

RECYCLING

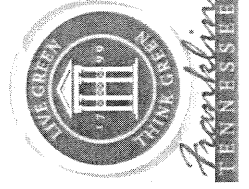
Presented by:

Becky Caldwell

Solid Waste Director

January 26, 2010

ITEM #10
WRK S 01/26/10

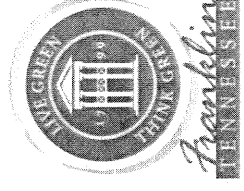


CURRENT RECYCLING EFFORTS

2007: Started recycling plastic and aluminum from City departments

May 2008: Introduced our public education booth at special events to promote recycling

June 2008: Began enforcement of small yard waste collected curbside only when biodegradable paper bags are used; bags of yard waste diverted from landfill to Lula Lane compost site

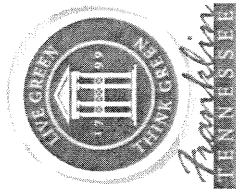


August 2008: Started diverting metals collected curbside to
B Miller Recycling for a rebate

November 2009: Introduced Buck-a-Bag (pay-as-you-throw) to
encourage recycling

November 2009: Introduced BOPAE drop-off site at our
Century Court Transfer Station

We continue to grind brush collected
curbside into wood
chips for use at our Parks, private
businesses, walking trails,
cover at the Williamson County Landfill,
boiler fuel, etc...

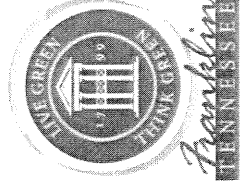


SUSTAINABLE COMMUNITY ACTION PLAN 2009

“Top 10” Sustainability Needs

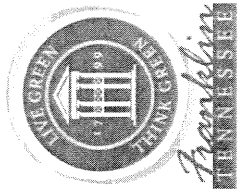
No. 2 Increase the level of waste recycling

**“Top 10” Sustainability Practices
No. 1 Recycling Program**



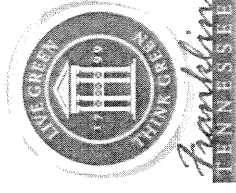
RECYCLING OPTIONS:

1. PRIVATE SERVICE PROVISION ONLY
2. RETAIN CURRENT SERVICE MODEL
3. BLUE BAG CURBSIDE PROGRAM
4. AUTOMATED CURBSIDE PROGRAM



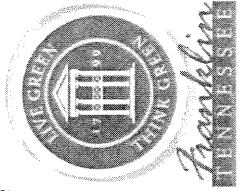
OPTION 1: PRIVATE SERVICE PROVISION ONLY

- Leaves service to the private sector
- We lose control of the level of service provided to our residents
- We depend on private companies to “do the right thing” when considering final disposal of commodities
- We have no control over reporting for State required information regarding diversion
- We know this option may require our service fees to continually rise with our recent landfill tip fee increase
 - Long-term this could be expensive if the State requires a percentage of diversion we cannot meet



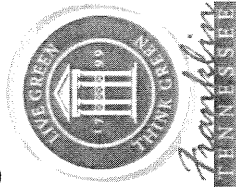
OPTION 2: RETAIN CURRENT SERVICE MODEL

- Most resembles Action 1 from the Waste Reduction Committee recommendations to the Sustainability Task Force
- Collection method: Drop-off Sites
- Williamson County Solid Waste provides the service – no concern about responsible disposal of commodities
- Longevity of the existing sites is directly dependent on continued support from the owner(s) of the shopping centers
(i.e. Independence Square & Williamson Square)
- The cost of this option is directly related to land availability and acquisition, plus the specific needs to develop the property into a contained, but aesthetically pleasing, site



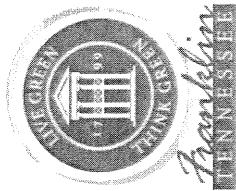
OPTION 3: BLUE BAG CURBSIDE PROGRAM

- Blue bags purchased by residents, at local businesses, allow customers the choice to participate
- Sumrall Recycling, under contract with Williamson County, is agreeable to accept our blue bags and separate the contents
- Providing weekly collection allows us to match our level of service for other solid waste services
- Residents can use an unlimited number of blue bags for their recyclable items
- We continue to directly control our residential waste stream
 - We are positioned to verify appropriate handling of recyclables
 - We have direct access to records summarizing our diversion efforts
 - We avoid costs associated with landfill tip fees and hauling costs



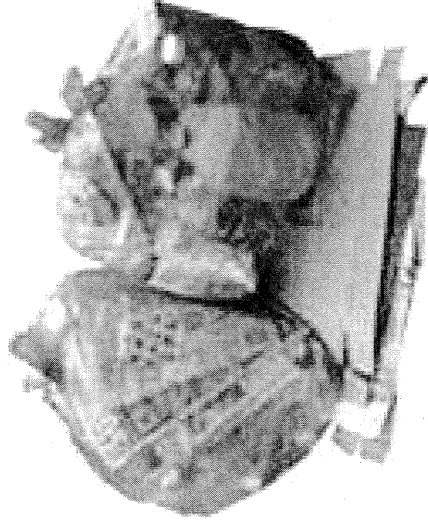
OPTION 4: BLUE ROLLOUT CONTAINER CURBSIDE PROGRAM

