

2014 Knox County Regional Solid Waste Plan Reporting 2013 Waste and Recycling Data

Purpose of Document

This document is an update to the Regional Solid Waste Plan and a progress report for the implementation of past plans. Waste and recycling data conveyed in this document are summaries of the estimates of waste and recycling activity entered into the Re-Trac system as required by the Tennessee Department of Environment and Conservation (TDEC). Great efforts are made to capture all available waste and recycling data but actual totals may differ from estimates entered into Re-Trac. The data reported electronically through the Re-Trac system may be adjusted by TDEC officials during their review and acceptance process.

The Board Chair will have the opportunity to verify the data and narrative sections in the Re-Trac system prior to signoff. Once accepted by a vote of the Board, and the Board Chair signoff is completed through the Re-Trac system, this document shall serve as an updated Regional Solid Waste Plan. The plan will be used as a reference document for decisions by the Regional Solid Waste Board.

For questions about this document or solid waste assistance within Knox County contact Knox County Solid Waste at 865-215-5865 or send an email to solidwaste@knoxcounty.org.

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III. Contact Information

Regional Solid Waste Board		Title	Jurisdiction	Address	Zip Code
Dirk Pohlmann	Chairperson	Knox County	321 Big Tree Drive	37934	
Mark Donaldson	Member	Knox County	400 Main Street, Suite 403	37902	
Kim Davis	Member	Knox County	226 W. Glenwood Ave	37917	
Catherine Wilt	Member	Knox County	311 UT Conference Center	37996	
Grant Barton	Member	City of Knoxville	205 West Baxter Avenue	37917	
Planning Region Report Author		Title	Organization	Address	Zip Code
Drew Thurman	Compliance Manager	Knox County Government	205 West Baxter Avenue	37917	
County Contacts		Title	Organization	Address	Zip Code
Tim Burchett	Mayor	Knox County Government	400 Main Street, Suite 615	37902	
Tom Salter	Solid Waste Director	Knox County Government	205 West Baxter Avenue	37917	
Zachary Johnson	Recycling Coordinator	Knox County Government	205 West Baxter Avenue	37917	
Other Key Contacts		Title	Organization	Address	Zip Code
David Brace	Public Service Director	City of Knoxville	400 Main Street, Suite 467	37902	
John Homa	Manager, Solid Waste	City of Knoxville	400 Main Street, Suite 470	37902	
Cassie Garner	Public Service Coordinator	City of Knoxville	400 Main Street, Suite 470	37902	
Edythe McNabb	Advisory Member	At Large	205 West Baxter Avenue	37917	

IV. Collection Systems & Diversion Activities

Did your local government have any household hazardous waste events?

No.

Comment on any disaster related solid waste activities that may have influenced diversion efforts with your local government.

There were no significant disaster related solid waste activities that influenced diversion efforts in the region.

Describe source reduction and reuse activities by public or private entities by jurisdiction.

Municipalities in the Knox County Region continue to consult with interested industries and businesses on ways to reduce waste at their sources.

List any restrictions the local government or region places on collected wastes (Examples: no cardboard allowed in MSW compactors, additional container charges, etc.)

There are several restrictions placed on waste collected at County Centers. Individuals are subject to daily limits in volume and size (one pickup truck load, bulky items must be able to fit into the compactor box). Household Hazardous Waste Materials are diverted to the Household Hazardous Waste Facility (HHW). Signage directs users to put recyclables into other containers rather than the Municipal Solid Waste (MSW) or Construction and Demolition (C/D) bulky boxes.

City of Knoxville curbside trash pickup limits bulky waste to 5 items per pickup day and up to (4) four 32-gallon trash cans per pickup day. Household Hazardous Waste Materials are diverted to the Household Hazardous Waste Facility (HHW). The Knox County Region has a permanent HHW collection facility. Businesses are not allowed to use the HHW facility for anything other than computer system recycling but they are subject to fees for computer recycling.

The HHW facility has different limits for different materials. Limits are generous. The HHW facility does not accept HHW from outside the Knox County Region. There are restrictions for items such as paint and other liquids. HHW will only accept (20) twenty gallons per day. Large televisions (over 27 inches) and items containing refrigerant are banned at all County Centers along with bans placed on paint cans filled with liquid paint.

Materials such as brick, block, gravel, dirt, rock, sand, concrete, and cement are normally directed away from municipal and county facilities to a landfill because they damage the equipment.

Centers separate metal food and beverage cans from scrap metal. Some special wastes like old mercury containing items such as thermometers or compact fluorescent bulbs are also accepted. Restricted items are directed to alternate collection sites like the Household Hazardous Waste Facility or other public and private collection programs.

Recycling and Waste Drop-off Centers: Locations and Hours of Operation:

Knox County Convenience Centers	Hours	Address	City	Zip code	Permit#	Phone#
Carter	M-F 8am-6pm; Sat 7am-3pm	8815 Asheville Highway	Knoxville	37924	CCC470000027	865-215-5865
Dutchtown	M-F 8am-6pm; Sat 7am-3pm	10618 Dutchtown Road	Knoxville	37932	CCC470000022	865-215-5865
Halls	M-F 8am-6pm; Sat 7am-3pm	3608 Neal Drive	Knoxville	37918	CCC470000483	865-215-5865
John Sevier	M-F 8am-6pm; Sat 7am-3pm	1810 John Sevier Highway	Knoxville	37920	CCC470000449	865-215-5865
Karns	M-F 8am-6pm; Sat 7am-3pm	6818 Oak Ridge Highway	Knoxville	37931	CCC470000023	865-215-5865
Powell	M-F 8am-6pm; Sat 7am-3pm	7311 Morton View Lane	Knoxville	37849	CCC470000024	865-215-5865
Tazewell/Gibbs	M-F 8am-6pm; Sat 7am-3pm	7201 Tazewell Pike	Knoxville	37721	CCC470000026	865-215-5865

Knox County Convenience Centers	Metals	Paper	Glass	Batteries	Plastic	Textiles	Pallets	Tires	Used Oil	Antifreeze	E-Scrap	Paint	Other
Carter Convenience Center	yes	yes	yes	yes	yes	no	no	no	yes	yes	no	no	yes
Dutchtown Convenience Center	yes	yes	yes	yes	yes	yes	no	yes	yes	yes	yes	no	yes
Halls Convenience Center	yes	yes	yes	yes	yes	yes	yes -fee	yes	yes	yes	yes	no	yes
John Sevier Convenience Center	yes	yes	yes	yes	yes	yes	no	yes	yes	yes	yes	no	yes
Karns Convenience Center	yes	yes	no	yes	yes	no	no	yes	yes	yes	no	no	yes
Powell Convenience Center	yes	yes	yes	yes	yes	no	no	yes	yes	yes	no	no	yes
Tazewell/Gibbs Convenience Center	yes	yes	yes	yes	yes	no	no	yes	yes	yes	no	no	yes

Please identify ANY changes that occurred to your convenience center(s)?

