

Section 7

A Statement of District Goals that are Consistent with the State Plan

All sixteen counties of the East Tennessee Development District (ETDD) have the goals of providing the best options of waste and recycling collection for their residents that are financially feasible and of increasing the volume of recyclable materials collected. ETDD staff works with the county solid waste staffs to ensure that their waste disposal and recycling goals are being met by helping apply for grant funding for needed equipment and facilities, by finding recycling processors as needed, and by engaging in planning activities to set appropriate milestones for achieving goals. During FY 2019/2020, ETDD solid waste staff worked with Campbell, Cocke, Grainger, Hamblen, Monroe, Morgan, Scott, and Union Counties to set goals for their solid waste programs and outline five-year plans for achieving those goals. The plans for these counties are outlined below:

Campbell County

The Campbell County Solid Waste Region currently has three major goals:

1. Increased waste reduction
2. Upgraded convenience centers
3. Increased public education

The main goal of the Campbell County solid waste program is to increase their waste reduction efforts. They plan to achieve this goal through three possible avenues: increased volume of recycled materials processed, potentially beginning a composting program, and purchasing a wood chipper to begin chipping collected brush into mulch. The County will increase the volume of recycled materials processed through efforts at public education to both increase the amount residents recycle and decrease the level of contamination in residential recycling. They will also decrease the level of contamination by upgrading the open top recycling collection containers at their convenience centers to include separators for different material types and cardboard collection containers requiring the cardboard be inserted through a slot. Campbell County also wants to begin investigating options for starting a composting program to be housed at the Towe String Road recycling facility. Food scraps and other compostable materials would be separated and processed as compost at the site. This project is in very early planning stages and will require significant grant funding in order to become reality. Campbell County is also investigating waste reduction through purchasing a wood chipper to chip brush into mulch. This project will also rely on grant funding. The second major goal of Campbell County's solid waste program is to make improvements to their convenience centers. In addition to the upgraded recycling collection containers mentioned above, they plan to upgrade their convenience centers with compactors. The county solid waste director believes that compactors will help eliminate the bear infestation currently affecting Campbell County's convenience centers, particularly at Oswego, where the bears at the convenience center have lately featured prominently in regional news. Other planned upgrades include paving at all sites, where the cracked, old paving is becoming a safety hazard, and fencing at the Vasper Convenience Center. All these planned improvements will be heavily reliant on grant funding. Additionally, Campbell County has the goal of increasing their public

education, not just with the efforts mentioned above, but also with an in-school program at the County's elementary and middle schools. Campbell County's Environmental Service Director is examining options for curriculum and is designing a "Garbage Gorilla" mascot that will be used to visit schools and public events. Below are presented three 5-year plans for achieving each of Campbell County's solid waste program goals and a listing of potential grants for which Campbell County may apply listed by fiscal year.

Increase waste reduction: Campbell County plans to increase their efforts at waste reduction.

Year	Action(s)
1 FY 20/21	Examine options for waste reduction. Examine markets for wood chips and explore needed equipment. Apply for Composting Grant for funding of wood chipper. Examine options for composting program. Apply for Convenience Center Grant to fund new collection containers.
2 FY 21/22	Begin chipping wood and send material to market. Begin using new recycling collection containers at convenience centers. Apply for grant funding for composting if deemed an appropriate program.
3 FY 22/23	Conduct an evaluation of the first year of the wood chipping program and analysis of contamination levels since utilizing new containers. Begin composting program if funded.
4 FY 23/24	Continue evaluating all programs. Apply for grant funding for any needed collection or processing equipment.
5 FY 24/25	Continue evaluating all programs. Apply for grant funding for any needed collection or processing equipment.

Upgrade convenience centers: Campbell County plans to make improvements to their convenience centers prioritized by issues of safety.

Year	Actions
1 FY 20/21	Apply for Convenience Center Grant to pave at convenience centers, prioritized in the order of need. Examine grant funding opportunities for compactors.
2 FY 21/22	After securing grant funding, pave at convenience center sites. Apply for Convenience Center Grant to fund paving at any sites that still need paving (if grant funding cannot cover all sites). Apply for Convenience Center Grant to fund fencing at Vasper Convenience Center if it fits into grant budget. Examine grant funding opportunities for compactors.
3 FY 22/23	After securing grant funding, pave at convenience center sites. Apply for Convenience Center Grant to fund paving at any sites that still need paving (if grant funding cannot cover all sites). Apply for Convenience Center Grant to fund fencing at Vasper Convenience Center if it fits into grant budget and has not already been installed. Examine grant funding opportunities for compactors.

