

Metro Nashville and Davidson County

2016 Annual Solid Waste Progress Report



**Davidson County
Solid Waste Region Board**

March 29, 2017

Administrative Contact Information

Regional Planning Contacts

Report Author:*Clayton Hand, Engineer

Organization:*Metro Nashville Public Works, 750 S. 5th Street, Nashville, TN 37206

Phone:*(615)862-8623

Email:*clayton.hand@nashville.gov

Solid Waste Regional Planning Board or Part 9 Authority

Chair:*John Sherman

Address:*526 Fairfax Ave, Nashville, TN 37212

Phone:*(615)383-9606

Email:*jsherman@headwatersgroup.com

Planning Board

Name	Representing	Term End
Campbell Heidi	Oak Hill	2/25/2021
Cash, Mike	Berry Hill	10/14/2018
Diehl, Robert	Nashville & Davidson County	12/31/2018
Hackett, Jennifer	Nashville & Davidson County	12/15/2017
Lane, Daniel	Nashville & Davidson County	12/15/2018
McCormick, Jeff	Goodlettsville	3/15/2021
McMichael, Kenneth Sr.	Nashville & Davidson County	12/15/2022
Paz, Vanessa	Nashville & Davidson County	12/15/2022
Reardon, Beth	Belle Meade	1/5/2021
Sherman, John	Nashville & Davidson County	12/15/2022
Turner, Dinah	Nashville & Davidson County	12/15/2018

Local Government Contacts

Local Government Mayor or Executive:*Megan Barry, Mayor

Address:*Metro Courthouse, 1 Public Square, Nashville, TN 37201

Phone:*(615)862-6000

Solid Waste Director: Mark Sturtevant, Public Works Director

Organization: Metro Nashville Public Works, 750 S. 5th Street, Nashville, TN 37206

Phone:(615)862-8750

Recycling Coordinator: Jeffrey Ezell, Recycling Coordinator

Organization: Metro Nashville Public Works, 750 S. 5th Street, Nashville, TN 37206

Phone:615-880-2419

Mobile:615-642-0532

Email:jeffrey.ezell@nashville.gov

2025 Statewide Solid Waste and Materials Management Plan Implementation

Please select the strategy(ies) your Region is/are incorporating in the Regional Solid Waste Plan and describe the tactic(s) your Region is/are using to implement.

Update local government waste reduction and recycling goals. *

Yes

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement: *

The Solid Waste Region Board has been looking at the current 10 Year Plan recommendations and asked Metro for a long-term Solid Waste Master Plan. Metro is contracting with a nationally recognized engineering/consulting firm to develop the plan. It will be completed in a year.

Tire Report

Amount of Tires managed: * 7,327.61 *tons*

Amount of Tires sent to beneficial use: * 7,327.61 *tons*

Objective 2: Increase Recycling Access & Participation

Diversion Activities

Did your local government have any household hazardous waste events?*

1. Yes
2. No

Source Reduction Activities

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

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

July 1, 2011 - Yard waste banned from waste containers

July 1, 2012 - Trash cart fees for more than two carts

July 1, 2013 - Private haulers required to offer recycling and cardboard banned from waste containers

July 1, 2015 – Electronics banned from waste containers

List Curbside Recycling Programs by Jurisdiction

Does any local government have any curbside recycling programs?*

1. Yes
2. No

Jurisdiction	Participation	Materials	Collection Method
Davidson - Urban Services District	74%	Fiber/Paper, Plastic, Metals	Co-mingled
City of Oak Hill	100%	Fiber/Paper, Plastic, Metals	Co-mingled
City of Goodlettsville	40%	Fiber/Paper, Plastic, Metals	Co-mingled
City of Berry Hill	77%	Fiber/Paper, Plastic, Metals	Co-mingled
City of Belle Meade	35%	Fiber/Paper, Plastic, Metals	Co-mingled
City of Forrest Hills	40%	Fiber/Paper, Plastic, Metals	Co-mingled

