result, what remains is the Actual Waste Generation collected at the County Convenience Center Sites and/or collected by any private haulers.

At the County Convenience Center sites, solid and demolition waste is collected in separate containers for disposal in the respective landfills. The County also provides recycling containers for recyclable material that will be processed, marketed and remanufactured into new products. The revenue from the recyclables goes back to the County for improvements to their current recycling program. Lastly, brokers and markets sell recyclable products to manufacturers producing new products. (Adapted from Life-Cycle Study of Municipal Solid Waste Management, EPA, July 1995).



**CONVENIENCE CENTERS AND HOURS OF OPERATION**

**Hanging Limb**

216 Floyd Padgett Lane  
 Crawford, Tennessee 38554  
 931-446-3495

**Hours of Operation**

Tuesday 9:00 a.m. to 5:00 p.m.  
 Wednesday 9:00 a.m. to 5:00 p.m.  
 Friday 9:00 a.m. to 5:00 p.m.  
 Saturday 9:00 a.m. to 5:00 p.m.

This facility can receive household trash, cardboard, scrap metal, aluminum, newspaper, used motor oil, and plastic 1 and 2.

**Hilham**

195 Fisk Cemetery Road  
Hilham, Tennessee 38568  
931.823.1270

**Hours of Operation**

Tuesday 9:00 a.m. to 5:30 p.m.  
Friday 9:00 a.m. to 5:30 p.m.  
Saturday 8:00 a.m. to 4:00 p.m.

This facility can receive household trash, cardboard, scrap metal, aluminum, newspaper and plastic 1 and 2.

**Independence**

1809 Willow Grove Highway  
Allons, Tennessee 38541

**Hours of Operation**

Tuesday 9:00 a.m. to 5:30 p.m.  
Thursday 9:00 a.m. to 5:30 p.m.  
Saturday 8:00 to 4:00 p.m.

The facility can receive household trash, cardboard, scrap metal, aluminum, newspaper and plastic 1 and 2.

**Livingston**

245 Industrial Park Drive  
Livingston, Tennessee 38570  
931.823.8665

**Hours of Operation**

Monday thru Friday 8:00 a.m. to 4:30 p.m.  
Saturday 8:00 a.m. to 1:30 p.m.

This facility receives household trash, cardboard, scrap metal, aluminum, newspaper, plastic 1 and 2, brown and clear glass bottles, car batteries, used motor oil, used tires\* (fees may apply). This facility also accepts construction/demolition debris for a fee of \$40.00 per ton.

**Rickman**

3549 Rickman Road  
931.498.3942

**Hours of Operation**

Tuesday 9:00 a.m. to 5:30 p.m.  
Wednesday 8:00 a.m. to 12:00 p.m.  
Friday 9:00 a.m. to 5:30 p.m.  
Saturday 8:00 a.m. to 4:30 p.m.

This facility received household trash, cardboard, scrap metal, aluminum, newspaper, plastic 1 and 2 and used motor oil.

**Alpine**

Winston Lane  
Alpine, Tennessee 38543  
Hours of Operation  
Tuesday 9:00 a.m. to 5:00 p.m.  
Thursday 9:00 a.m. to 5:30 p.m.  
Saturday 9:00 a.m. to 5:00 p.m.

This facility receives household trash, cardboard, scrap metal, aluminum, newspaper, plastic 1 and 2.

**Hardy’s Chapel**

115 Hardy’s Chapel Road  
Cookeville, Tennessee 38506  
931.498.4737  
Hours of Operation  
Tuesday 9:00 a.m. to 5:00 p.m.  
Saturday 9:00 a.m. to 5:00 p.m.

This facility receives household trash, cardboard, scrap metal, aluminum, newspaper, plastic 1 and 2.

**Roadside Dumps Reported.**

No tonnage was reported for roadside dumps.

<b><u>Location</u></b>	<b>List of Materials that makeup these roadside dumps.</b>
Palenstein Road	Tires
Waterloo Road	Household Trash, Tires
Sunkcane Road	Household Trash, Tires
Columbia Hill Road	Household Trash, Tires
Turkeytown Road	Household Trash, Tires

**SECTION 5:**

**REGIONAL SOLID WASTE REDUCTION GOAL**

*The Solid Waste Management Act of 1991 states that all regions must reduce the amount of waste going into Class I landfills by 25%. Amendments to the Act allow for consideration of economic growth, and a “qualitative” method in which the reduction rate is compared on a yearly basis with the amount of Class I disposal. Provide a table showing reduction rate by each goal calculation methodology. Discuss how the region made the goal by each methodology or why they did not. If the Region did not met the 25% waste reduction goal, what steps or infrastructure improvements should be taken to attain the goal and to sustain this goal into the future.*