There were no significant changes to Knox County Convenience Centers in 2013, however, the Forks of the River Convenience Center is underutilized and will close in early 2014 in order to offset the planned expansions of the Karns and Carter Centers. The Carter Convenience Center will not be expanded until after the planned Karns relocation and expansion is complete. Equipment from Forks will be moved to other busier higher utilized centers in order to handle the increased demand at those locations.

- 2.3 **Calculated number of County Convenience Centers required by State of Tennessee.**
- 7 **Total number of County Convenience Centers present in County.**
- 4.7 **Difference.**

If you have fewer convenience centers in the county than are required, what steps will be taken to provide collection assurance?

Not applicable.

Does your county have any green boxes?

No.

Transfer Stations

Does your local government have any transfer stations?

No.

Transfer Stations in Knox County

Transfer Station	Address	City	Zip Code	Permit ID	Phone #
City of Knoxville Transfer Station	1033 Elm Street	Knoxville	37917	SWP470000069	865-215-6700
Knoxville Transfer Station	1300 Prosser Road	Knoxville	37914	TRF470001050	865-546-1125
Medical Waste of America, LLC	5102 Middlebrook Pike	Knoxville	37921	TRF470001441	865-558-3103
Waste Management - Heiskell Facility	9504 Diggs Gap Road	Heiskell	37754	TRF470001442	865-525-0529

Does your county have any recycling drop off locations not associated with convenience centers?

Yes.

City of Knoxville -Recycling ONLY Centers	Hours	Address	City	Zip code	Permit#	Phone#
Cedar Bluff City Recycling Center	open 24 hours, 7 days a week	341 Parkvillage Road	Knoxville	37923	na	865-215-4311
Chilhowee Park City Recycling Center	open 24 hours, 7 days a week	210 Alice Street	Knoxville	37914	na	865-215-4311
Downtown City Recycling Center	open 24 hours, 7 days a week	227 Willow Avenue	Knoxville	37915	na	865-215-4311
Kroger @ I-640 Plaza City Recycling Center	open 24 hours, 7 days a week	4440 Western Ave.	Knoxville	37921	na	865-215-4311
W. Moody Ave. City Recycling Center	open 24 hours, 7 days a week	225 W. Moody Avenue	Knoxville	37920	na	865-215-4311

City of Knoxville Recycling Centers	Metals	Paper	Glass	Batteries	Plastic	Textiles	Pallets	Tires	Used Oil	Antifreeze	E-Scrap	Paint	Other
Cedar Bluff City Recycling Center	yes	yes	yes	yes	yes	yes	no	no	no	no	yes	no	yes
Chilhowee Park City Recycling Center	yes	yes	yes	yes	yes	yes	no	no	no	no	yes	no	yes
Downtown City Recycling Center	yes	yes	yes	yes	yes	yes	no	no	no	no	yes	no	yes
Kroger @ I-640 Plaza City Recycling Center	yes	yes	yes	yes	yes	yes	no	no	no	no	yes	no	yes
W. Moody Ave. City Recycling Center	yes	yes	yes	yes	yes	yes	no	no	no	no	yes	no	yes

Privately Owned/Operated	Hours	Address	City	Zip code	Permit#	Phone#
FLOWR Owned West Knox County	open 24 hours, 7 days a week	10772 Kingston Pike	Knoxville	37922	na	865-740-5407
Goodwill Owned Bearden	open 24 hours, 7 days a week	4501 Kingston Pike	Knoxville	37919	na	865-588-8567
Goodwill Owned Pleasant Ridge	open 24 hours, 7 days a week	5412 Pleasant Ridge Rd	Knoxville	37912	na	865-588-8567

Restricted items are directed to alternate collection sites like the Household Hazardous Waste Facility or other public and private collection programs.

Does your county Utilize a Pay As You Throw System

No.

List the locations of largest five roadside dumps, types of materials that make up these roadside dumps, and the Tons associated with the dumps.

Location	Types of Materials	Tons
Dailey Street at Grave	Litter, tires, furniture, MSW, bulky items, etc.	20
South Chestnut Street at Biddle	Litter, tires, furniture, MSW, bulky items, etc.	12
John Sevier Highway	Litter, tires, furniture, MSW, bulky items, etc.	10
Pequod Street	Litter, tires, furniture, MSW, bulky items, etc.	10
Maynardville Highway	Litter, tires, furniture, MSW, bulky items, etc.	7

Does your county have a Higher Level of Service-Alternative?

Yes

Jurisdiction	Public Program Percentage of Coverage Within the Jurisdiction	Publicly Contracted Programs Percentage Coverage within the Jurisdiction	Privately contracted programs percentage coverage within the jurisdiction	Total Percentage of Each Category of Service for the Jurisdiction
City of Knoxville -Residents	0%	100%	0%	100

Does your county have any curbside recycling programs?

Yes

Jurisdiction	Participation Rate	Check All Materials Collected in Program	Is This Program Separated or Co-mingled
City of Knoxville Curbside Program -Residents	30%	Fiber/Paper; Glass; Plastic; Metals; Other	Co-mingled
Private Subscription Services (WC, WM, KRC, et cetera)	6%	Fiber/Paper; Glass; Plastic; Metals; Other	Co-mingled

Provide the Name and Physical Street Address of the Facility(s) where your recyclables (paper, plastic, glass and metal) are taken, sorted, and prepared for market, after they are collected at your convenience centers, through your curbside program, or other collection points.

Facility	Address	City	Zip Code	Material	Organization
Batteries Plus	222 North Peters Road	Knoxville	37923	batteries	City
Battery Services Inc.	233 East Woodland Avenue	Knoxville	37917	batteries	County
Blue Rhino	pickup	Knoxville	37917	propane tanks	Both
Clean Energy Biofuels	117 S. Gay Street	Knoxville	37902	cooking oil	County
Creative Recycling	8108 Krauss Blvd #110	Tampa	33619	e-waste	City
Enterprise Waste Oil Co. Inc.	5201 Middlebrook Pike	Knoxville	37921	auto oil	City
Environmental Enterprises	4650 Spring Grove Avenue	Cincinnati	45232	hazardous waste	City
FCC Environmental	2115 Speedrail Court	Concord	28025	auto oil	County
Goodwill Industries of Knoxville	5307 Kingston Pike	Knoxville	37919	textiles	Both
Knoxville Recycling Coalition	317 N. Gay Street	Knoxville	37917	mixed	Both
Liberty Tires (legacy MTR)	1700 Transport Way	Knoxville	37914	tires	Both
PSC Metals	5205 N National Drive	Knoxville	37914	metal	Both
Right Way Recycling	3700 Shotsman Lane	Knoxville	37918	metal	City
Rock Tenn Recycling	1323 Proctor Street, Knoxville	Knoxville	37921	mixed	Both
Spectra	2824 Hoitt Ave	Knoxville	37917	mixed	County
Tennessee American Recycling	200 W. Springdale Avenue	Knoxville	37917	mixed	County

V. Solid Waste Planning and Implementations

Are there any publicly owned landfills in the region?