4 FY 23/24	Apply for Convenience Center and Recycling Equipment Grants to fund any needed collection containers.
5 FY 24/25	Conduct site analysis of all convenience centers and prioritize needs for the next five years.

Increase public education: Campbell County plans to increase their public education efforts through public outreach to decrease recycled material contamination rates and through in-school programs in elementary and middle schools.

Year	Actions
1 FY 20/21	Plan for public outreach efforts to increase recycling volume and decrease contamination rates. Plan elementary school program and develop “Garbage Gorilla” mascot. Apply for Education & Outreach Grant to fund household mailers, oops tags, and elementary in-school program.
2 FY 21/22	Begin public outreach campaign. Send out household mailers and begin deploying oops tags. Begin elementary school education program. Begin utilizing “Garbage Gorilla” mascot in schools. Develop program for middle schools.
3 FY 22/23	Conduct year one evaluation of public outreach campaign. Conduct year one evaluation of elementary school program. Make any needed adjustments. Apply for Education & Outreach Grant to fund middle school program.
4 FY 23/24	Begin middle school program. Conduct year two evaluation of elementary school program.
5 FY 24/25	Conduct year three evaluation of elementary school program. Conduct year one evaluation of middle school program. Evaluate expanding education program to high schools. Apply for Education & Outreach Grant to fund any needed materials for in-school programs.

Grants: Below are potential grants that Campbell County may pursue over the next five years as they attempt to meet their goals.

Fiscal Year	Grant
20/21	Convenience Center Grant to fund recycling collection containers and paving.
20/21	Composting Grant to fund wood chipper.
20/21	Recycling Equipment Grant to fund recycling collection containers.
20/21	Education & Outreach Grant to fund public outreach materials and elementary in-school program.
20/21	Waste Reduction Grant to fund wood chipper and possibly composting program.

21/22	Convenience Center Grant to fund paving and/or fencing.
21/22	Composting Grant to fund composting program.
22/23	Convenience Center Grant to fund paving and/or fencing.
22/23	Education & Outreach Grant to fund middle school program.
23/24	Convenience Center Grant to fund paving and/or fencing.
23/24	Recycling Equipment Grant to fund recycling collection containers.
24/25	Education & Outreach Grant to fund any needed materials for in-school programs.

Cocke County

The Cocke County Solid Waste Region currently has four major goals:

1. Upgrade convenience centers
2. Become self-sufficient in solid waste operations
3. Establish HHW collection facility
4. Establish programs to process problem materials of brush and mattresses

The primary goal of the Cocke County solid waste program is to upgrade their ten convenience centers. This goal is complicated by the fact that Cocke County does not own the property for all their convenience center sites. The county is thusly undertaking an effort to discern which properties may be available to purchase and at what price. Once property prices are determined, Cocke County will likely apply for Convenience Center Grants to assist with purchasing the needed sites. Additionally, the convenience centers are all in need of paving repairs, connections to existing water lines, signage, and fencing. All convenience centers also need new recycling collection containers to replace the aged, severely damaged containers currently in use. Cocke County will seek a combination of Convenience Center, Recycling Equipment, and Education & Outreach Grants to aid in funding these upgrades. Another major goal of Cocke County is to become self-sufficient in their solid waste operations, buying their own truck(s) and not relying on long-term contracts to guarantee recycling and waste hauling to processors/landfill. They hope to find help in achieving this goal by partnering with Grainger County in a hub and spoke model. Grainger County is planning to apply for official recycling hub status, and Cocke County hopes to become an official spoke to Grainger's hub. Cocke County will then apply for Spoke Grants to assist with purchasing a truck to haul recyclables to Grainger County and containers for collecting recyclables. Cocke County also needs a front loader for helping load the white goods collected at the landfill into containers to be sent off for processing, and they may utilize a Spoke Grant or Waste Reduction Grant to assist with this purchase. Additionally, Cocke County has the goal of opening a household hazardous waste collection site. According to the County's solid waste director, a staggering amount of HHW is brought by residents for disposal, but the County must turn this material away. They plan to apply for a Household Hazardous Waste Grant to construct a temporary HHW storage site and coordinate with TDEC for the collection of HHW materials. Further, Cocke County has the goal of establishing programs to process what are their two biggest problem materials: brush and mattresses. Many residents of Cocke County burn their brush, but the unseasonably dry weather has caused burning bans. Illegal dumping of brush has