**TABLE 5.1 Measurement of Regional Waste Reduction Goal**

<b>Sectors and Modules</b>	<b>2008</b>
<b><u>RESIDENTIAL:</u></b>	
Solid Waste	10,907.72 Tons
Recycling	1,053.08 Tons
Hazardous Waste	0.31 Tons

<b>Total Tons Collected</b>	11,961.11 Tons
<i>Total Tons Diverted (for diversion calc.)</i>	1,053.39 Tons
<i>Total Tons Disposed (for diversion calc.)</i>	10,907.72 Tons
<i>Real Time Diversion Rate</i>	8.81%

**COMMERCIAL:**

Recycling	528.66 Tons
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**INDUSTRIAL:**

Recycling	N/A
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**OTHER:**

Recycling	169.68 Tons
Total Tons Collected (all sectors):	12,659.45 Tons
Total Tons Diverted (for diversion calc.):	1,751.73 Tons
Total Tons Disposed (for diversion calc.):	10,907.72 Tons
Cross-sector Real Time Diversion Rate:	13.84%

Source: TDEC, Division of Solid Waste Management, Division of Solid Waste Assistance Program, 2008

**Variables Affecting Successful Regional Waste Reduction Efforts in Overton County**

No significant setbacks have occurred. The county continues to encourage local businesses to participate in waste reduction activities and report figures to the Department. Annual outreach and encouragement directly with appropriate business contacts, is initiated by the Department.

Many of the region’s successes can be attributed to the public education programs regarding appropriate waste reduction, management and education programs, which not only encourages positive waste management habits by the public, but also builds a constituency that is willing to fund a more efficient and sound waste management program.

**Future Regional Waste Reduction Program in Overton County**

The fundamentals of public works infrastructure to supply water, sewer, electricity and natural gas as necessary utilities, for instance, must be incorporated into the process of collecting waste generated from the source, be it residential or business.

Transportation, disposal and management costs to support other facets of the waste utility industry are legitimate comparisons with the cost of providing other utilities to a modern society. Water, sewer, gas, etc. are considered necessary creature comforts for human beings. Trash management, and even environmental protection, such as water pollution control, is not considered an immediate personal comfort when the freedom to eliminate the waste can be easily and creatively practiced in the form of illegal dumping, burning or throwing trash in your own backyard, without consequence.

The connection of properly containerizing waste, revering the long-term benefits of self-preservation and safeguarding necessary environmental resources for the continued existence of our society have not been successfully internalized to produce significant behavioral changes.

Conserving any resource, whether it be water, electricity or landfill space, is not practiced concurrently. However, Overton County will continue to encourage education of waste reduction behavior for both resident and businesses.

**SECTION 6:**

**SOLID WASTE DISPOSAL CAPACITY**

*Provide a chart indicating current collection and disposal capacity by facility site and the maximum capacity the current infrastructure can handle at maximum throughput. Provide this for both Class I and Class III/IV disposal and recycled materials. Identify and discuss any potential shortfalls in materials management capacity whether these are at the collection or processor level.*

**Table A 10-year Regional Disposal Assurance in Overton County in 2008**

Site Name(s)	Annual Tons Disposed by Putnam County Region	Current Landfill Capacity (daily throughput)	Maximum Capacity	Projected Life of Facility
Volunteer Landfill	10,907.7	2.65	Depends on compaction rate, and Landfill Design and Operations Plan.	Nor available this time.

Sources: SW County of Origin Report Remaining Life Survey, Class I Landfill Sites in Tennessee, TDEC, Division of Solid Waste Management, April 27, 2008.

**Summary Tonnage by Destination, County of Overton, 2008**

Destination	Tons	Percentage (%)
Volunteer Landfill	10,907	100.0
<b>Total</b>	<b>10,907</b>	<b>100.0</b>

Overton County transfers solid waste generated from convenience center sites to the local Class I Landfill at the Volunteer Landfill. Reported figures from the TDEC SW County of APR FY 2008 shows 10,907 tons of solid waste generated.

National economic downturns have impeded the recycling for Overton County. The County Solid Waste Program currently has experienced a decline in recycling material prices over a short span of time, explaining why recyclers and haulers are sitting on materials instead of selling.

Recycling is a component of manufacturing; people are buying less and concerned more about the current state of the economy. The condition of the economy has affected all areas of the manufacturing sector, especially recycling materials. With this said, Overton County will continue to be aggressive in locating vendors willing to pay a fair and reasonable price for recyclable materials in the future.

**B. Provide a chart or other graphical representation showing public and private collection service provider area coverage within the county and municipalities. Include provider's**



name, area of service, population served by provider, frequency of collection, yearly tons collected, and the type of service provided.