Recycling Drop-off Locations

Location	Address	Hours	Acceptable Material
Bellevue Metro Transit Authority's Park & Ride	Coley Davis Road and Hwy 70 S	Open 24 hrs.	newspaper, mixed paper, paper board, cardboard, aluminum, tin, glass containers, plastic bottles & containers
Cane Ridge High School	12848 Old Hickory Blvd	Open 24 hrs.	newspaper, mixed paper, paper board, cardboard, aluminum, tin, glass containers, plastic bottles & containers
Granbery Elementary School	5501 Hill Road	9 AM – 12 PM Saturdays	newspaper, mixed paper, paper board, cardboard, aluminum, tin, glass containers, plastic bottles & containers
Hermitage Hobby Lobby	4101 Lebanon Road	Open 24 hrs.	newspaper, mixed paper, paper board, cardboard, aluminum, tin, glass containers, plastic bottles & containers
Hillsboro High School	3812 Hillsboro Pike.	Monday through Saturday, 9 a.m. to 5 p.m. and Sunday, Noon to 5 p.m.	newspaper, mixed paper, paper board, cardboard, aluminum, tin, glass containers, plastic bottles & containers
Joelton Middle School	3500 Old Clarksville Highway	Open 24 hrs.	newspaper, mixed paper, paper board, cardboard, aluminum, tin, glass containers, plastic bottles & containers
Lakewood City Hall	3401 Old Hickory Blvd	Open 24 hrs.	newspaper, mixed paper, paper board, cardboard, aluminum, tin, glass containers, plastic bottles & containers
McGavock High School	3150 McGavock Pike	Open 24 hrs.	newspaper, mixed paper, paper board, cardboard, aluminum, tin, glass containers, plastic bottles & containers
Old Ben West Library	Polk Avenue & Union Street	Open 24 hrs.	newspaper, mixed paper, paper board, cardboard, aluminum, tin, plastic bottles & containers (NO GLASS)
Tennessee State University	38th Ave N and Albion Street	7 AM – 7 PM daily	newspaper, mixed paper, paper board, cardboard, aluminum, tin, glass containers, plastic bottles & containers
Waste Management Recycling	630 Myatt Drive	7 AM – 4 PM Monday-Friday	newspaper, mixed paper, paper board, cardboard, aluminum, tin, glass containers, plastic bottles & containers
Whites Creek High School	7277 Old Hickory Blvd	Open 24 hrs.	newspaper, mixed paper, paper board, cardboard, aluminum, tin, glass containers, plastic bottles & containers

Problem Waste Management

Describe current problem waste management strategy. Include management descriptions for batteries, oil, paint, antifreeze, electronics and HHW materials.* Metro Public Works has two permanent household hazardous waste facilities open 7 days/ week to accept batteries, oil based paint, antifreeze, electronics and HHW. Additionally, all convenience centers accept electronics for recycling.

Waste Reduction & Recycling Obstacles

List and discuss the three largest obstacles to your waste reduction/recycling system:*Limited Obstacles include:

Limited funds for a broad, comprehensive education and outreach program. Nashville has a voluntary recycling program and continuing to communicate the importance and benefits of waste reduction and recycling is key.

As mentioned in the 10 Year Plan, the lack of a Metro operated waste disposal or processing facility in addition to the lack of any state-wide material bans is a challenge. Though Metro has implemented regulatory measures banning cardboard, yard waste and electronic waste from trash containers in Davidson County, enforcement of these and future regulations is difficult without operating a waste handling or disposal facility, or having state-wide bans in place on certain material going into landfills.

Limited composting or digestion options for large food waste producers to divert organics. Currently only one TDEC permitted facility exists within the Middle Tennessee Region.

Describe the growth trends, waste projections, and system structure of the region.* Davidson County is a vibrant region with population growth and construction rates one of the highest in the US. It is estimated that approximately 90 people move to Nashville every day. With that in mind, Nashville has seen an increase in landfilled tons both in the MSW and C&D areas. The long term solid waste master plan will outline a process and recommendations to increase diversion efforts.

2025 Statewide Solid Waste and Materials Management Plan Implementation

Please select the strategy(ies) your Region is/are incorporating in the Regional Solid Waste Plan and describe the tactic(s) your Region is/are using to implement.

Implement a Recycling Grant Plan. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement:*

Metro budgets for and receives grants for household hazardous waste operation and the recycling rebate grant. These are applied for and handled by the Metro Public Works Finance Division.

Support drop-off sites for residential collection where curbside not feasible. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement: *

Metro Public Works has 12 recycling drop-off sites and 4 convenience centers located throughout the county. These locations provide residents without curbside recycling the opportunity to recycle. The 4th convenience center, located on Ezell Pike in the southern part of Davidson County opened in January 2016.

Support enhancement of curbside and local government recycling programs. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement: *

On July 1, 2013, all waste haulers providing service to residents and businesses within Nashville and Davidson County were required to offer a recycling option to their customers. Businesses, apartments and condos with trash dumpsters now have the option, with their waste hauler or other recycler, to have a recycling dumpster placed at their location. Residents that contract for trash collection privately are also offered recycling options by their haulers

Work with partners to encourage sustainable materials management by businesses and industry. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement: *

Metro Public Works is supporting Resource Capture, Inc.'s proposed anaerobic digestion facility. This proposed facility will be a public/private partnership with Metro providing property for the facility. Exact date for construction is TBD.

Increase recycling access and participation in state government facilities. *

Yes

No

Increase diversion of construction and demolition. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement: *

Metro Public Works is in the process of updating Metro Code 10.20.360 to remove reference to fees as it relates to C&D recycling. While Metro was not charging a fee for recycled C&D waste, the current wording caused confusion among recyclers.