significantly increased, and the County’s waterways, including the French Broad, Big Pigeon, and Nolichucky Rivers, are inundated with logs and wood debris. Cocke County plans to apply for a Waste Reduction Grant to purchase a wood chipper that will allow them to begin collecting brush at their landfill, where the brush can be chipped into mulch that will be used at County properties and given away to residents. Mattresses also present a problem for the County, as large quantities of mattresses are dropped off at the landfill for disposal. These mattresses take up significant space in the landfill, and Cocke County wishes to divert this material from disposal. They plan to start a program for mattress recycling, whereby the mattresses will be disassembled, recycled, and possibly reused at alternate cover for the landfill. Cocke County will apply for a Waste Reduction Grant to assist with purchasing any needed equipment for this program. Below are presented four plans for achieving each of Cocke County’s solid waste program goals and a listing of potential grants for which Cocke County may apply listed by fiscal year.

Upgrade Convenience Centers: Cocke County plans to purchase the property they currently do not own where they have convenience centers and to upgrade the paving, fencing, infrastructure, and signage at all their sites.

Year	Action(s)
1 FY 20/21	Conduct assessment of convenience centers and prioritize needed upgrades. Determine which convenience centers can be purchased and at what price. Apply for Convenience Center Grant to purchase property and make upgrades. Apply for Recycling Equipment and Education & Outreach Grants to purchase needed equipment and signage.
2 FY 21/22	After securing grant funding, purchase sites and make upgrades. Prioritize remaining properties needed for purchase and needed upgrades.
3 FY 22/23	Apply for Convenience Center Grant to purchase property and make upgrades.
4 FY 23/24	After securing grant funding, purchase sites and make upgrades. Prioritize remaining properties needed for purchase and needed upgrades.
5 FY 24/25	Apply for Convenience Center Grant to purchase property and make upgrades.

Become self-sufficient in solid waste operations: Cocke County plans to purchase their own truck(s) and equipment, so they are not reliant on long-term contracts to guarantee recycling and waste hauling to processors/landfill. Reaching this goal will not take as long as others.

Year	Actions
1 FY 20/21	Examine hub/spoke model with Grainger County. Apply for official spoke status. After achieving spoke status, apply for Spoke Grant to purchase recycling collection containers and truck.

2 FY 21/22	After securing grant funding, purchase containers and truck. Begin transporting recyclables to Grainger County recycling hub. Begin transporting materials to landfill.
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Establish HHW collection facility: Cocke County plans to address the massive amount of HHW generated by their residents by opening a temporary HHW collection facility.

Year	Actions
1 FY 20/21	Develop HHW project and plan for site and facility. Apply for HHW Grant.
2 FY 21/22	After securing grant funding, purchase storage container for storage building and open HHW collection facility.

Establish programs to handle problem materials: Cocke County plans to establish programs to process what are their two biggest problem materials: brush and mattresses.

Year	Actions
1 FY 20/21	Prioritize community needs and develop programs to deal with problem materials.
2 FY 21/22	Apply for Waste Reduction Grant to fund purchase of equipment to process whichever material is deemed most urgent during the planning phases.
3 FY 22/23	After securing grant funding, purchase needed equipment. Begin processing problem material. Plan for next project to handle the other problem material.
4 FY 23/24	Conduct evaluation of first year of program. Apply for Waste Reduction Grant to purchase needed equipment to process the other problem material.
5 FY 24/25	After securing grant funding, purchase needed equipment. Begin processing problem material.

Grants: Below are potential grants that Cocke County may pursue over the next five years as they attempt to meet their goals.

Fiscal Year	Grant
20/21	Convenience Center Grant to fund site purchases and convenience center upgrades.
20/21	Education & Outreach Grant to fund signage at convenience centers.
20/21	Recycling Equipment Grant to fund needed equipment at convenience centers.
20/21	Spoke Grant to purchase truck and recycling collection containers.

20/21	HHW Grant to establish temporary HHW collection site.
21/22	Waste Reduction Grant to purchase equipment to process problem material.
22/23	Convenience Center Grant to fund site purchases and convenience center upgrades.
23/34	Waste Reduction Grant to purchase equipment to process problem material.
24/25	Convenience Center Grant to fund site purchases and convenience center upgrades.