No.

Equipment and Facilities

Project All New Recycling & Solid Waste Equipment Needs for the Next 3 Years.				
Equipment or Facility	Purpose (Disposal or Recycling/Waste Reduction)	Name of Equipment or Facility	Brief Description of Equipment/Facility	Brief Description of Funding Source
equipment	recycling	recycling trailer	trailer for collecting event recycling	City budgetary requests
equipment	disposal	replacement compactors	replacement Compactors for City Transfer Station	City budgetary requests
equipment	disposal	curbside trash carts/totes	City wishes to provide unified garbage containers to every resident receiving curbside trash pickup	City budgetary requests
equipment	recycling	curbside recycling carts/totes	City wishes to provide unified recycling containers to every resident receiving curbside recycling pickup	City budgetary requests
facility	both	new Karns Convenience Center	relocation, expansion, or renovation of Karns Convenience Center	County budgetary requests
facility	both	new Carter Convenience Center	relocation, expansion, or renovation of Carter Convenience Center	County budgetary requests
equipment	recycling	recycling boxes (roll-off)	roll-off recycling boxes for Convenience Centers and events	County budgetary requests
equipment	disposal	waste boxes (roll-off)	roll-off recycling trash boxes for Convenience Centers and events	County budgetary requests
equipment	recycling	recycling compactors and swap boxes	recycling compactors and swap boxes for Convenience Centers	County budgetary requests
equipment	disposal	trash compactors and swap boxes	waste compactors and swap boxes for Convenience Centers	County budgetary requests
equipment	recycling	roll-off trucks	roll-off trucks for Convenience Centers and events	County budgetary requests
equipment	both	fleet vehicles	replacement vehicles for an aging fleet	County budgetary requests
facility	recycling	attended donation center	additional attended donation center at Knox County Convenience Centers	County budgetary requests

Future Marketing and Educational Initiatives Marketing

County marketing and educational activities will primarily encourage people to recycle more at County Centers. Target audiences will be educated about the savings to the taxpayer from recycling versus throwing waste into the trash. Increased emphasis will be placed on increased recycling and diversion and its relation to green industry and job creation.

City and County will target the general public to promote solid waste & recycling activities, events, and special projects. Due to changing media habits and budgetary limitations much of the marketing is achieved through social networking, earned media. Paid advertising is used for large events where critical masses of attendees are needed for success.

Education

Education			
Target Audience Group	Projected Served	Projected Cost	Repetitions or Number
Adult/General Public	305,850	\$18,250	1
Business/Industry	2,773	\$18,251	1
Government/Institutional	21,500	\$18,252	1
Children/Educators	10,224	\$18,253	1

Narrative:

County educational activities will primarily encourage people to recycle more at County Centers. Target audiences will be educated about the savings to the taxpayer from recycling versus throwing waste into the trash. The County pays for a team of Americorps volunteers used for center engagement where users are educated about the costs of waste and recycling operations and how recycling saves tax dollars. The County also contracts with local community organizations to provide Recycling and Litter Education throughout the Knox County Region.

City and County will target the general public to promote solid waste & recycling activities, events, and special projects. Due to changing media habits and budgetary limitations much of the marketing is achieved through social networking and earned media. Paid advertising is used for large events where critical masses of attendees are needed for success.

Disaster Debris Management

Does your local government have a Disaster Debris Management Plan?

No.

Are pre-event contracts in place?

No.

Are staging areas identified?

Yes.

Where?

City and County owned properties throughout the jurisdictions.

How is Waste Reduction and Diversion addressed in the local disaster debris management plan?

Not applicable.

VI. Problem Management and Education Management

Complaints

Is a method provided to receive complaints from the public related to solid waste issues?

Yes.

Provide the total number of reported solid waste complaints:

10,000 estimated

Provide the number of solid waste complaints resolved:

10,000 estimated

Describe the nature of the complaints:

Callers request information about facilities, report litter and dumping, complain about solid waste policies, complain about solid waste facilities and/or personnel. Knox County Solid Waste reports that an estimated 88,000 unique web page views per year. City of Knoxville took 867 calls regarding missed pickups for trash and/or recycling. The City of Knoxville reports an average of 132 hits per month for the solid waste web page of the website and 2,122 hits per month for the recycling web page of the website. City and County staff working at their respective facilities answer several questions daily that are not counted in the above numbers.