**TABLE B Population Served for City and County Convenience Center Site, Provider, Service Area, Population Service, Tons Collected**

Year	Overton Co.	Livingston	Unincorporated		
2008	20,975	3,567	17,408		
Provider of Service	Service Area	Available Service for 2008 Population Total	Frequency of Service (Weekly, Bi-weekly, on call, etc.)	Estimated Annual Tons Collected	Type Service (Curbside, Convenience Center, Green Box) or Door to Door
	City and County-wide serving  Overton County Livingston Unincorporated		5 days per week and Once weekly for some	Transfer station collects 152 tons of garbage a day.  (County CCC Sites-Class III/IV)	CCC  and/or  Door to Door Services with subscription
<b>Private Haulers*</b>	County-wide	NA	Weekly	NA	Subscription Service

\*Several private haulers operate waste collection service for residents and businesses in Overton County. Information on customers and areas served and tonnages collected is not available and considered confidential by the private sector.

**SECTION 7:****SOLID WASTE MANAGEMENT INFRASTRUCTURE**

Complete the chart below and discuss unmet financial needs to maintain current level of service. Provide a cost summary for current year expenditures and projected increased costs for unmet needs.

future by amortizing annual costs.

Description	Present Need \$/year	Total Needs (Present + Unmet) \$/year
Salary and Benefits	70,984.00	70,984.00
Transportation/hauling		
Collection and Disposal Systems		
Equipment		
Sites		
Convenience Center	140,930.00	140,930.00
Transfer Station		
Recycling Center	42,700.00	42,700.00
MRF		
Landfills		
Site		
Operation		
Closure		
Post Closure Care	35,000.00	35,000.00
Administration (supplies, communication costs, etc.)	128,860	128,860
Education		
Public		
Continuing Ed.		
Capital Projects	142,836	142,836
Host agreement fee		
Tipping fees	205,000.00	205,000.00
Property taxes	267,860.00	267,860.00
Sales tax	450,447.00	450,447.00
Surcharges		
Disposal Fees	1,000.00	1,000.00
Collection charges		
Industrial or Commercial charges		
Residential charges		
Convenience Centers charges		
Transfer Station charges	883,311.00	883,311.00
Recyclable Sales	63,000.00	63,000.00
Other sources: (Grants, bonds, interest, sales, etc.)	11,800.00	11,800.00

OVERTON COUNTY			
Equipment	Operational Use	Estimated Cost (2007)	Potential Revenue Source
Roll-Off-Truck	Material containerization.	\$40,000	Grants/General Fund Appropriation
3 Billboards for Anti-Littering and Recycling	Material management.	\$15,000	Grants/General Fund Appropriation
3 Containers/Compactors	Material containerization.	\$15,500	Grants/General Fund Appropriation
Waste Transfer Station	Material Collection.	\$10,000	Grants/General Fund Appropriation
H.H.W.	Material Collection.	\$10,000	Grants/General Fund Appropriation
Waste Tire Collection Location	Material Collection.	\$6,000	Grants/General Fund Appropriation
Truck Weigh Scales / Software	Material Management.	\$10,000	Grants/General Fund Appropriation
Paint / Repair / Replace Collection Containers	Material containerization	\$12,000	Grants/General Fund Appropriation
3 Recycling Containers	Material containerization	\$17,700	Grants/General Fund Appropriation
Additional Convenience Center Sites	Material Collection.	\$11,000	Grants/General Fund Appropriation

This analysis does not include indirect or depreciation costs or future annual costs associated with additional employees, salary increases, facility operations, landfill monitoring costs, etc. Indirect costs are usually calculated based on the support services for solid waste management within local government departments, such as the offices of the executive, budget director, trustee, etc. Depreciation is a method of projecting and forecasting future budget planning for solid waste needs and developments of Overton County. Local governments should recognize annually, the cost of support services and depreciation of all assets until they are fully depreciated.

However, for purposes of this Needs Assessment, to project the future costs of equipment and facilities, future outlays of equipment and facility expansions to support potential program growth over the next five (5) years, will be calculated to anticipate expenditures of cash in the future by amortizing annual costs.

Overton County will evaluate alternative revenue sources, such as user fees and waste management services to meet the growing needs of residents and to adhere to additional state and federal regulations. Performing a full-cost accounting study, Overton County can:

- Determine the cost of solid waste management services;
- Adopt a more business-like approach to solid waste management;
- Improve methods of evaluating privatization initiatives;
- Determine an appropriate mix of solid waste management services for the future;
- Establish rates and user charges to fund services for the future.

In an effort to manage and reduce the amount and types of waste generated in an industrialized, “throw- away society,” local governments plan to develop programs and construct collection and disposal facilities incrementally over time. The annual budget and the 4-year re-election process limit long-term planning to construct facilities to grow into and not out of over a longer time period than public officials are willing to risk.