Increase diversion of electronics. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement: *

On July 1, 2015 Metro Nashville instituted a ban on electronics in waste containers. Residents can take electronic waste for recycling to the East, Omohundro and Ezell Pike convenience centers. The Ezell Pike center opened in January 2016.

Increase diversion of HHW and BOPAE. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement: *

In January of 2016 Metro Public Works opened the second permanent household hazardous waste facility in Davidson County. This second facility is located at the Ezell Pike Convenience Center in the southern part of Davidson County. Having two locations, open 7 days/week make it easier for residents to drop-off batteries, oil, electronics and household hazardous waste.

Objective 3: Promote Material Processing and End Use in Tennessee

Recycling Hub and Spoke Program

Do you operate a grant funded Hub or Spoke?

Yes

No

Recycling Rebate

Did this county (including municipalities) qualify for a recycling rebate?

Yes

No

Jurisdiction: Nashville & Davidson County

Please describe how funds were used, and how they sustained or improved recycling for local governments. Also, please provide a county recycling report for local governments who recycled the recycling rebate.

The Recycling Rebate funds were used to purchase curbside recycling carts.

Facility

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.

1. Waste Management, 208 Riverhills Dr, Nashville, TN 37210
2. Waste Management, 630 Myatt Dr, Nashville, TN 37115

2025 Statewide Solid Waste & Materials Management Implementation Plan

Please select the strategy(ies) your Region is/are incorporating in the Regional Solid Waste Plan and describe the tactic(s) your Region is/are using to implement.

Develop region recycling Hubs where collection and delivery to processors or end users remains cost prohibitive. *

Yes

No

Seek and facilitate opportunities for public/private partnerships for the collection and processing of recyclables. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement: *

Public Works currently contracts with SpringBack for mattress/box springs recycling, Clean Harbors for household hazardous waste disposal, Waste Management for glass and plastics/paper/cardboard/metal cans (from source-separated drop off sites and single-stream curbside), Dynamic Recycling for electronics, PSC Metals for metals, Nature's Best for yard waste. Metro Public Works and Metro Government is providing assistance to Resource Capture, Inc. to locate an anaerobic digestion facility in Davidson County.

Support the development or enhancement of online tools to facilitate materials processing/marketing. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement:

Metro Government would support any efforts of TDEC to enhance materials processing and marketing.

Support the development of scrap tire processing and end markets for tire-derived materials. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement: *

Metro Nashville & Davidson County will support any efforts on the part of the State to expand recycling options for tires. Currently, only one tire recycler exists in our region and additional options would benefit all county tire recycling programs.

Incorporate sustainable materials management considerations in public purchasing decisions. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement: *

The Metro Nashville Finance Department has a Green Procurement Initiative (GPI). The GPI program assists Metro Government agencies in implementing strategies to prevent waste and pollution by considering environmental impacts along with price, performance, product safety, and availability when evaluating solicitation offers for products and services. Metro Nashville's Procurement Division has adopted the following policies and procedures as part their solicitation and contracting process:

- To incorporate environmental considerations in the evaluation process.
- To increase its fleet of energy efficient vehicles.
- To encourage the selection of sustainable products.
- To seek the selection of recycling and repurposing solutions.

Objective 4: Increase Diversion of Organics

Diversion of Organics

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

There is currently no waste-to-energy or incineration capacity in the region. There is one commercial composting facility which services the region which is supported by multiple haulers. We are supporting a proposed anaerobic digestion facility in the region. There are multiple private sites which process yard waste for mulch and leaf compost production. The Davidson County Solid Waste Region Board in conjunction with Metro Public Works has begun the process of formulating the "Solid Waste Master Plan" a 30-year strategy set with the ultimate goal of striving towards zero waste. Contractors will evaluate local current capacities and how to most effectively utilize these and other potential waste processing methods to achieve the overall goal. A comprehensive waste characterization study will be performed and used to help guide future methodologies.

2025 Statewide Solid Waste and Materials Management Plan Implementation

Please select the strategy(ies) your Region is/are incorporating in the Regional Solid Waste Plan and describe the tactic(s) your Region is/are using to implement. Provide information to businesses and citizens about ways to reduce disposal of food residuals. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement: *

Metro Public Works provides composting education for businesses and residents, and provides a location to purchase back-yard composting and organics digestion supplies all year. Public Works provides educational information on its website, offers educational outreach programs to schools, businesses, and organizations of any type throughout Davidson County. Public Works also donates compost bins and other supplies to public schools in the region wishing to start small scale composting projects. Public Works will continue to support food waste diversion from businesses by maintaining a "Recycling Service Providers" information section on it's "Business Recycling" webpage. The region also plans to support a new anaerobic digestion facility which will be initiated by a non-profit operating initially with state grant funds.