Grainger County

The Grainger County Solid Waste Region currently has four major goals:

1. Pursue recycling hub status
2. Increase public education
3. Relocate the Washburn Convenience Center
4. Upgrade convenience centers

The primary goal of the Grainger County solid waste program is to pursue becoming an officially recognized recycling hub. The Grainger County recycling facility currently processes materials from five counties: Grainger, Hamblen, Hawkins, Jefferson, and Sevier. Waste Industries utilizes the Grainger County recycling facility as the processor for their private collection routes in the counties mentioned above, and an increasing number of private companies, including the Grainger Farmers Co-Op, Dalton Hydraulic Cylinders, and Clayton Homes, are sending materials to Grainger County's recycling processing facility. Please see the map on page five showing sources of recyclable materials coming to Grainger County for processing. Grainger County saw a 41% increase in the tonnage of recyclables they processed from 2017 to 2018, and they anticipate a similar increase after the 2019 calendar year. Impressively, this program growth is occurring with very limited equipment for processing. They currently utilize two small vertical balers and have limited storage space. Grainger County is already operating as a recycling hub, and they plan to pursue becoming an officially recognized hub, giving them access to Hub Grants to fund much needed equipment purchases, such as a large horizontal baler and conveyor system. Please see page six for a visual of the recycling facility and proposed upgrades. Additionally, Grainger County set the goal of increasing their public education efforts over the next five years. They want to increase their residents' participation rates in recycling and raise public awareness once they receive official hub status. They also plan to begin an in-school recycling/waste reduction education program that will supplement the recycling collection that began at all county schools in the 2019/20 school year. They will likely seek grant funding for public outreach materials and educational materials for an in-school program. Further, Grainger County set the goal of relocating the Washburn Convenience Center. Construction on a new baseball field complex directly next to this site began in 2019, with elevation changes subsequently resulting in multiple flooding events at the convenience center. Washburn residents now consider the convenience center unsightly and are also requesting that it be relocated. Grainger County will be heavily reliant on grant funding to relocate the Washburn Convenience Center. In addition to

relocating the Washburn Convenience Center, Grainger County set the goal of making improvements to their other convenience centers, including replacing aged paving, attendant shelters, and recycling collection containers. Below are presented four 5-year plans for achieving each of Grainger County's solid waste program goals and a listing of potential grants for which Grainger County may apply listed by fiscal year.

Become an official recycling hub: Grainger County plans to achieve recognized hub status.

Year	Action(s)
1 FY 20/21	Explore becoming an official hub. Meet with TDEC to determine necessary procedure. Apply for hub status and follow required steps. Approach Cocke County to offer hub-spoke operating relationship. Develop inventory of equipment and facility upgrades needed to become a more efficient hub.
2 FY 21/22	After achieving official hub status, apply for Hub Grant funding for a horizontal baler and conveyor system, a storage building, and any other needed upgrades determined during the Year 1 investigation. Explore options for expanding hub to receive materials from new communities.
3 FY 22/23	Conduct evaluation of first year operating as an official hub. Explore options for expanding hub to receive materials from new communities and businesses.
4 FY 23/24	Conduct evaluation of second year operating as an official hub. Apply for grant funding for any needed processing or collection equipment.
5 FY 24/25	Conduct evaluation of third year operating as a hub. Explore options for expanding hub to receive materials from additional communities and businesses.

Increase public education: Grainger County plans to increase recycling rates among their residents, bring attention to their status as a hub once achieved, and begin an in-school recycling education program.

Year	Actions
1 FY 20/21	Plan public education efforts. Evaluate options for expanded social media presence. Develop in-school recycling education program for elementary and middle schools. Apply for Education & Outreach Grant to fund in-school program and public outreach materials.
2 FY 21/22	After receiving grant funding: <ul style="list-style-type: none"> • Begin in-school program. • Begin public outreach campaign. Research local media partners for advertising hub status.
3 FY 22/23	Conduct evaluation of first year of in-school program. Conduct evaluation of public outreach campaign.

	Begin advertising recycling hub through local radio, newspapers, and television.
4 FY 23/24	Conduct evaluation of second year of in-school program. Examine feasibility of expanding in-school program to high schools. If deemed appropriate, develop in-school program for high school. Apply for Education & Outreach Grant to fund high school program
5 FY 24/25	Begin high school program. Conduct evaluation of third year of elementary and middle school program. Evaluate public outreach needs for next

Relocate the Washburn Convenience Center: Grainger County plans to relocate the Washburn Convenience Center to a nearby location after construction of a new baseball park began causing flooding at the site and residents of the community began complaining about proximity of the park to the convenience center. This project will not require a five-year timeline.

Year	Actions
1 FY 20/21	Plan for movement of Washburn Convenience Center. Determine infrastructure needs of new site. Determine collection equipment needs of new site. Apply for Convenience Center and Recycling Equipment Grants to fund moving convenience center.
2 FY 21/22	After receiving grant funding, begin infrastructure upgrades at new site. Purchase all new needed equipment. Move any salvageable equipment from existing site. Open convenience center at new site.