Past Education Efforts

Education.						
Name	Sponsor	Program Effectiveness	Program Type	Program Target	Number Served	Description
Community Recycling Events	City, County, Non-profits, Businesses	Positive Result - Noticeable increase in materials or quality after campaign	Community Outreach, Other	Adult & General Public, Business & Industry, Government & Institutional, Children & Educators, Media, Civic & Environment, Other	County-Wide	City and County Solid Waste Offices are sponsors and/or partners for several recycling events that take place on a yearly basis. Among them are EarthFest, America Recycles Day, regional medication collection events, electronic waste events, municipal events/facility recycling, thermometer exchanges, and small scale event recycling for community groups/activities. The primary educational goal of these initiatives is to show best practices for waste disposal but events are also used to promote a broader awareness and familiarity for recycling at other locations in the community.
Expos, Trade Shows, Public Outreach, & Consultation	City and County	Positive Result - Noticeable increase in materials or quality after campaign	Community Outreach	Adult & General Public, Business & Industry, Government & Institutional, Children & Educators, Media, Civic & Environment, Other	County-Wide	Solid Waste offices will place an exhibit at any trade show that offers to provide a free space. In some instances, both City and County Solid Waste Offices will pay for spaces and furnish additional exhibit space(s) for partner organizations to be co-located. Furthermore, constituents wishing to receive a presentation from an official are obliged. Trade show booths and group speaking settings allow Solid Waste Offices to interact with thousands of individuals every year where they are educated about waste, educated about recycling & waste reduction, are informed of ongoing activities, and sometimes recruited as volunteers on future projects. Constituents wishing to receive expert waste and recycling consultation are also obliged to the extent possible.
City of Knoxville Residential Curbside Program Waiting List	City of Knoxville	Positive Result - Noticeable increase in materials or quality after campaign	Advertisement, Public Access, Tour, Community Outreach, Other	Adult & General Public, Media, Other	Other-City of Knoxville Residents	The City of Knoxville reached out to residents on the waiting list to confirmed interest in receiving curbside recycling service. Approximately 2,300 households confirmed and were advised of the rollout schedule.
County AmeriCorps Center Engagement (County AmeriCorps Team)	County with State Recycling Rebate Support	Positive Result - Noticeable increase in materials or quality after campaign	Community Outreach	Adult & General Public, Business & Industry, Government & Institutional, Children & Educators, Media, Civic & Environment, Other	County-Wide	The County pays for a team of AmeriCorps volunteers (usually 3-4). The team has several core missions, which are to engage center users and explain the economic benefits of recycling, plan and organize regular events, serve as liaisons on inter-departmental or inter-agency initiatives, and to promote waste reduction and recycling within the Knox County Region.
City Solid Waste and Recycling AmeriCorps	City of Knoxville	Positive Result - Noticeable increase in materials or quality after campaign	Community Outreach	Adult & General Public, Business & Industry, Government & Institutional, Children & Educators, Media, Civic & Environment, Other	County-Wide - City of Knoxville Predominately	The City pays for an AmeriCorps volunteer. The member has several missions, which are to engage center users and explain the economic benefits of recycling, plan and organize regular events, serve as liaisons on inter-departmental or inter-agency initiatives, and to promote waste reduction and recycling within the City of Knoxville
County Litter Prevention Education (Keep Knoxville Beautiful)	County with State Litter Grant Support	Positive Result - Noticeable increase in materials or quality after campaign	Classroom, Advertisement, Public Access, Tour, Community Outreach, Other	Adult & General Public, Business & Industry, Government & Institutional, Children & Educators, Media, Civic & Environment, Other	County-Wide	Knox County Solid Waste contracts with Keep Knoxville Beautiful (KKB) for litter prevention education in the community based on funding from the State of Tennessee Litter Grant Program. The contract allows for a wide variety of activities to reach citizens of Knox County. KKB's activities include but are not limited to promoting waste reduction, promoting proper waste disposal in the community, encouraging groups to pick up waste along public rights of way, and encouraging communities to take ownership of their litter problems by adopting roads, parks, and streams. For the most part its activities do not overlap with the recycling education activities.
Regional Medication Collection Program	City, County, State, Non-profits, Utilities, Businesses	Positive Result - Noticeable increase in materials or quality after campaign	Community Outreach, Other	Adult & General Public, Business & Industry, Government & Institutional, Children & Educators, Media, Civic & Environment, Other	County-Wide, Regional	An unwanted medication program was created in at the end of 2008 to address the growing concern of pharmaceuticals and personal-care waste products. When medications and prescriptions change, expire, if loved ones die, or if they are simply unwanted most individuals pour them down the drain or flush them down the toilet. Medications that are poured down the sewer ultimately make their way into waters of the state because waste water treatment systems were not designed to filter out pharmaceuticals. If medications aren't disposed of properly they can end up in the hands of children or addicted relatives. Medication collection events are held regularly to collect this waste and to promote the existence of a permanent collection box located at the city of Knoxville Police Department. The program continues to be successful, attendance is steady, and the collection of medication is growing.

VII. Program Summary

Solid Waste Planning - Detail Strategies on Diversion

The Region's 10-Year Plan outlined a strategy to manage solid waste. In lieu of developing a complete update of this Plan as required by TCA 82-211-814, answer the following questions in as much detail as possible. These questions should be answered by the government body responsible for directly determining solid waste policy within the region.

Name and title of individual(s) who answers the following questions:

Document prepared by Drew Thurman*

*The following individuals served in an advisory capacity for updating the Regional Solid Waste Plan subject to the approval of the Knox County Regional Solid Waste Board:

- Drew Thurman, Knox County Compliance Manager
- Tom Salter, Knox County Solid Waste Director
- Zach Johnson, Knox County Recycling Coordinator
- John Homa, City of Knoxville Solid Waste Project Manager
- David Brace, City of Knoxville Director of Public Service Division
- Cassie Garner, City of Knoxville Public Service Coordinator

Looking back on the Plan from this current year, what changes have been made in the way the county handles & prioritizes Solid Waste?

There were no major changes in the handling and prioritization of Solid Waste in the Region.

Waste and recycling data is reported regionally the planning, implementation, and prioritization of solid waste and recycling is handled independently by the public and private sectors respectively. Meaning that the public sector waste and recycling activities (County, City) plan and prioritize waste and recycling goals independently from the each other. Additionally the private sector plans and prioritizes waste and recycling activity largely independently from the public sector with the exception of private sector contractors handling public sector waste and recycling. The public sector waste and recycling activity is small in comparison to the overall waste and recycling activity taking place within the Knox County region.

Knox County Solid Waste continues to operate County Convenience Centers for waste and recycling, manage a waste tire recycling program, manage a litter and dumping program, promote and encourage waste reduction and recycling at facilities and events, and investigate environmental crimes.

Knox County Solid Waste Departmental operations improved remarkably over the past several years. The County Solid Waste core missions remain essentially unchanged. The management team transitioned from a more personal to a more professional style of leadership that embrace changing behaviors and new technologies. The department employees' positions were re-graded to reflect their increased visibility and their role as customer service representative. Equipment operators and truck drivers' positions were re-graded to reflect the difficulty and highly visible public nature of their position. Departmental assets and equipment were expanded, replaced, and updated where possible. An increased emphasis was placed on preventative maintenance in order to preserve equipment lifespan and create a safer work environment. Departmental employees are trained regularly regarding operations, safety, compliance, and customer service issues. Technologies such as global positioning system (GPS) fleet and asset monitoring are reducing risk and fuel costs. Remote video monitoring

provides management the ability to monitor the centers and personnel or review incidents for investigations and work performance.

The County is committed to expanding waste reduction and recycling options at County Convenience Centers when it is more cost effective than landfilling or when it is necessary to achieve diversion goal established by the State of Tennessee. Changes in prioritization or handling at Convenience Centers will only affect center users' waste streams and therefore may not be noticeable in a regional context as limits in the public collection system are often absorbed by the private operators.

City of Knoxville continues to provide excellent waste and recycling services to City residents as well as businesses and apartment dwellers in the central business district. The City also manages a centrally located solid waste management facility (City Transfer Station) for the purpose of providing higher value waste services for residents and businesses. There are several public spaces where waste and recycling services are provided such as the central business district, event spaces such as the civic auditorium, and public parks with recreation centers.