In addition, the Livable Nashville Committee made several recommendations regarding food waste diversion. Metro Public Works is collaborating with the Natural Resource Defense Council and the Nashville Food Project to conduct a restaurant food waste reduction program with local chefs. As part of this program, Metro has partnered with TDEC to organize a round-table discussion on food waste and a meeting with restaurants.

Food waste diversion will also be a key component of the Solid Waste master plan.

Dedicate resources to expand collection, processing, and end use of residential organics. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement: *

All planned dedicated resources for residential organics will focus on backyard composting/digestion, and providing information regarding available commercial services for collection/processing. Metro Public Works will continue its composting and backyard digestion educational efforts, and continue to try to find new ways to encourage residential food waste diversion. The region also plans to support a new anaerobic digestion facility which will be initiated by a non-profit operating initially with state grant funds.

Metro is also looking at options to contract with local food waste collectors and processors to pilot a food waste diversion program within select Metro facilities.

Increase composting/processing of organics generated at county-owned and/or state facilities. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement: *

In 2016 Metro Nashville participated in a food waste study conducted by the Natural Resource Defense Council. This study looked at select Metro buildings and conducted audits. Public Works also provides for diversion of organics at events such as the Nashville Earth Day Festival. Metro is additionally looking at options to contract with local food waste collectors and processors to pilot a food waste diversion program within select Metro facilities.

Provide financial, technical, and/or local ordinance support to implement organics processing at one or more institutions/commercial locations. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement: *

Metro has partnered with the Natural Resource Defense Council and the Nashville Food Project to conduct the Mayor's Food Saver Challenge which encourages and promotes food diversion at restaurants. In addition, Metro is promoting businesses that provide collection and food waste processing services for residents and businesses.

Support organics recovery with updated policy. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement: *

As mentioned above, the region would be interested in supporting policy changes effecting organics once adequate infrastructure is available within the region.

Objective 5: Support New Waste Reduction & Recycling Technology

New Technologies

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

Metro Public Works and the Davidson County Solid Waste Region Board are working toward creating a "Solid Waste Master Plan", a 30-year strategy set with the ultimate goal of moving towards zero waste. This plan will take into consideration our current methods and their levels of efficiency, and evaluate other proven methods currently not in use in the region, such as waste processing technologies, ordinances, educational efforts, and beyond. The recommendations from the plan will be complemented by a comprehensive waste characterization study.

In the coming years, what new waste reduction and recycling technologies will be utilized in your programs? *

The city plans to support a new anaerobic digestion facility which will increase diversion of organics.

2025 Statewide Solid Waste and Materials Management Plan Implementation

Please select the strategy(ies) your Region is/are incorporating in the Regional Solid Waste Plan and describe the tactic(s) your Region is/are using to implement.

Ensure state policy supports new waste reduction and recycling technology. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement: *

We plan to support the anaerobic digestion facility which is being largely funded by state grant funds.

Provide guidance to local government as they consider new waste reduction and recycling technologies. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement: *

We seek and provide guidance wherever needed, and plan to continue providing support and feedback to local composting and reuse organizations as well as other government agencies seeking to strengthen recycling programs.

Work with partners to identify and support projects using new technology that may help achieve state waste diversion and recycling goals. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement: *

We are working with the Natural Resources Defense Council to develop a new food recovery and food waste diversion project in Nashville. This program is run concurrently with a national television commercial campaign, developed by The Ad Council focusing on food waste reduction. The region is working to support the efforts of a local non-profit which seeks to initiate an anaerobic digestion facility in the region.

Objective 6: Expand and Focus Education & Outreach

Program	Sponsor	Type	Target	Attendees	Description
The Adventures of Enviromutt	Metro Public Works/ TDOT	Puppet Show	Children	1001-5000	This program is a 30-minute puppet show provided for PreK - 2nd grade students. The focus of the program is recycling and litter prevention.
Trees Are Terrific/Trees Too!	Metro Public Works/TDOT	Classroom	Children	1001-5000	These are education programs for PreK - 4th grade students which focus on trees, healthy soils, recycling, and litter prevention.
Curby's Recycling Story Time	Metro Public Works/TDOT	Classroom	Children	1001-5000	For this program, a presenter reads children's books which have a recycling and litter prevention message. Students talk about litter and recycling, and get hands-on practice.
Recycling Education Station	Metro Public Works/TDOT	Classroom/ Tour	ALL	501-1000	All Davidson County residents, school groups, neighborhood associations, civic organizations, business groups, etc., and invited to visit the recycling classroom which is located at Metro's contracted materials recovery facility. The program generally lasts about one hour, and visitors learn about litter prevention, neighborhood clean-ups, why recycling is important, how to best participate, and what happens to recyclables after being collected curbside, or at school, business, or other location.
Scout Badge Program	Metro Public Works/TDOT	Classroom/ Community Outreach	Children/ Civic	101-500	Scouts engage in engage in various environmental education and community project to earn the Beautification merit badge. Activities include visiting the recycling center, learning to compost, planting trees/flowers, and performing a neighborhood clean-up.
Compost Bins for Schools	Metro Public Works/TDOT	Classroom	Children	1001-5000	Metro Public Works provides composting education programs for any organization in the region, but for this program, Public Works will donate a compost bin to public schools in the region, or loan a worm compost bin for use at the school in conjunction with the education programs.
Curby's Recycling Roadshow	Metro Public Works/TDOT	Classroom	Children	101-500	This is a reuse and recycling program for elementary and middle school students. Students learn about recycling and why it is important for our environment and community. Students are guided through a reuse art project.