Upgrade convenience centers: Grainger County plans to upgrade their convenience centers with updated paving, new attendant shelters, and new recycling collection containers as needed.

Year	Actions
1 FY 20/21	Conduct assessment of convenience centers to determine greatest areas of need. Prioritize infrastructure and equipment needs. Apply for Used Oil Grant to fund needed equipment at recycling center and Blaine Convenience Center.
2 FY 21/22	Apply for Convenience Center Grant to fund upgrades prioritized as most important. After receiving grant funding, install used oil equipment at recycling facility and Blaine Convenience Center.
3 FY 22/23	After receiving grant funding, make upgrades to convenience centers. Apply for Recycling Equipment Grant to fund any needed collection equipment.
4 FY 23/24	After receiving grant funding, install collection equipment at convenience centers.

	Apply for Convenience Center Grant to fund any remaining upgrades at convenience centers
5 FY 24/25	After receiving grant funding, make upgrades to convenience centers. Conduct assessment of convenience centers to determine and prioritize needs over the next five years.

Grants: Below are potential grants that Grainger County may pursue over the next five years as they attempt to meet their goals.

Fiscal Year	Grant
20/21	Convenience Center Grant to fund moving Washburn Convenience Center.
20/21	Education & Outreach Grant to fund public outreach materials and elementary and middle school recycling education programs.
20/21	Used Oil Grant to fund equipment at recycling facility and Blaine Convenience Center.
21/22	Hub Grant to fund horizontal baler and conveyor system and storage building.
21/22	Convenience Center Grant to fund improvements to convenience centers.
22/23	Recycling Equipment Grant to fund needed equipment at convenience centers.
23/24	Hub Grant to fund any needed processing or collection equipment.
23/24	Education & Outreach Grant to fund high school recycling education program
23/24	Convenience Center Grant to fund any needed improvements at convenience centers.

Hamblen County

The Hamblen County Solid Waste Region currently has three major goals:

1. Expand public education and outreach efforts
2. Explore options for increased waste diversion
3. Explore options for the landfill

The primary goal of the Hamblen County solid waste program is to expand their public education and outreach efforts. This goal involves keeping the public informed about proper recycling and changes to collection. Glass contamination in curbside recycling collection bins continues to be a problem, along with general contamination of recyclable materials. Bulk waste litter along rural roadways is becoming a bigger problem. Morristown is transitioning to automated trucks for curbside collection, and as the County expands the convenience center located at the landfill, keeping residents educated on the services available is essential. Public education/outreach efforts may include mailers, social media outreach, and local media advertisements. Hamblen County may apply for Education & Outreach Grants to fund some of their public outreach efforts. Additionally, Hamblen County has the goal of exploring options for increased waste diversion. Brush is currently burned at the landfill in a pit burner, but this system may not always be used. Hamblen County plans to explore options for

beginning a mulching program, perhaps including purchase of a tub grinder. To prevent landfill disposal of potentially useful material, they also plan to explore concrete and rock crushing for possible reuse as aggregate. Waste Reduction Grants or Recycling Equipment Grants may be utilized to fund some equipment purchases for these projects. Further, Hamblen County has the goal of exploring options for their landfill. As they consider closing three cells, they are making plans to open a new cell. These projects will be funded through the operating budget of the Morristown/Hamblen County Solid Waste Board.

Below are presented plans for achieving each of Hamblen County’s solid waste program goals and a listing of potential grants for which Hamblen County may apply listed by fiscal year.

Expand public education and outreach efforts: Hamblen County plans to increase their public outreach efforts as changes to collection happen and available services increase. Efforts to decrease contamination of recyclables are also central to future plans.

Year	Actions
1 FY 20/21	Investigate programs in other counties. Contact other counties, such as Knox, to get information on public outreach to decrease contamination.
2 FY 21/22	Plan outreach program. Apply for Education & Outreach Grant.
3 FY 22/23	Begin outreach program after receiving funding. Evaluate expanding program to include any changes to collection or new services offered.
4 FY 23/24	Conduct year one evaluation to determine program effectiveness. Apply for Education & Outreach Grant to expand program to cover new areas of need.
5 FY 24/25	Begin new outreach program after receiving funding. Evaluate program success and consider options for future education and outreach efforts.

Explore options for increased waste diversion: Hamblen County plans to explore ways of reusing materials and lessening the amount of material being landfilled.