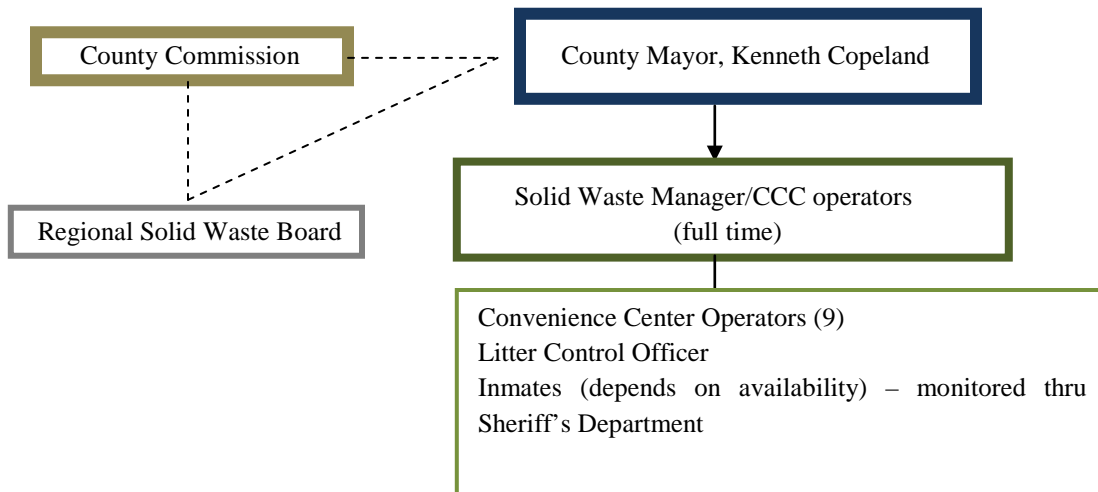
**SECTION 8:**

**PUBLIC PARTICIPATION**

*Provide organizational charts of each county and municipality’s solid waste program and staff arrangement. Identify needed positions, facilities, and equipment that a fully integrated solid waste system would have to provide at a full level of service. Provide a scale county level map indicating location of all facilities including convenience centers, transfer stations, recycling centers, waste tire drop-off sites, used oil collection sites, paint recycling centers, all landfills, etc. Identify any short comings in service and note what might be needed to fill this need.*

The Solid Waste Manager is responsible for all solid waste and recycling daily operations in the County and directly responsibility to the Overton County Executive. The Solid Waste Board, County Commission and the Overton County Executive evaluate program planning, budgeting and implementation. The County Litter Control Officer supervises inmates during daily operations at the Recycling Center and roadside litter pick-up.

**Regional Solid Waste Organizational Structure**



**CONVENIENCE CENTERS and HOURS OF OPERATION**

**Allons**

688 Old Celina Road  
 Allons, Tennessee 38541  
 931-823-8665  
 Hours of Operation  
 Tuesday 10:00 a.m. to 5:00 p.m.  
 Thursday 10:00 a.m. to 5:00 p.m.

Saturday 8:00 a.m. to 3:00 p.m.

This facility can receive household, metals, paper, plastic, auto fluid.

**Anderson**

1603 Cedar Chapel

Monterey, Tennessee 38574

931-445-3927

Hours of Operation

Wednesday 9:00 a.m. to 5:00 p.m.

Saturday 9:00 a.m. to 5:00 p.m.

This facility can receive metals, paper, auto fluids.

**Hanging Limb**

216 Floyd Padgett Lane

Crawford, Tennessee 38554

931-446-3495

Hours of Operation

Tuesday 9:00 a.m. to 5:00 p.m.

Wednesday 9:00 a.m. to 5:00 p.m.

Friday 9:00 a.m. to 5:00 p.m.

Saturday 9:00 a.m. to 5:00 p.m.

This facility can receive household trash, cardboard, scrap metal, aluminum, newspaper, used motor oil, and plastic 1 and 2.

**Hilham**

195 Fisk Cemetery Road

Hilham, Tennessee 38568

931.823.1270

Hours of Operation

Tuesday 9:00 a.m. to 5:30 p.m.

Friday 9:00 a.m. to 5:30 p.m.

Saturday 8:00 a.m. to 4:00 p.m.

This facility can receive household trash, cardboard, scrap metal, aluminum, newspaper and plastic 1 and 2.

**Independence**

1809 Willow Grove Highway

Allons, Tennessee 38541

Hours of Operation

Tuesday 9:00 a.m. to 5:30 p.m.  
Thursday 9:00 a.m. to 5:30 p.m.  
Saturday 8:00 to 4:00 p.m.

The facility can receive household trash, cardboard, scrap metal, aluminum, newspaper and plastic 1 and 2.

**Livingston**

245 Industrial Park Drive  
Livingston, Tennessee 38570  
931.823.8665

Hours of Operation

Monday thru Friday 8:00 a.m. to 4:30 p.m.  
Saturday 8:00 a.m. to 1:30 p.m.