Nashville Beautiful Art Contest	Red River/Metro Public works	Contest	Adult/Children	County-wide	3rd and 4th grade public school students are invited to create a themed two dimensional artwork. The two best from each school are judged by a panel, and the 4 top County-wide winners receive monetary prizes from the school's art program. All work submitted by schools are made into banners which are attached to the sides of Red River collection trucks throughout the year. The trucks even visit the school from which their art was created.
Recycling for Adults	Public Works/TDOT	Classroom	Adult/General Public	501-1000	Public Works offers recycling outreach education programs for businesses, neighborhood associations, places of worship, and any other organizations within the region.
Various Events	Metro Public Works	Community Outreach	Adult/General Public	County-wide	Public Works staffs booths at various events throughout the year which are open to the public. At these events, staff provides booth visitors with recycling information, litter prevention information, and general information about responsible materials management and other services provided by Public Works.
Ring Around the School	Metro Public Works/TDOT	Community Outreach	Children/Educators	1001-5000	For this program we provide supplies for schools to schedule and perform a campus clean-up event. Students learn about neighborhood beautification, litter prevention and recycling.

Please describe the marketing and educational initiatives you plan in the next year.*

We plan to have a strong and growing social media presence on multiple platforms. We advertise on our website, Metro 3 (local government information TV station). We are working with the TN Recycling Coalition to create a series of state-wide radio PSA recordings. Plan to continue working with local radio, news stations, and neighborhood papers to spread information about recycling and various events at which recycling will be a point of focus. Public Works has also distributed recycling information with local water bills reaching all Metro Water Services customers in Davidson County. Public Works is also working with the Natural Resource Defense Council to develop a food recovery and food waste diversion pilot within the region, which will be accompanied by a national TV commercial campaign from The AD Council. Several digital billboards were donated by Lamar Outdoor Advertising for this campaign. There will be information regarding our Future Solid Waste Master Plan, and opportunity for input and feedback from the public through online surveys and public meetings.

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.*

Public Works currently maintains 12 neighborhood recycling drop-off locations, 4 convenience centers two of which are HHW collection sites, and offer curbside recycling to roughly 128,000 residences within the region. We also provide pedestrian-friendly recycling containers for collection in the central business district in downtown Nashville. Metro Government employees operate under a mandatory workplace recycling program. The region has placed material bans for waste containers for cardboard, electronics, and brush. We plan to continue to find ways to increase curbside participation rate and reduce contamination. Because Public Works does not own/operate a landfill or transfer station, there is no conclusive way to know exactly how effective material bans have been. As discussed above, Public Works provides recycling and waste reduction information and educational materials through multiple forms of media, in multiple languages, and in a manner befitting the target age group/demographic. We feel each of these efforts is effective, but as seen above, will continue to explore additional means and partnerships to expand our message of the importance of waste reduction and proper recycling.

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

Public Works attempts to provide appropriate educational programs for all citizens in the region, in many forms, multiple languages, and for all ages groups. As described above, Public Works is attempting to reach all citizens in the region. We feel these efforts are effective, and we continue to find new ways to expand our reach.

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.*

We collect recyclables at 4 convenience centers, 12 neighborhood drop-off sites, 150 pedestrian bins downtown, and all Metro buildings, offer curbside collection to roughly 128,000 residences, provide 4 brush/yard waste collections annually for all single-family homes in the region, and recycle items from bulk item pick-ups offered to all single-family homes in the region. We offer educational materials and outreach presentations through multiple forms of media which we feel are appropriate for reaching the vast majority of the regions residents. There are improvements which we would like to make, such as increasing curbside recycling frequency, but this type of strategic change requires a significant capital investment which the current budget provided cannot support.

Describe your successes in the implementation of your Solid Waste Management Plan. What are you doing well to promote waste reduction:*

We feel the educational efforts are effective, though we continue to find new ways to expand our message to a growing regional population. Recycling availability is at an all-time high given that we now have our 4th convenience center in operation. We support extensive efforts to educate and support reduction and recycling efforts at every stage of waste origination. We also succeed in finding new ways to partner with organizations and businesses to reach regional citizens and schools in creative new ways. For example, we are working with Turnip Green Creative Reuse in its development of reuse and recycling education classes it will provide at its educational studio facility close to downtown Nashville.