- Blue rollout containers purchased by residents, through the City, allow customers the choice to participate
- Providing weekly collection allows us to match our level of service for other solid waste services
- We continue to directly control our residential waste stream
- We are positioned to verify appropriate handling of recyclables
- We have direct access to records summarizing our diversion efforts
 - We avoid costs associated with landfill tip fees and hauling costs
 - May require additional research to find a processing facility for sorting



RECOMMENDATION

ADOPT OPTION 3: BLUE BAG CURBSIDE RECYCLING PROGRAM



HOW CAN OPTION 3 WORK?

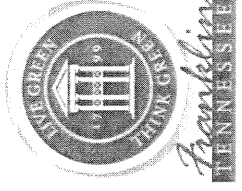
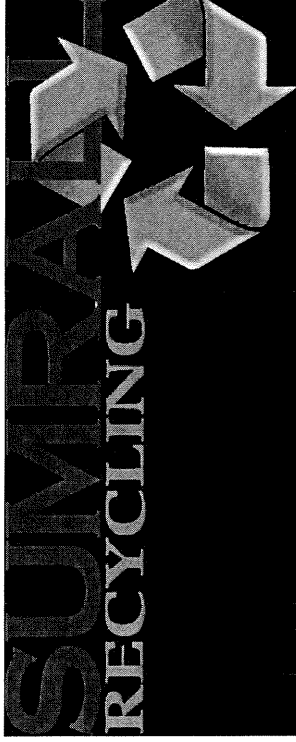
WHO: CITY SOLID WASTE TEAM

WHAT: PLASTICS (1-7, NO FOAM), ALUMINUM, STEEL, MIXED PAPER, OFFICE PAPER, CARDBOARD, NO GLASS

WHEN: WEEKLY SERVICE

WHERE: FINAL DISPOSAL AT WILLIAMSON COUNTY RECYCLING FACILITY ON CENTURY COURT

RECYCLABLES HANDLED BY SUMRALL RECYCLING



STEPS TO BLUE BAG CURBSIDE RECYCLING:

STEP 1: Resident purchases blue, transparent 33-gallon or smaller bags at local retailers

STEP 2: Resident prepares accepted recyclables

STEP 3: Resident places recyclables into blue, transparent bag

STEP 4: Resident ties the top on the blue bag and places it curbside next to their black rollout container on regular collection day (no limit on number of bags)

STEP 5: City Solid Waste teams collect blue bags from curbside

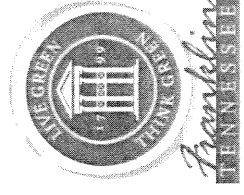
STEP 6: City Solid Waste teams deliver recyclables to Williamson County Recycling facility, operated by Sumrall Recycling, for processing and separation

HOW MUCH WILL IT COST?

**Initial Equipment Needs – 3 Mini-Packer Trucks
@ \$80,000 per truck – A lease option could be
used during the pilot program**

Annual Costs:

Equipment Depreciation (3 trucks)	\$30,000.00 (based on 8-year life)
Fleet Cost	\$92,789.28 (based on KB mileage)
Labor (3 positions – existing staff could be used)	<u>\$158,086.65</u> (includes benefits)
	\$280,875.93



HOW WILL WE PAY FOR IT?

AVOIDED COSTS:

Assuming 15% of 22,246 tons diverted (3,336.90 tons):

166.85 loads avoided (@\$91.98 per load labor cost) \$ 15,346.86

500.55 hours avoided (average 3 hours round trip)

18,019.80 miles avoided (108 miles round trip @ \$1.05/mile) \$ 18,920.79

Tipping Fees Avoided (3,336.9 tons @ \$25/ton) \$ 83,422.50

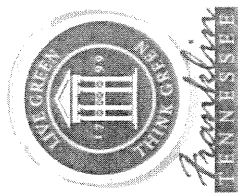
Total Estimated Avoided Annual Costs = \$117,690.15

Net Annual Cost \$163,185.78



ADDITIONAL IDEAS FOR FUNDING:

- * Lease trucks the first year to gauge diversion**
- * Ask for help from the public in diverting waste from the landfill to increase avoided costs**
- * Research additional grant opportunities for equipment purchases**
- * Re-direct existing position(s) to reduce new positions.**



IMPLEMENTATION:

February 2010 – BOMA decides to approve implementation of Option 3: Curbside Blue Bag Recycling Program

Contact local vendors to communicate the need for residents

to have access to blue recycling bags on July 1

Begin process to lease needed collection trucks

Begin public education

March 2010 – Continue public education

April 2010 – Begin process to hire three (3) Solid Waste Driver/Operators

May – June 2010 –

Take possession of collection trucks

Hire and train new personnel

Continue public education

July 2010 –

Collect the first blue bag of recyclables