Year	Actions
1 FY 20/21	Prioritize community needs and develop programs to reuse materials.
2 FY 21/22	Apply for Waste Reduction Grant to fund purchase of equipment to process whichever material is deemed most urgent during the planning phases.
3	After securing grant funding, purchase needed equipment. Begin processing targeted material.

FY 22/23	Plan for next project to handle other identified material(s).
4 FY 23/24	Conduct evaluation of first year of program. Apply for Waste Reduction Grant to purchase needed equipment to process the other identified material(s).
5 FY 24/25	After securing grant funding, purchase needed equipment. Begin processing material(s).

Explore options for landfill: Hamblen County plans to close up to three cells of the landfill and potentially open a new cell.

Year	Actions
1 FY 20/21	Determine number of cells to close. Begin closing cells. Determine feasibility of opening new cell.
2 FY 21/22	Continue closing cells and open new cell if deemed necessary.

Grants: Below are potential grants that Hamblen County may pursue over the next five years as they attempt to meet their goals.

Fiscal Year	Grant
21/22	Education & Outreach Grant to fund public outreach campaign.
21/22	Waste Reduction Grant to purchase equipment to process material for reuse.
23/24	Education & Outreach Grant to fund public education campaign.
23/34	Waste Reduction Grant to purchase equipment to process material(s) for reuse.

Monroe County

The Monroe County Solid Waste Region currently has three major goals:

1. Build two new convenience centers
2. Upgrade their existing convenience centers
3. Develop parks and other public greenspace at the old closed landfill

As their population continues to grow in different areas of the county, Monroe County plans to open two new convenience centers to serve the residents of Vonore and the Coker Creek community. Residents of Vonore currently use a minimally-sized convenience center located at the County's transfer station. This dual use of the facility is deemed unsafe by both Monroe County and Waste Connections, who is contracted to operate the transfer station. The County plans to open a new, larger convenience center at a separate location in Vonore. This is their biggest priority, followed closely by opening a new convenience center in the Coker Creek Community. All residents in

southern Monroe County use the Tellico Convenience Center, which is becoming too small for the growing population. Opening a new convenience center on county-owned property in Coker Creek will provide residents with another option for waste and recyclable drop off, alleviating the burden on the Tellico site. For these plans to become reality, Monroe County will be heavily reliant on grant funding. In addition to opening two new convenience centers, a major goal of Monroe County is to upgrade their four existing convenience centers. The first planned upgrade is paving at each center, prioritized on the basis of need: 1. Sweetwater, 2. Tellico, 3. Madisonville, and 4. Little Notchy Creek. After the paving is completed, Monroe County will prioritize any needed upgrades to their existing convenience centers and make improvements where fiscally conceivable with the expenses of opening the two new centers. The third goal Monroe County hopes to achieve within the next five years is opening parks and public greenspace at the old landfill site, approximately 200 acres in the Little Notchy Creek community owned by the County. This project is in the early planning phase, and ideas for uses include soccer fields, shooting ranges, dog parks, and biking and hiking trails. Monroe County will pursue a combination of state, federal, and private grants to fund this project. Below are presented three 5-year plans for achieving each of Monroe County's solid waste program goals and a listing of potential grants for which Monroe County may apply listed by fiscal year.

Open two new convenience centers: Monroe County plans to open new convenience centers in Vonore and the Coker Creek community.

Year	Action(s)
1 FY 20/21	Plan for new convenience center in Vonore. Develop site plan. Develop project budget. Secure matching funds for grants.
2 FY 21/22	Apply for Convenience Center, Recycling Equipment, Used Oil, and Education & Outreach Grants to assist with funds for opening new convenience center in Vonore.
3 FY 22/23	Begin work on new convenience center in Vonore. After securing grants, finish work and open Vonore Convenience Center. Begin planning new convenience center in Coker Creek. Develop site plan.
4 FY 23/24	Apply for Convenience Center, Recycling Equipment, Used Oil, and Education & Outreach Grants to assist with funds for opening new convenience center in Coker Creek. Conduct a year one evaluation of the Vonore Convenience Center.
5 FY 24/25	Begin work on new convenience center in Coker Creek. After securing grants, finish work and open Coker Creek Convenience Center. Conduct a year two evaluation of the Vonore Convenience Center.

Upgrade existing convenience centers: Monroe County plans to make improvements to their four existing convenience centers at Sweetwater, Little Notchy Creek, Tellico, and Madisonville.