2025 Statewide Solid Waste and Materials Management Plan Implementation

Please select the strategy(ies) your Region is/are incorporating in the Regional Solid Waste Plan and describe the tactic(s) your Region is/are using to implement.

Develop a statewide recycling campaign.*

1. Yes
2. No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement:*

We are working with the TN Recycling Coalition to create recycling themed radio PSA-type announcements which will be aired in East TN by Bristol Broadcasting, but will have the potential to be shared state-wide. We are also creating an anti-contamination educational video for use by the region, but will be happy to share with any region within the state who would care to promote it. We are working with the Natural Resources Defense Council on a food recovery and food waste diversion initiative in the hopes of creating a pilot program which could be used as a model in other cities and states. This pilot will run concurrently with a national food waste campaign created by The AD Council and NRDC.

Promote sustainable materials management in Tennessee schools and public institutions.*

1. Yes
2. No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement:*

The above strategies will apply to schools and other institutions as well. We also promote state-wide and national programs created by Keep America Beautiful, such as Recycle Bowl which is an annual school

recycling competition for which schools compete at the local, state, and national levels. All of our education outreach programs are offered to schools within the region at no cost. We also plan to work with the contracted hauler for public schools within the region to find new ways to increase and improve the quality of recyclables at schools in the region.

Promote sustainable materials management to Tennessee businesses.*

1. Yes
2. No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement*

We work with the TN Recycling Coalition which is a network of local and state governments, businesses, citizens, and organizations to promote recycling state-wide. We provide information on our website for businesses looking for service providers who can increase business recycling within the region and beyond.

Promote HHW services to local governments and assist them in promoting HHW and BOPAE collection services.*

1. Yes
2. No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement:*

Public Works currently operates 2 HHW collection points in the region which are both open 7 days per week. Davidson County is the only county in TN which has more than one HHW site, and the only county to have HHW collection available every day. We are more than happy to share our tactics for success and information so other regions might model our success in HHW collection.

Objective 7: Ensure Sufficient & Environmentally Sound Disposal

Solid Waste Planning

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

As mentioned in the Region's 10 Year Plan section 4.10, the biggest weakness of the disposal system is "its reliance on a single, privately-owned transfer station and a single contractor to provide transfer, hauling and disposal services to metro and other local governments for the non-recycled MSW generated in the region." An additional obstacle to the region's disposal system is the lack of any commercial compost options. Probably the most limiting factor is that Metro Public Works only controls a fraction of the waste generated in the county. Approximately 82% of the waste disposed in Class I landfills and all waste disposed in Class III-IV landfills falls outside the control of the department. Every effort is made to reach out to private businesses, institutions, and residents in the General Services District and satellite cities to promote waste reduction and recycling.

In the coming years, how do you plan to handle disposal of waste differently to better address these issues*
Modification to the current system would be dependent on funding.

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

Metro Public Works opened a new convenience center and household hazardous waste facility in the southern part of Davidson County to provide residents in this area of the county with more convenient access to recycling services.

Description of the Municipal Solid Waste Region

State or revise current responsibilities of each local government in the region by jurisdiction.*Each of the local governments (other than the City of Forest Hills) provides trash and recycling service for residents. All residents of Nashville and Davidson County have access to trash and curbside recycling collection either through city funded programs or by contracting directly with a private hauler.

Describe and provide an analysis of the Current Solid Waste Management System within the region.*The majority of the waste collected in Nashville and Davidson County is picked up by either city staff, city contractors or private contractors and is transported to one of two waste transfer stations within the county. The waste transfer stations are owned by Waste Management, Inc. and Republic Services. Class I landfilled waste is then transferred out of the region to privately owned landfills. Recyclable materials are collected by city staff, city contractors, and private contractors and taken to private materials recovery facilities for processing.

Describe current waste collection and transportation systems. Include any expected changes or revisions to this plan.*Waste is collected by a combination of government services and privately contracted services. As mentioned above, the majority of the waste goes to one of the two privately owned waste transfer stations in the county. No changes to this system are expected in the next year.

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

MSW Landfills

- Middle Point Landfill - 6 years
- West Camden Landfill - 35 years
- Cedar Ridge Landfill - 2 years
- Smith County Landfill - 4 years
- Bi-County Landfill - 8 months

C&D Landfills

- Southern Services - 8 years

Waste Stream Estimate

Give approximate percentages of each category of waste that make up your county’s MSW stream.