This facility receives household trash, cardboard, scrap metal, aluminum, newspaper, plastic 1 and 2, brown and clear glass bottles, car batteries, used motor oil, used tires\* (fees may apply). This facility also accepts construction/demolition debris for a fee of \$40.00 per ton.

**Rickman**

3549 Rickman Road  
931.498.3942

Hours of Operation

Tuesday 9:00 a.m. to 5:30 p.m.  
Wednesday 8:00 a.m. to 12:00 p.m.  
Friday 9:00 a.m. to 5:30 p.m.  
Saturday 8:00 a.m. to 4:30 p.m.

This facility received household trash, cardboard, scrap metal, aluminum, newspaper, plastic 1 and 2 and used motor oil.

**Alpine**

Winston Lane  
Alpine, Tennessee 38543

Hours of Operation

Tuesday 9:00 a.m. to 5:00 p.m.  
Thursday 9:00 a.m. to 5:30 p.m.  
Saturday 9:00 a.m. to 5:00 p.m.

This facility receives household trash, cardboard, scrap metal, aluminum, newspaper, plastic 1 and 2.

**Hardy's Chapel**

115 Hardy's Chapel Road  
Cookeville, Tennessee 38506  
931.498.4737

Hours of Operation

Tuesday 9:00 a.m. to 5:00 p.m.  
Saturday 9:00 a.m. to 5:00 p.m.

This facility receives household trash, cardboard, scrap metal, aluminum, newspaper, plastic 1 and 2

**Roadside Dumps Reported.**

The roadside dump on Palenstine Road has illegally dumped tires and the county will apply for a waste tire grant this fall to assist with clean-up.

<b><u>Location</u></b>	<b>List of Materials that makeup these roadside dumps.</b>
Palenstine Road	Tires
Waterloo Road	Household Trash, Tires
Sunkcane Road	Household Trash, Tires
Columbia Hill Road	Household Trash, Tires
Turkeytown Road	Household Trash, Tires

**SECTION 9:**

*Identify all current revenue sources by county and municipality that are used for materials and solid waste management. Project future revenue needs from these categories and discuss how this need will be met in the future. Use example in Chart 7 as an example to present data.*

**Revenues**

Local Taxes	\$450,447.00
County Property Taxes	\$267,860.00
Tipping Fees	\$205,000.00
Sale of Recyclable Materials	\$ 63,000.00
Solid Waste Grants	<u>\$ 11,800.00</u>
	TOTAL \$998,107.00

The Solid Waste Program of Overton County developed a 10-Year Plan for short and long-term solid waste services, as required by The Solid Waste Management of 1991. The Table below summarizes the existing programs, the 5-Year Update Program Plan, and the Tennessee Solid Waste Management Plan as required by the Act of 1991.

**Equipment**

The table below provides a list of the potential equipment for continued and expanded operations of an integrated solid waste management program provided by Overton County for the Region over the next five (5) years. Equipment is not listed in priority of need. Equipment costs are estimates only and should only be considered a baseline for future planning.

**TABLE 9.1 Future Waste Management Equipment Needs**

OVERTON COUNTY			
Equipment	Operational Use	Estimated Cost (2007)	Potential Revenue Source
Roll-Off-Truck	Material containerization.	\$40,000	Grants/General Fund Appropriation
			Grants/General Fund

<b>3 Billboards for Anti-Littering and Recycling</b>	Material management.	\$15,000	Appropriation
<b>3 Containers/Compactors</b>	Material containerization.	\$15,500	Grants/General Fund Appropriation
<b>Waste Transfer Station</b>	Material Collection.	\$10,000	Grants/General Fund Appropriation
<b>H.H.W.</b>	Material Collection.	\$10,000	Grants/General Fund Appropriation
<b>Waste Tire Collection Location</b>	Material Collection.	\$6,000	Grants/General Fund Appropriation
<b>Truck Weigh Scales / Software</b>	Material Management.	\$10,000	Grants/General Fund Appropriation
<b>Paint / Repair / Replace Collection Containers</b>	Material containerization	\$12,000	Grants/General Fund Appropriation
<b>3 Recycling Containers</b>	Material containerization	\$17,700	Grants/General Fund Appropriation
<b>Additional Convenience Center Sites</b>	Material Collection.	\$11,000	Grants/General Fund Appropriation
<b>Total</b>		<b>\$147,200</b>	

### Facilities

Some examples of planned improvements and expansions to the solid waste management systems over the next (5) years include: Recycling Center asphalt paving, interior push-walls, glass cullet and material storage bays, building retrofits, indoor/outdoor security system.

Depending upon the future development of water and sewer services in the southern section of Overton County in the next five (5) years, there may be potential to construct convenience center sites.

A Multi-Purpose Waste Management Facility may be constructed within the next five (5) to service equipment and collection vehicles and provide storage for non-hazardous problem wastes, such as latex paint and electronic waste.