The City of Knoxville curbside recycling program will be expanded to all the additional residents in the waiting list. After the expansion the program is expected to reach 23,000 homes. All expansions of the program require initial investment for the costs of the cart and continued operating costs for pickup. The City of Knoxville regularly picks up roadside litter.

List and discuss the three largest obstacles to your solid waste disposal system:

- 1) Changing individuals' behavior and attitudes towards waste to accurately convey the true cost of waste.
- 2) Lack of understanding by a significant number of citizens that waste and recycling has a significant cost (indirectly through taxes or through direct payment to waste haulers) and that recyclable material has considerable value that has great potential to offset disposal costs and generate revenue.
- 3) Lack of regional capability to dispose of and/or recycle special wastes such as tires, sewage sludge, shingles, et cetera.

In the coming years, how do you plan to handle disposal of waste differently to better address these issues?

The public sector will address identified obstacles through a combination of public education, procurement of equipment and technology, and taking advantage of favorable market developments. Waste recycling and disposal options offered by municipalities are anticipated to remain the same unless new private sector waste hauling, processing, recycling, or disposal solutions become feasible or demonstrate a better more cost effective or environmentally friendly solution. Public institutions will only support private sector activities that operate in accordance with all relevant laws, rules, regulatory procedures, and permitting processes.

There is public and private sector interest in studying the feasibility of new forms of waste reduction, recycling, or disposal methods such as waste to energy or anaerobic digestion. New methods that lower waste disposal costs or that produce less environmental impact are desired. In the event that a new method or processing is financially feasible a variety of funding mechanisms would be explored including grant funding or public private partnerships.

The County Solid Waste Department will seek a contractor to handle debris arising from disasters. The successful contractor for disaster debris removal services will be required to maximize diversion and recycling where feasible and cost effective.

List and discuss the three largest obstacles to your waste reduction/recycling system:

1) There is a greater demand by the public for comingled (single stream) recycling collection programs. Collecting comingled recycling significantly increases diversion because more people are willing to participate in recycling when the barrier of sorting material is removed. Comingled recyclables are less valuable to the agency collecting them because they must be sorted into their respective commodities after collection at a considerable cost in labor and/or equipment by a material recovery facility (MRF). The loss of revenue is considerable when shifting from source separated system to a comingled system. There is potential for cost avoidance if the cost to recycle comingled material at a MRF is less than the cost to dispose of material in a landfill. Comingled material collection requires access to a MRF.

2) Recycling participation. Data shows there may be a plateau for participation in voluntary recycling programs. The plateau is smaller in drop-off programs as opposed to curbside programs. The participation is lower in programs where sorting is required than where recycling is comingled. Public resistance to changes in waste handling programs is a major obstacle.

3) Lack of money associated with increased investment for public collection programs and the cost barrier for residents and businesses paying for privately offered recycling services because private haulers do not offer recycling alone. Instead recycling collection is only offered by bundling recycling as an add-on to trash removal services.

In the coming years, what new programs, or modifications to existing programs, will be enacted to increase the amounts of material being reduced/recycled?*

1) The public sector will continue to explore a variety of funding methods in order to purchase new recycling equipment, such as: trucks, compactors, roll off containers, vehicles, collection trailers, and other such equipment necessary to improve the logistical operations surrounding the recycling program. Grant funding will be explored.

2) Knox County Centers will continue to be improved in order to remove the stigma that centers are simply dumps rather than comprehensive recycling and household waste disposal sites.

3) The City of Knoxville curbside recycling program will be expanded to all the additional residents in the waiting list. After the expansion the program is expected to reach 23,000 homes. All expansions of the program require initial investment for the costs of the cart and continued operating costs for pickup.

4) A comprehensive waste and recycling study is funded and will be initiated in calendar year 2014. Results will inform policy makers about best practices for waste and recycling in the region. The City and County are discussing the size and scope of the study. Information gained through such a study will be valuable in updating the Regional Solid Waste Plan.

5) The Solid Waste Region encourages innovative approaches to turning waste or recyclable material into something of value. However the Solid Waste Region expects all activities, even those considered most innovative, to strictly follow all permitting processes including all local, state and federal rules, regulations and laws. The Solid Waste Regional Board will not look favorably on solid waste activities that do not follow proper permitting procedures.

Improvements Remediation

Facility Improvements - Project any facility improvements needed for processing and/or managing solid waste and diversion efforts:

1) City and County operations plan to submit several capital improvement requests for the Fiscal Year 2015 budget. The City Transfer Station will finish planned upgrades from FY2014 and new replacement compactors will be purchased and installed for waste compaction. County Solid Waste will continue maintenance and repair of existing facilities and equipment in order to prolong operational life. The County instituted an aggressive preventative maintenance check and repair procedural program on equipment at County Centers in order to keep expensive industrial equipment operational and to rehabilitate equipment that has not aged well over its operational life.

2) The Karns and Carter County Convenience Centers need expansion in order to meet increased user demand. Conversely the Forks of the River Convenience Center is underutilized and will be closed. The County plans to and already budgeted funds to relocate and expand the Karns Center. The equipment from the closed Forks Center be installed at other centers in order to increase their ability to absorb additional users and material while Karns and Carter undergo construction. Funds will be requested in fiscal year 2015 to expand and renovate the Carter Center where it is currently located. Closing the Forks Center will result in a savings due to the increased operating efficiencies at John Sevier and reduced hauling costs associated with the Forks location.

3) County Centers will continue to be branded as household waste and recycling drop off centers rather than “dumps” in order to reinforce that waste handling can be handled in a clean manner that also maximizes recycling collection. The County will continue to keep equipment and facilities nicely maintained, painted, in working order, with printed signage and clearly defined solid waste policies, rules, etc. available in the form of educational pamphlets bulletin boards and/or kiosks.

4) The Region recognizes the need for private sector institutions to expand their capabilities to process waste and recyclable materials in ways that cannot fully be anticipated. The expansions could include additional services, buildings, equipment, land, efficiency improvements, jobs, and more. Private sector capacities may become public sector contractors providing the services they provide are more cost effective or are better for the environment.

Monitoring Cost Projections - Project any future monitoring, remediation, or mandated improvements over the next five years by the county for county owned solid waste facilities, including convenience centers or transfer stations:

No remediation is expected.

Waste Stream Estimate*

Name	Residential	Commercial	Institutional	Industrial
Give approximate percentages of each category of waste that make up your county's MSW stream.	18.5%	38.5%	0.0%	43.0%

*Determined in March 2010 by surveying landfills owned and operated by Waste Management and Waste Connections and averaging their estimates. The landfills did not collect separate metrics for institutional waste. This figure will be used until a waste and recycling survey can supply a better estimate as general waste trends have not changed

Successes and Setbacks

Describe any setbacks encountered in your solid waste management program and how these setbacks will be resolved in future plans:

1) The number of recycling companies in the Knox Solid Waste Region has been reduced resulting in less competitive pricing for services and sale of recyclable commodities but the region has not lost capacity. Capacity to handle several types of commodities is expanding.