Residential – 38% Commercial – 42% Institutional – 10% Industrial – 10%

Convenience Centers

1. Convenience Center

East Center

943A Doctor Richard G. Adams Drive, Nashville, TN 37207
(615) 862-8631 Hours: Mon.-Sat. 7:30am-5:00pm and Sun. Noon-4:00pm

Ezell Pike

5113 Harding Place, Nashville, TN 37211
(615) 880-2530 Hours: Mon.-Sat. 7:30am-5:00pm and Sun. Noon-4:00pm

Omohundro

1019 Omohundro Place (entrance on Freightliner Drive), Nashville, TN 37210
(615) 880-1955 Hours: Tue.-Sat.: 8:00am-4:30pm

Anderson Lane Center

939A Anderson Lane, Madison, TN 37115
(615) 860-2588 Hours: Tues.-Sat.: 8:30am-5 pm

Convenience Center Summary

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

In 2015, Davidson County added a fourth convenience center with an HHW facility. The Ezell Pike center is located off of Harding Place in the southeastern part of the county where service had been lacking.

The State of Tennessee will input the number of County Convenience Centers required as computed using this worksheet (click here):

Total number of Convenience Centers present in jurisdiction:4

List Higher Level of Service-Alternative Disposal Collection Systems

Does any local government have curbside waste collection (Higher Level of Service-Alternative Disposal Collection System)?*

- Yes
- No

	Public Collection	Contract Collection	Privately Contracted Collection	Total Percent of Jurisdiction
Davidson County - USD	30%	70%		100%
Davison County – GSD			100%	100%
City of Berry Hill		100%		100%
City of Oak Hill		100%		100%
City of Forrest Hills			100%	100%
City of Belle Meade		100%		100%
City of Goodlettsville		100%		100%

Public Collection (Green Box) - Does your local government have any green boxes?*

- Yes
- No

Transfer Stations - Does your local government have any transfer stations?*

- Yes
- No

Publicly Owned/Operated Landfills - Does your local government have any transfer stations?*

- 1. Yes
- 2. No

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

Yes
No

Provide the total number of reported solid waste complaints: * 23,084

Provide the number of solid waste complaints resolved: * 23,084

Describe the nature of the complaints: *

Missed waste and/or recycling collection by Metro or contracted hauler, cart damage, property damage resulting from waste/recycling/brush collection, general waste or recycling inquiries.

2025 Statewide Solid Waste and Materials Management Plan Implementation

Please select the strategy(ies) your Region is/are incorporating in the Regional Solid Waste Plan and describe the tactic(s) your Region is/are using to implement.

Continue to monitor Class I landfill development, usage, and remaining capacity. *

Yes
No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement:*

Class I, as well as Class III-IV landfill capacity is being monitored regularly to determine if disposal capacity will meet the needs of the region.

Review and consider strengthening environmental regulations/policies relative to solid waste management facilities. *

Yes
No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement:*

The current Davidson County 10 Year Solid Waste Plan which will be replaced by the long-term solid waste master plan, currently includes going above current requirements for landfill liner. The 10 Year Plan requires that all C&D landfills have recycling and both top and bottom liners on any new or expanding C&D landfill.

Continue to address illegal disposal of materials. *

Yes

No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement:*

Addressing illegal dumping and material disposal is an ongoing process. Appropriate disposal of pharmaceuticals is handled through drop boxes located at all Metro Nashville Police Precincts and promoted by Metro Public Works and Metro Water Services. Additionally, Nashville's two household hazardous waste facilities provide not just the access but education on appropriate disposal of household hazardous waste.

In addition to these efforts, Public Works inspectors investigate illegal dumping and can issue citations or take individuals to environmental court.

Objective 8: Develop Sustainable Funding Sources for Sustainable Material Management

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

Please see Objective 7, Solid Waste Planning on "Obstacles to the Solid Waste Disposal System."

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

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

Funding for waste and recycling comes from either the general fund or the solid waste fund. For fiscal year 2017, there are 102 full time and 5 part time employees.

Improvements Remediation

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

No facility improvements are anticipated at this time.

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 but not limited to, convenience centers, transfer stations, active landfills, or landfills in post-closure monitoring: *

These are the monitoring costs incurred in 2016 for the listed landfills.

- Bordeaux Landfill = \$64,422.02(This annual cost will be typical for the foreseeable future)
- Thermal Ash Monofill = \$7,575.47(This annual cost will be typical for the foreseeable future)
- Due West Landfill = \$839.17(Due West LF requires no further monitoring. The included cost is associated with groundwater sewer billing.)
- Lebanon Road Landfill = \$0.00 (Lebanon Road LF is being phased out of the VOAP program, no further monitoring will be required)
- River Hills Landfill = \$8,479.48(This annual cost will be typical for the foreseeable future)

Green Boxes

According to rule 0400-11-01-.10 5(a) requires each county to include in their Annual Progress Report a plan for eventual elimination of collection receptacles or conversion of unmanned collections site to manned convenience centers. Please summarize and describe below the county's plan to eliminate or convert green box site(s) to manned convenience center(s).

Please also describe expenses that may occur during the transition and additional funding needed. *

Davidson County has no Green Box sites. There are 4 staffed convenience centers in the county.