The table on the following page provides a minimum list of the facilities for planned constructed and expanded, in no particular order. Cost estimates are only to be used as a baseline for planning purposes.

**TABLE 9.2 Future Waste Management Facility Construction and Upgrades**

OVERTON COUNTY			
Facility	Facility Betterments	Estimated Cost (2008)	Potential Revenue Source
<b>Convenience Center Collection Site Development</b>			
<b>Planned Convenience Center Collection Site Construction</b>	Site preparation, paving, fencing, gates, attendant sundries, utilities,	\$50,000	Grants/General Fund Appropriation



	equipment pads, signage etc.		
<b>Recycling and Existing Convenience Center Sites</b>			
<b>Recycling and CCC Site Upgrades</b>	Asphalt paving, push-walls, cullet and storage bays, indoor/outdoor security system, building retrofits.	\$50,000	Grants/General Fund Appropriation
<b>Multi-Purpose Waste Management Facility: repairs/maintenance, problem waste storage, etc.</b>	Facility construction for waste management material handling: collection vehicles, heavy equipment, repair tools, repair parts inventory.	\$30,000	Grants/General Fund Appropriation
<b>Total</b>		<b>\$130,000</b>	

**TABLE 9.3 Planned Solid Waste Management System 2007 – 2012**

<b>Solid Waste Program</b>	<b>Existing Regional Solid Waste Programs</b>	<b>Future Regional Solid Waste Programs</b>	<b>Tennessee Mandated Plan</b>
<b>Residential Solid Waste Collection</b>	<p>Overton County provides residential collection of solid waste at eight (9) CCC sites.</p> <p>Private haulers provide collection/disposal services for local residents and businesses.</p>	<p>Continue County residential drop-off service.</p> <p>Maintain efficient collection equipment and facilities.</p> <p>Continue private hauling services.</p>	<p>County to provide CCCs for residents according to population or service area, maintain required design and operational standards.</p>
<b>Recycling</b>	<p>Cardboard, newsprint, aluminum and steel cans, mixed paper, magazines, phonebooks, electronics, latex paint, used oil, scrap metal, plastic drink containers, waste tires, glass bottles, waste tires and batteries.</p> <p>As a means of waste diversion, Volunteer Class I Landfill waste collected separately at each center and transported to the Volunteer Landfill Class I for disposal.</p>	<p>Increase business and school recyclables collection.</p> <p>Expand types and amounts of materials collected at drop-off sites.</p> <p>Expand Recycling operations to collect, manage, process additional materials types and amounts.</p> <p>Continue material processing maximizing available market prices.</p>	<p>County to provide eight (9) CCCs and one (1) transfer station</p>

<b>Waste Reduction</b>	<ul style="list-style-type: none"> <li>Overton County collects recyclables from public and private sector, tracks business waste diversion activities.</li> <li>As a means of waste diversion, Class III waste collected separately at each center and transported to the County Class III Landfill for disposal.</li> </ul>	Continue collecting recyclables from public and private sector, tracking business waste diversion activities to achieve 25% Regional Waste Reduction Goal. Continue waste disposal of at Volunteer Landfill.	Continue achieving 25% waste reduction goal.
<b>Problem Waste Management</b>	<p>Overton County provides collection at Convenience Center Sites for used oil and scrap metal.</p> <p>The County Recycling Center collects used oil, used oil filters, automobile fluids, e-waste, latex paint, waste tires.</p> <p>HHW TDEC mobile collection events to be scheduled.</p>	<p>Continue problem waste collection and expand service as needed.</p> <p>HHW TDEC mobile collection events to be scheduled.</p>	County has restrictions related to disposal of tires, paint cans, refrigerators, freezer, fluids, and batteries. County to provide HHW collection events, when state scheduling is provided.
<b>Public Education &amp; Information</b>	Overton County provides education activities targeting government, business, media, public, schools, and civic groups.	Increase educational activities to target government, business, media, public, schools, and civic groups.	Region to develop and implement solid waste management action plan for adults and children.
<b>Disposal</b>	Overton County transports waste collected at County convenience centers to the Volunteer Landfill.	Continue to competitively negotiate long-term disposal contract.	Region to assure 10-year disposal capacity.
<b>Planning</b>	Monthly meetings with Regional Planning Board, County Mayor, Sanitation Department and County Commission to maintain plan updates, annual reports, etc.	Continue monthly meetings, and reporting requirements. Forge partnerships between government, business, media, civic, and public.	Region to provide Annual Progress Reports, 5-Year Plan

			Updates, other reporting requirements as needed.
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**Sustainability of the Solid Waste Plan must include, at the minimum:**

- Regional Planning Board Involvement;
- Expansions and Upgrades of Residential Collection Services and Facilities;
- Pursuing all Grant Funds for Equipment and Facilities;
- Utilize Technical Assistance Providers;
- Research Technologies and Other Program Options;
- Promote Other Waste Reduction Efforts;
- Expand Recycling Material Types and Amounts Collected;
- Garner Competitive Market Prices for Recyclable Materials;
- Provide Employee Work and Equipment Safety Training;
- Maintain Flexible Problem Waste Collection;
- Continue Aggressive Public Outreach, Education Program; and
- Expand Business and School Recycling Collection Program.