Describe your successes in the implementation of your Solid Waste Management Plan.

What are you doing well to promote waste reduction:

1) City and County Solid Waste Offices collect very accurate waste data. The information is being collected and analyzed in order to determine recycling rates, participation, who is recycling, who is not recycling, and why. The findings are being used to tailor specific messages, design programs and projects to specific target audiences in order to increase recycling and encourage proper waste disposal practices.

2) The County has created a system to account for the cost of waste disposal and cost avoidance savings due to recycling in order to promote the advantages of waste reduction and recycling as alternative to land filling.

3) City and County support several local events and festivals. Increased visibility maximizes the numbers of individuals with direct educational interaction with the Solid Waste Offices. Solid Waste officials are increasingly being called to serve as expert consultants for several presentations, task forces, event committees, green initiatives, and sustainability projects.

4) In 2011 The City of Knoxville launched a curbside recycling program for over 20,000 households. The program was so successful that a waiting list was created for households wishing to participate. In the spring of 2014 the curbside program will expand by 3,000 households to over 23,000 households. The curbside program collects roughly 5,000 tons of recycling per year.

5) The Regional Solid Waste Board is more engaged in City/County/Private Sector waste practices. A new set of public procedure rules were established in order to be fair and consistent in the event an application for approval is presented to the board in the future.

Description of the Municipal Solid Waste Region

State or revise current responsibilities of each local government in the region by jurisdiction.

The Regional Solid Waste Board plans and reports solid waste, diversion, and recycling data annually to the State of Tennessee. The Regional Solid Waste Board is a (5) five-member board established by Knox County Commission resolution R-92-11-127. The *“primary and prevailing purpose of the municipal solid waste regions are the preparation of municipal solid waste regional plans. The Board is charged with development of a municipal solid waste regional plan that results in the most cost effective and efficient management of municipal solid waste and is in the best interest of the citizens of Knox County. The board is empowered to utilize the existing Knox County governmental personnel, to employ or contract with persons, private consulting firms, and/or governmental, quasi-governmental, and public entities and agencies to utilize Knox County’s services, facilities, and records completing this task”*.

The only government agencies that offer waste disposal in the region are Knox County and the City of Knoxville. Those municipal collection programs account for roughly 30 percent of the total landfilled waste originating from the region.

The County is responsible for operating county convenience centers, managing a state funded tire recycling program, managing a state funded litter dumping cleanup program, and a state funded litter dumping abatement education program. Knox County and The City of Knoxville jointly fund (with additional state funding) a permanent household hazardous waste facility (HHW).

The City provides a higher level of service to its residents including curbside trash pickup, curbside recycling options, drop off recycling centers, and litter/dumping control.

Describe and provide an analysis of the Current Solid Waste Management System within the region.

The region has excellent public and private sector systems in place to manage most solid waste recycling and disposal needs.

Describe the growth trends, waste projections, and system structure of the region.

City and County government waste trends have been flat in recent years. Modest increases in recycling have occurred with corresponding decreases in landfilled weight. The total weight changes are modest.

Describe current waste reduction strategies for the region. Include effectiveness. If positive waste reduction efforts are not occurring, describe why and lay out strategy with timeline to address negative result efforts.

Strategies for waste reduction include but are not limited to education of the public by municipalities, private industry, and the non-profit sectors, public and private infrastructure improvements and investments, the free-market competition for recycling services, and significant non-profit activities and events that promote recycling and waste reduction

Describe current waste collection and transportation systems. Include any expected changes or revisions to this plan.

Most waste is collected and transported by the private sector. The exceptions are: Knox County operates convenience centers for collection of household waste and recyclables and transports collected recyclables to buyers. At this time the municipalities anticipate continuing to outsource the vast majority of waste collection and transportation to the private sector. There is also significant private sector waste and recycling collection and transportation that does not involve the government.

Describe current recycling strategies. If capture rate for commodities are less than the percentage described in the region's plan for available materials, what will be done to address this issue. Give time table of projects, responsible parties, and method to determine success that will be used to attain this.

The recycling strategy for the region is to encourage convenient, free or low-cost recycling options to individuals, organizations and businesses. There is not a specific target rate set for recycling commodities. In recent years, the real-time diversion rate for the region is approximately 60%.

Describe the region's current composting, solid waste processing, waste-to-energy, and incineration capacity and strategies. Note any future or expected changes.

There are no permitted composting facilities in the region. There are multiple public and private solid waste processing facilities in the region. The public and private sectors collect tires, waste oils, wood waste, waste chemicals, cooking oil, grease, and methane for waste-to-energy use.

Incineration is not currently permitted in Knox County due to air quality management regulations. There are no anticipated changes in the current system. New processes that represent more cost efficient, effective, or more environmental solutions to the public sector for waste disposal will be explored.

What is the current disposal capacity for the solid waste processing facilities used by the region?

Landfills located in and/or utilized by entities in the region are privately owned and operated and they are regulated by TDEC. Furthermore, other regions utilize those same sources for disposal. Current landfill disposal capacity is not currently known by the public sector. The City and County collection capacity is sufficient to meet current demand and projected growth for years to come.

Describe public information and education strategy, target, and general effectiveness.

Due to the scope and nature of the private sector activities in the region this information cannot be adequately summarized. The region's knowledge of public sector's activity is limited. This question was addressed in great detail under education programs but the answers are limited to known municipal programs previously outlined.

Describe current problem waste management strategy. Include management descriptions for batteries, oil, paint, antifreeze, electronics and HHW materials.

Batteries) Batteries are picked up from County Convenience Centers and the Household Hazardous Waste Facility (HHW) by contractors who make bread runs or pick up regularly. The contractors pay revenue for the batteries collected.

Oil and Antifreeze) Oil and Antifreeze are picked from Knox County Convenience Centers and the City of Knoxville Household Hazardous Waste Facility (HHW) by contractors. The material is collected regularly or along bread runs. The contractors pay revenue to the City and County for the oil collected and they charge fees to process the antifreeze and used oil filters.

Paint) Liquid paint is not allowed at County Centers. Dried latex paint is accepted providing it has been mixed with a hardener and dried to a slug. All other paint is directed to the permanent Household Hazardous Waste Facility (HHW).