Pay as You Throw

Does your local government have PAYT? *

Yes

No

Financial Information Survey

Expenses

EXPENSE ITEM	AMOUNT (\$)
51000 General Administration	\$3,653,782.66
55731 Waste Pickup	\$9,301,004.39
55739 Other Waste Collection	\$2,276,847.96
55751 Recycling Center	\$1,684,205.03
55752 Compost Center	\$137,384.15
55759 Other Waste Disposal	\$6,863,041.86
55770 Post Closure Care Costs	\$211,892.70
70000 Education	\$179,550.45
TOTAL EXPENSES	\$ 24,307,709.20

Revenues

REVENUE ITEM	AMOUNT (\$)
40000 Local Taxes	\$18,562.88
43108 Convenience Center Waste Collection Charge	600,446.91
43112 Surcharge - Host Agency	\$4,475,686.00
44145 Sale of Recyclables	\$128,361.40
46170 Solid Waste Grants	\$635,834.07
48000 - Other Governments and Citizens Groups	\$610,239.28
49800 - Transfer from General Fund	\$17,426,100.00
TOTAL REVENUES	\$ 23,895,230.54

2025 Statewide Solid Waste and Materials Management Plan Implementation

Please select the strategy(ies) your Region is/are incorporating in the Regional Solid Waste Plan and describe the tactic(s) your Region is/are using to implement.

Consider increasing tipping fee surcharges on disposed solid waste.*

1. Yes
2. No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement*

Current fees will be considered as part of the long-term solid waste master plan.

Raise revenue for waste reduction, recycling, and integrated solid waste management from new sources.*

1. Yes
2. No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement*

Methods to increase revenue will be considered as part of the long-term solid waste master plan.

Support the development of sustainable funding strategies for local programs.*

1. Yes
2. No

Describe your tactic that is planned to be implemented, who are the responsible parties and the target date of achievement*

The region supports any efforts on the part of the State to develop sustainable funding strategies.

Disaster Debris Management

Does your local government have a Disaster Debris Management Plan?*

1. Yes
2. No

Is the Plan Modeled after FEMA's PA325 Plan?*

1. Yes
2. No

Has it been accepted by TEMA and FEMA?*

1. Yes
2. No

Are pre-event contracts in place? *

1. Yes
2. No

With whom and for what service:*DRC Emergency Services, LLC - removal of disaster related debris

Are staging areas identified?*

1. Yes
2. No

Where?*

Staging areas are dependent on the nature of the debris to be managed. There are three mixed debris staging areas: 1. Donelson/BNA 2. Warner Park 3. Metro Center 4. Metro Contractor Nature's Best property on Elm Hill Pike 5. Metro Contractor Nature's Best property on Centennial Blvd.

How is Waste Reduction and Diversion addressed in the local disaster debris management plan?*Where possible wood waste and metal items are collected separately for recycling.

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

We had none in 2016.

Landfill Report

MSW Landfilled Tons	2015	2016
West Camden (WMI)	87,757.15	114,656.68
Meadow Branch Landfill	106.13	
Bi-County Landfill	8,440.93	3,282.92
Middle Point (Allied)	446,446.08	528,706.14
Cedar Ridge Landfill	181,729.45	232,486.94
Smith County Landfill	3,113.55	5,905.07
Decatur County Landfill	13.12	7.73
North Shelby Landfill	6.19	
Rhea County		1.74
Southern Sanitation	29,711.28	
Volunteer Regional Landfill	8.46	
TOTAL	757,332.34	885,047.22

C&D Landfilled Tons	2015	2016
MS-COT:	6,130	6,055
Southern Services:	273,171	344,120
TOTAL	279,301	350,175

Recycling Report

Private Recycling Programs	2015 Tons	2016 Tons
Batteries & Automotive Fluids	1,288.92	836.84
C&D Recycling	11,035.00	3,093.15
Cardboard	18,107.81	21,316.86
Carpet/Pad	4,800.00	4,817.00
Food Waste	7,520.70	750.00
Glass	35,408.75	18,435.22
Grease	7,172.80	8,012.00
Metal	113,338.27	94,984.61
Mixed Recyclables	3,200.21	14,067.80
Paper	15,226.51	21,264.59
Plastic	18,379.87	479.66
Textiles	6,288.00	7,083.00
TOTAL	241,766.84	195,140.73

Public Recycling Programs	2015 Tons	2016 Tons
Automotive Fluids	18.76	37.66
Cardboard	1,930.38	2,273.13
Carpet/Pad/Textiles	268.21	106.58
E-Waste	117.50	218.47
Glass	2,236.78	2,282.41
Grease	6.77	7.80
HHW/Batteries	49.89	33.26
Metals	465.78	674.41
Mixed Plastic/Metal	820.05	831.74
Mixed Recyclables	13,036.79	13,219.46
Paper	2,344.23	2,176.39
Tires	6,761.36	7,327.61
Wood	50,141.41	53,319.47
TOTAL	78,197.91	82,508.39