Year	Actions
1 FY 20/21	Apply for Convenience Center Grant to pave at the four existing convenience centers, prioritized in the order of Sweetwater, Tellico, Madisonville, and Little Notchy Creek.
2 FY 21/22	After securing grant funding, pave at existing convenience center sites. Conduct biannual convenience center assessment. Prioritize any needed equipment at four existing sites.
3 FY 22/23	Apply for recycling equipment grant to secure any needed equipment.
4 FY 23/24	Conduct biannual convenience center assessment. Prioritize needed equipment at five convenience centers.
5 FY 24/25	Apply for grant funding to secure any needed equipment.

Install parks and greenspace at old landfill: Monroe County plans to give new life to the old closed landfill site, which at approximately 300 acres can host an array of parks/uses.

Year	Actions
1 FY 20/21	Plan for parks and greenspace uses at old landfill. Meet with stakeholders. Form any necessary boards and committees. Meet with East TN Design Center to create site design.
2 FY 21/22	Begin applying for grants to create parks and greenspace. Grants will likely come from a combination of state, federal, and private sources. Funding may also come from local industries.
3 FY 22/23	Open first phase of park/greenspace. Continue expanding parks and applying for grants to fund planned uses.
4 FY 23/24	Open second phase of park/greenspace. Continue expanding parks and applying for grants to fund planned uses.
5 FY 24/25	Open third phase of park/greenspace. Continue expanding parks and applying for grants to fund planned uses.

Grants: Below are potential grants that Monroe County may pursue over the next five years as they attempt to meet their goals of opening new convenience centers and upgrading existing sites.

Fiscal Year	Grant
20/21	Convenience Center Grant
21/22	Convenience Center Grant to fund infrastructure for new site in Vonore.
21/22	Recycling Equipment Grant to fund containers for new site in Vonore.

21/22	Used Oil Grant for oil collection at new site in Vonore and for any other needed used oil collection equipment.
21/22	Education & Outreach Grant to fund public outreach efforts for increased recycling education.
23/24	Convenience Center Grant to fund infrastructure for new site in Coker Creek.
23/24	Recycling Equipment Grant to fund containers for new site in Vonore.
23/24	Used Oil Grant for oil collection at new site in Coker Creek and for any other needed used oil collection equipment.

Morgan County

The Morgan County Solid Waste Region currently has three major goals:

1. Upgrade convenience centers
2. Reduce hauling of Class IV waste
3. Upgrade equipment across all solid waste programs

The primary goal of the Morgan County solid waste program is to upgrade nine convenience centers. This goal is complicated by the fact that Morgan County does not own the property for all their convenience center sites. The county is undertaking an effort to discern which properties may be available to purchase and at what price and which properties are available for long-term (e.g. 99 years) leases. Once property availability and prices are determined, Morgan County may apply for Convenience Center Grants to assist with purchasing available sites. Additionally, the convenience centers are all in need of paving repairs and signage, and all sites require new recycling collection containers to replace the aged, severely damaged containers currently in use. Both new fencing and attendant shelters are needed at the Lancing, Deer Lodge, Frankfurt, and Chestnut Ridge Convenience Centers, and the Brewstertown Convenience Center needs new fencing. County solid waste staff conducted a full assessment of all sites using an assessment form created by the East Tennessee Development District; the completed form is attached as page 4 of this report. The completed assessment also determined that the Deer Lodge and Frankfurt Convenience Centers also need compactors. Morgan County will seek a combination of Convenience Center, Recycling Equipment, and Education & Outreach Grants to aid in funding these upgrades. Another major goal of Morgan County is to reduce the hauling of Class IV waste. The smaller size of the Class IV collection containers at the convenience centers and the trailers the County must use to transport the material require frequent trips from convenience centers to the landfill. The transportation costs are prohibitive for a rural, distressed county like Morgan, and reducing these costs will allow funds to be better utilized toward ends like the 10% match required for grants. Utilizing roll off containers of a larger size for collection would allow Morgan County to utilize their existing truck for pickup and to make less frequent trips. Morgan County may apply for Waste Reduction grants to help fund equipment purchases. Furthermore, Morgan County has the goal of upgrading equipment across all their solid waste programs. In addition to the convenience center upgrades and recycling collection equipment discussed above, Morgan County also needs a skid steer and recycling

trailers for use at the recycling facility. This equipment would eliminate the manpower needed to maintain the equipment currently in use, which places a significant burden on the recycling staff. The Morgan County Landfill also needs a front loader, a track hoe, and a bulldozer. The equipment currently used at the landfill is aged (approximately 25 years old) and requires significant financial resources (estimated around \$50,000/year) and manpower to maintain an ever-diminishing level of utility. Replacing this equipment will allow Morgan County to put the excessive maintenance expense to better use within their solid waste programs. Morgan County will collaborate with the East Tennessee Development District to seek funding for this equipment.