Electronic Waste) Most types of ewaste are collected at HHW free of charge from households and for a modest fee from institutions and businesses. Television recycling is available for a modest fee at the City Transfer Station. The City and County support regular electronic collection recycling events operated by other non-profit institutions. Knox County Convenience Centers have entered into a contract with Goodwill Industries for Goodwill to collect most types of ewaste and televisions free of charge from the public.

HHW) Knox County leverages state funding and the City of Knoxville Solid Waste Offices to offer a permanent Household Hazardous Waste (HHW) facility. HHW is limited to residents of Knox County only.

Tires) Knox County Solid Waste accepts up to (4) four tires per person for free per year at County Centers. The City of Knoxville Transfer Station accepts for a fee up to (4) four tires per person. The City of Knoxville will also accept a limited number of tires similar to its regular household trash collection for no additional fee from residents. All City-collected tires are collected and then transferred to the Transfer Station, then, later taken to the County tire contractor.

Tire generators charge customers a \$1.35 pre-disposal fee (tax) and remit money to the State of Tennessee. Starting in July 2014, \$1.00 per tire sold in the County will be paid directly to the Knox County in order to pay for waste tire processing and disposal in the County. The County will work with generators to establish a proportional and/or fair amount of ton credit at the County tire contractor where the generator may take waste tires for processing without additional fees until the generator reaches their limit. Once a generator reaches their limit they will become cash customers with the tire processor until the County receives additional funds from the State or unless there is a sufficient cause and available funds for the County to increase the amount ahead of time.

Cylinders) Compressed gas cylinders are becoming increasingly problematic at public collection programs. While most cylinders are considered commercial waste, residents regularly show up with various types of pressurized (or empty) cylinders that are costly and difficult to transport, empty, recycle, or dispose of in a proper manner. Policies are being more strictly enforced and residents are being put in contact with private sector solutions that will accept cylinders. Example problem cylinders are: propane tanks, fire extinguishers, carbon dioxide tanks, SCUBA tanks, acetylene welding tanks, oxygen tanks, helium tanks, and Freon recharge tanks.

Briefly describe the current level of staff and how the program is funded.

Due to the scope and nature of the private sector activities in the region this information cannot be adequately summarized. The number of staff from public and private sectors in the region is significant. Only public sector data is available. There are approximately 50 staff members working directly under the purview of City and County Solid Waste Offices. Municipal staff is sufficient to meet operational needs.

VIII. Landfill - Annual Material Tonnage

Landfill totals reflect the total amount of waste reported from landfills as originating in the Knox County Region being disposed in landfills for the calendar year. This is the first increase in total waste landfilled in a few years.

Landfill Disposal				
Disposed	Landfill Class	Landfill Name	Solid Waste Tons	
Inside Tennessee	Class I	Chestnut Ridge Landfill And Recycling Center - SNL010000160	180,680	
Inside Tennessee	Class I	Meadow Branch Landfill Inc - SNL540000174	86,194	
Inside Tennessee	Class I	Volunteer Regional Landfill - SNL760000271	57,769	
Inside Tennessee	Class III/IV	Poplar View Class Iii Landfill - DML470000057	92,313	
Inside Tennessee	Class III/IV	Riverside C&D Landfill, Llc - DML470000011	69,141	
Inside Tennessee	Class III/IV	Yarnell Demolition Landfill - DML470000069	55,755	
		Total Landfill	541,852	100%
		Class I	324,643	60%
		Class III/IV	217,209	40%
		Landfilled 2012	790,657	
		Landfilled 2011	707,085	
		Landfilled 2010	626,555	
		Landfilled 2009	655,890	

IX. Recycling and Diversion Reported

Recycling and diversion estimates are reported for all recyclers, recycling haulers, or recycling processors reporting to the Solid Waste Office. The majority of recycling activity in the region is attributable to the TDEC commercial/industrial classification where recycling buyers or sellers pay to recycle or are compensated for recyclable commodities as part of their business model. Some recycling activity goes un-reported because of non-responsive recycling businesses or unknown activities. Official numbers will be determined and accepted by TDEC.

Re-TRAC Recycling & Re-TRAC Diversion Reported				
Recycling or Re-TRAC Diversion	Collection Type:	Name	State	Tons
Re-TRAC Recycling	Commercial/Industrial	PSC Metals, Inc.	Tennessee	150,074
Re-TRAC Recycling	Commercial/Industrial	RockTenn	Tennessee	30,484
Re-TRAC Recycling	Commercial/Industrial	Waste Connections of TN, Inc	Tennessee	19,647
Re-TRAC Recycling	Residential - (Public)	Knox County Solid Waste	Tennessee	12,007
Re-TRAC Recycling	Commercial/Industrial	Tennessee Metals Co. LLC.	Tennessee	8,971
Re-TRAC Recycling	Commercial/Industrial	Goodwill Industries Knoxville Inc.	Tennessee	8,556
Re-TRAC Recycling	Residential - (Public)	City of Knoxville, Solid Waste Office	Tennessee	7,859
Re-TRAC Recycling	Commercial/Industrial	Tennessee American Recycling, LLC	Tennessee	5,922
Re-TRAC Recycling	Commercial/Industrial	Waste Management Inc.	Tennessee	5,672
Re-TRAC Recycling	Commercial/Industrial	Nature's Best Organics of TN, LLC	Tennessee	5,143
Re-TRAC Recycling	Commercial/Industrial	Construction Waste Recycling LLC (formerly TnWaste)	Tennessee	2,897
Re-TRAC Recycling	Commercial/Industrial	Enterprise Waste Oil Company, Inc.	Tennessee	2,374
Re-TRAC Recycling	Institutional	University of Tennessee, Knoxville	Tennessee	1,564
Re-TRAC Recycling	Commercial/Industrial	Safety-Kleen Systems	Illinois	1,492
Re-TRAC Recycling	Commercial/Industrial	Liberty Tire Recycling, LLC	Tennessee	1,242
Re-TRAC Recycling	Commercial/Industrial	Knoxville Recycling Coalition	Tennessee	332
Re-TRAC Recycling	Commercial/Industrial	Master Battery LLC	Tennessee	176
Re-TRAC Recycling	Commercial/Industrial	FCC Environmental	North Carolina	175
Re-TRAC Recycling	Commercial/Industrial	Battery Service Inc.	Tennessee	89
Re-TRAC Recycling	Commercial/Industrial	B.C.S Computer Recycling	Tennessee	63
Re-TRAC Recycling	Commercial/Industrial	Clean Harbors Environmental Services	Tennessee	2
Re-TRAC Diversion	Residential - (Public)	City of Knoxville, Solid Waste Office	Tennessee	34,593
Re-TRAC Diversion	Commercial/Institutional/Industrial	Knoxville Utilities Board	Tennessee	25,210
Re-TRAC Diversion	Commercial/Industrial	Nature's Best Organics of TN, LLC	Tennessee	21,167
Re-TRAC Diversion	Commercial/Industrial	Onsite Environmental	Tennessee	5,000
Re-TRAC Diversion	Institutional	University of Tennessee, Knoxville	Tennessee	2,756
Re-TRAC Diversion	Commercial/Industrial	Construction Waste Recycling LLC (formerly TnWaste)	Tennessee	2,008
Re-TRAC Diversion	Commercial/Industrial	Griffin Industries	Tennessee	1,300
Re-TRAC Diversion	Commercial/Industrial	Valley Proteins, Inc.	Virginia	876
Re-TRAC Diversion	Residential - (Public)	Household Hazardous Waste Facility	Tennessee	155
Total Re-TRAC Recycling and Diversion				357,806
Proportion of Re-TRAC Diversion				264,741 74%
Proportion of Re-TRAC Recycling				93,065 26%
<i>Residential (Public) Portion</i>				54,613 15%
Total Waste Stream				899,658
Class I Landfilled				324,643 36%
Class II/IV Landfilled				217,209 67%
Recycling and Re-TRAC Diversion				357,806 40%
Waste Stream NOT disposed in a Class I Landfill				575,015.10 64%