This list is neither conclusive nor listed in priority. Sustainability will depend on public, governmental and business sector response to produce desired outcomes for improving the infrastructure, as well as the health and welfare of all citizens in Overton County, including the city of Livingston and unincorporated communities. The list is meant to be a “work in progress” that is sensitive to and flexible for an unpredictable future of local needs, changing environmental regulations, the means to continue encouraging enthusiastic efforts of the Sanitation Department staff, and expand local participation when possible. A partnership between the County and City government officials is necessary to share the investment of a comprehensive community waste reduction program.

**SECTION 10:**

*Describe current attitudes of the region and its citizens towards recycling, waste diversion, and waste disposal in general. Where recycling is provided, discuss participation within the region. Indicate current and ongoing education measures to curb apathy or negative attitude towards waste reduction. Are additional measures needed to change citizen’s behaviors? If so, what specific behaviors need to be targeted and by what means?*

**Current and On-Going Education Measures to Increase Public Participation**

The following table below summarizes environmental educational activities in Overton County.

<b>Program Name</b>	<b>Sponsor</b>	<b>Effectiveness</b>	<b>Program Type</b>	<b>Target Group</b>	<b># Served</b>
School Program Curriculum Teacher Training	Overton County Solid Waste Dept.	Positive	Classroom	Children/Teachers	60
Teacher Training is provided each year during the school in-service training regularly provided by county educators. Environmental and solid waste curriculum is presented to those participants in the training. Additional copies of the curriculum are provided to each school principal and library.					
Elementary School Can Collection	Overton County Solid Waste Dept.	Positive	Classroom	Children/Teachers	200
Children collect aluminum cans for a contest. The class with the most cans is awarded an amount of money to use as they wish, such as a class party, purchase additional materials for the class, etc.					
Business Leadership Overton	Overton County Chamber of Commerce	Positive	Tour, Community Outreach	Government, Business, Media, Civic	50
The Chamber of Commerce provides an annual workshop inviting all county businesses, governmental officials, media and any other interested groups. The workshop agenda provides training in various topics such as growth management, environmental protection, business infrastructure, and other county issues.					
School Litter Pick-up	Overton County Schools	Positive	Classroom, Community Outreach	Children, Media, Civic, Government	400
Children learn about the proper containerization of garbage. Participants are provided gloves and bags and encouraged to pick-up paper, plastic, cans and other objects which will not pose a risk to them. Larger objects are collected by school personnel.					
HHW Event	Drop-off event, brochures, media coverage, articles	Positive	Advertisement, Public, Community Outreach	Government, Public, Media, Civic	100
Event provided by TDEC and sponsored by the County for the public to bring household hazardous waste. Information is regularly posted in the local papers to encourage the public to					

use alternative cleaning products, etc. and to store HHW until the day of the event.					
Overton County Fair Exhibit	Overton County Solid Waste Dept.	Positive	Public, Advertisement, Community Outreach	Public, Business, Civic	County-wide
During the fair, the County provides several exhibits, sponsored by the Solid Waste Department to properly dispose of paper and cans in recyclable bins and all other waste in the proper containers.					
Environmental Magician	Overton County Schools	Positive	Classroom, Community Outreach	Children, Civic, Public, Business, Government	500
A talented local citizen provides an environmental awareness program for any teachers or civic groups that request.					

Great American Clean-up Program (This is a Overton County Clean-up Promotion for Overton County residents to participate in local and neighborhood road-side and property clean-up activities); School education program (K-5) (Recycling Education in the schools); School Program Curriculum Presentations (This program provided teacher training each year during school-in-service training.

**SECTION 11:**

*Discuss this region’s plan for managing their solid waste management system for the next five (5) years. Identify any deficiencies and suggest recommendations to eliminate deficiencies and provide sustainability of the system for the next five (5) years. Show how the region’s plan supports the Statewide Solid Waste Management Plan.*

The State requires that a county provide a minimum level of service of there if less than 90 percent collection coverage provided by the private and public sector. This involves the establishment of convenience centers that are adequate to serve all residents.

The County continues to encourage local businesses to participate in waste reduction activities. Several workshops and presentations are scheduled annually to promote in-house waste reduction, environmental stewardship and support of the County recycling program. Additionally, some businesses are improving their operational costs through recycling income.