X. Municipal Recycling - Annual Financial Data

City of Knoxville and Knox County budgetary estimates are extrapolated from fiscal year appropriated totals and do not coincide with the calendar year. Calendar year expenditures will differ from reported estimates. Fiscal year budgets may be obtained by submitting a document request to City of Knoxville or Knox County finance departments.

City and County Municipal Solid Waste Spending Estimates			
State Budget Category	City	County	Total
Expense			
51000 General Administration	\$ 1,206,096.00	\$ 369,823.00	\$ 1,575,919.00
55710 Sanitation Management			\$ -
55720 Sanitation Education/Information			\$ -
55731 Waste pickup			\$ -
55732 Convenience centers	\$ 96,008.00	\$ 2,852,367.00	\$ 2,948,375.00
55733 Transfer stations			\$ -
55734 Problem waste centers		\$ 84,242.00	\$ 84,242.00
55735 Bailing Centers			\$ -
55739 Other waste collection			\$ -
55751 Recycling Center		\$ 228,533.00	\$ 228,533.00
55752 Compost Center			\$ -
55753 Waste incinerator			\$ -
55754 Landfill Operation and Maintenance			\$ -
55759 Other waste disposal		\$ 415,750.00	\$ 415,750.00
55770 Post closure care costs			\$ -
64000 Highways litter and trash collection		\$ 64,500.00	\$ 64,500.00
70000 Education			\$ -
90000 Capital projects			\$ -
Contracted Services	\$ 12,077,235.00		\$ 12,077,235.00
Total	\$ 13,379,339.00	\$ 4,015,215.00	\$ 17,394,554.00
Revenue			
40000 Local Taxes		\$ 2,400,000.00	\$ 2,400,000.00
40100 County Property Taxes		\$ -	\$ -
40200 County Local Option Taxes			\$ -
42000 Fines, forfeitures and penalties		\$ 60,000.00	\$ 60,000.00
43106 Commercial and industrial waste collection	\$ 78,900.00		\$ 78,900.00
43107 Residential waste collection charges			\$ -
43108 Convenience Center waste collection charge			\$ -
43109 Transfer waste stations collection charge	\$ 923,606.00		\$ 923,606.00
43110 Tipping Fees			\$ -
43111 Surcharge-State			\$ -
43112 Surcharge-Host Agency			\$ -
43113 Surcharge-General		\$ 312,375.00	\$ 312,375.00
43114 Solid waste disposal fee			\$ -
44145 Sale of recycled materials		\$ 650,000.00	\$ 650,000.00
44165 Commodity rebates			\$ -
46170 Solid waste grants	\$ 82,190.00	\$ 400,500.00	\$ 482,690.00
46430 Public Works grants - Litter Program			\$ -
468511 State Revenue Sharing			\$ -
47230 Federal government disaster relief			\$ -
48000 - Other Governments and Citizens Groups			\$ -
49800 - Transfer from General Fund	\$ 12,294,643.00	\$ 299,260.00	\$ 12,593,903.00
Total	\$ 13,379,339.00	\$ 4,122,135.00	\$ 17,501,474.00
Assets			
13100 Fixed Assets - Landfill Facilities Development		\$ 600,000.00	\$ 600,000.00
13200 Land		\$ 3,600,000.00	\$ 3,600,000.00
13300 Fixed Assets - Buildings and Improvements		\$ 1,590,000.00	\$ 1,590,000.00
13700 Machinery and Equipment			\$ -
Total	\$ -	\$ 5,790,000.00	\$ 5,790,000.00
Liabilities			
21870 Accrued liability for landfill closure/post closure care costs - Current			\$ -
27700 Accrued liability for landfill closure/post closure care costs			\$ -
Total	\$ -	\$ -	\$ -

XI. Municipal Household Hazardous Waste (HHW) - Tonnage

The HHW Facility is operated by the City with equal funding for operating and disposal costs from Knox County and the City of Knoxville. All City and County residents are permitted to use the facility. In 2013, this facility was visited by 5,874 vehicles and processed 155 tons of HHW, 73% of which was latex paint.

<i>Household Hazardous Waste</i>				
Year	2010	2011	2012	2013
Tons	120	169	146	155

XII. Appendices

Appendix A: References to T.C.A. for Annual Reporting

Regional Plan Update via Re-Trac (under planning summary)

The Region's 10-Year Plan outlined a strategy to manage solid waste. In lieu of developing a complete update of this Plan as required by **TCA 82-211-814**, answer the following questions in as much detail as possible. These questions should be answered by the government body responsible for directly determining solid waste policy within the region.

T.C.A. 68-211-814 Municipal solid waste region plans — Authority of region or solid waste authority after approval. —

T.C.A. 68-211-815 Municipal solid waste region plans — Contents. —

T.C.A. 68-211-871 Annual report — Contents — Annual progress report — Sanctions for noncompliance — Annual reports by recovered materials facilities. —

Appendix B: Municipal Solid Waste Planning Regions Map as of 4/11/2007

Municipal Solid Waste Planning Regions



As of 4/11/07

Appendix C: Re-Trac Report

The Re-Trac reporting system general report starts on the next page. TDEC may make adjustments to recycling totals after they are entered therefore numbers may have changed after the generation and publication of the attached report. Other Re-Trac reports may be generated by TDEC or other authorized users such as the Knox County Solid Waste Department or Regional Solid Waste Board Chair. Requests for additional information may be made to TDEC or Knox County Solid Waste offices. Re-Trac privileges are issued and limited by TDEC.