Through implementation of this comprehensive, updated solid waste management plan, Overton County will continue to provide for the efficient and environmentally sound management of solid waste, including waste disposal and waste reduction, for the next five (5) years.

**Future Waste Management Equipment Needs**

OVERTON COUNTY			
Equipment	Operational Use	Estimated Cost (2007)	Potential Revenue

			<b>Source</b>
<b>Haul Truck for Recycling Boxes</b>	Material containerization.	\$40,000	Grants/General Fund Appropriation
<b>Horizontal Baler</b>	Material management.	\$15,000	Grants/General Fund Appropriation
<b>Knuckle Boom Truck</b>	Material containerization.	\$15,500	Grants/General Fund Appropriation
<b>H.H.W.</b>	Material Collection.	\$10,000	Grants/General Fund Appropriation
<b>Waste Tire Collection Location</b>	Material Collection.	\$6,000	Grants/General Fund Appropriation
<b>Truck Weigh Scales / Software</b>	Material Management.	\$10,000	Grants/General Fund Appropriation
<b>Paint / Repair / Replace Collection Containers</b>	Material containerization	\$12,000	Grants/General Fund Appropriation
<b>Convenience Center Site Upgrades</b>	Material Collection.	\$11,000	Grants/General Fund Appropriation
<b>Total</b>		<b>\$119,500</b>	

### Future Waste Management Facility Construction and Upgrades

<b>OVERTON COUNTY</b>			
Facility	Facility Betterments	Estimated Cost (2007)	Potential Revenue Source
<b>Convenience Center Collection Site Development</b>			
<b>Planned Convenience Center Collection Site Construction</b>	Site preparation, paving, fencing, gates, attendant sundries, utilities, equipment pads, signage etc.	\$50,000	Grants/General Fund Appropriation
<b>Recycling and Existing Convenience Center Sites</b>			
<b>Recycling and CCC Site Upgrades</b>	Asphalt paving, push-walls, cullet and storage bays, indoor/outdoor security system, building retrofits.	\$50,000	Grants/General Fund Appropriation
<b>Multi-Purpose Waste Management Facility: repairs/maintenance, problem waste storage, etc.</b>	Facility construction for waste management material handling: collection vehicles, heavy equipment, repair tools, repair parts inventory.	\$30,000	Grants/General Fund Appropriation
<b>Total</b>		<b>\$130,000</b>	

### Planned Solid Waste Management System 2007 – 2013

Solid Waste	Existing Regional Solid Waste Programs	Future Regional Solid Waste Programs	Tennessee
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Program			Mandated Plan
<b>Residential Solid Waste Collection</b>	<p>Overton County provides residential collection of solid waste at nine (9) CCC sites.</p> <p>Private haulers provide collection/disposal services for local residents and businesses.</p>	<p>Continue County residential drop-off service.</p> <p>Maintain efficient collection equipment and facilities.</p> <p>Continue private hauling services.</p>	<p>County to provide CCCs for residents according to population or service area, maintain required design and operational standards.</p>
<b>Recycling</b>	<p>Cardboard, newsprint, aluminum and steel cans, mixed paper, magazines, phonebooks, electronics, latex paint, used oil, scrap metal, plastic drink containers, waste tires, glass bottles, waste tires and batteries.</p> <p>As a means of waste diversion, Class III/IV waste collected separately at each center and transported to the County Class III/ Landfill for disposal.</p>	<p>Increase business and school recyclables collection.</p> <p>Expand types and amounts of materials collected at drop-off sites.</p> <p>Expand Recycling operations to collect, manage, process additional materials types and amounts.</p> <p>Continue material processing maximizing available market prices.</p>	<p>County to provide eight (8) CCCs and one (1) transfer station</p>
<b>Waste Reduction</b>	<p>Overton County collects recyclables from public and private sector, tracks business waste diversion activities.</p> <p>As a means of waste diversion, Class III waste collected separately at each center and transported to the County Class III Landfill for disposal.</p> <p>Exceeded 25% Regional Waste Reduction Goal.</p>	<p>Continue collecting recyclables from public and private sector, tracking business waste diversion activities to achieve 25% Regional Waste Reduction Goal.</p>	<p>Continue achieving 25% waste reduction goal.</p>
<b>Problem Waste Management</b>	<p>Overton County provides collection at Convenience Center Sites for used oil and scrap metal.</p> <p>The County Recycling Center collects used oil, used oil filters, automobile fluids, e-waste, latex paint, waste tires.</p> <p>HHW TDEC mobile collection events to be scheduled.</p>	<p>Continue problem waste collection and expand service as needed.</p> <p>HHW TDEC mobile collection events to be scheduled.</p>	<p>County has restrictions related to disposal of tires, paint cans, refrigerators, freezer, fluids, and batteries.</p> <p>County to provide HHW collection events, when state scheduling is provided.</p>