Below are presented plans for achieving each of Morgan County’s solid waste program goals and a listing of potential grants for which Morgan County may apply listed by fiscal year.

Upgrade Convenience Centers: Morgan County plans to purchase the property they currently do not own where they have convenience centers and to upgrade the paving, fencing, infrastructure, and signage at all their sites.

Year	Action(s)
1 FY 20/21	After determining which convenience centers can be purchased and at what price, prioritize needed upgrades. Apply for Convenience Center Grant to purchase property and make upgrades. Apply for Recycling Equipment and Education & Outreach Grants to purchase needed equipment and signage.
2 FY 21/22	After securing grant funding, purchase sites and make upgrades. Prioritize remaining properties needed for purchase and needed upgrades.
3 FY 22/23	Apply for Convenience Center Grant to purchase property and make upgrades.
4 FY 23/24	After securing grant funding, purchase sites and make upgrades. Prioritize remaining properties needed for purchase and needed upgrades.
5 FY 24/25	Apply for Convenience Center Grant to purchase property and make upgrades.

Reduce hauling of Class IV waste: Morgan County plans to purchase plans to purchase large roll off containers to replace the Class IV waste collection containers currently used. Reaching this goal will not take as long as others.

Year	Actions
1 FY 20/21	Prioritize container need based on frequency of needed pickups. Apply for grant funding to assist with purchasing needed containers.
2 FY 21/22	After securing grant funding, purchase containers and monitor transportation costs.

Upgrade equipment across all solid waste programs: Morgan County plans to replace aged and worn equipment with new equipment, eliminating excessive maintenance costs.

Year	Actions
1 FY 20/21	Prioritize equipment needs. Apply for Recycling Equipment Grant to help purchase skid steer and recycling trailers for the recycling center. Work with ETDD to explore options for funding landfill equipment.
2 FY 21/22	After securing grant funding, purchase needed equipment for recycling center. Apply for grant to fund equipment for the landfill.
3 FY 22/23	After securing grant funding, purchase equipment for the landfill.
4 FY 23/24	Conduct evaluation of all solid waste programs. Determine financial savings through deferred maintenance costs and prioritize allocation of funds to other solid waste program needs.

Grants: Below are potential grants that Morgan County may pursue over the next five years as they attempt to meet their goals.

Fiscal Year	Grant
20/21	Convenience Center Grant to fund site purchases and convenience center upgrades.
20/21	Education & Outreach Grant to fund signage at convenience centers.
20/21	Recycling Equipment Grant to fund needed equipment at convenience centers and/or equipment for the recycling center.
20/21	Waste Reduction Grant to purchase roll off containers.
22/23	Convenience Center Grant to fund site purchases and convenience center upgrades.
24/25	Convenience Center Grant to fund site purchases and convenience center upgrades.

Scott County

The Scott County Solid Waste Region currently has two major goals:

1. Implementing curbside recycling collection
2. Expanding the recycling center/convenience center

Over the next five years, Scott County will work to accomplish two main goals: implementing curbside recycling collection and expanding the County's recycling center/convenience center. Curbside recycling collection will begin with a pilot program in Huntsville. The County will provide each household in Huntsville with a cart and will utilize a County-owned truck and County staff to perform bi-weekly collection of recyclables at the curbside. The collected materials will be transported to the County's

recycling facility where they will be processed with the materials collected at the convenience center. After one year of curbside recycling collection in Huntsville, Scott County will conduct an evaluation to gauge program success and consider expanding curbside collection to other communities. Expanded recycling collection will also require that Scott County expand the size of their recycling facility to accommodate the increase in material volumes being processed. Additional space will be needed for newly-required processing equipment and for storage of processed materials. Additionally, the footprint of the convenience center at the recycling facility will be increased as Scott County moves forward with expanding the types of materials they accept. The County plans to begin accepting mattresses at the convenience center as early as FY 20/21, but they will need a covered concrete pad for storage. Due to health/environmental concerns, the mattresses will be stored outside until they are collected by a processor, likely Springback Recycling. Scott County plans to explore options for accepting other materials currently banned at the convenience center, such as glass, and expanding the convenience center and recycling facility will allow them to have the necessary space to handle the increased material volumes. Detailed below are five-year plans for attaining each of Scott County's two major goals and a listing of potential grants for which Scott County may apply listed by fiscal year.

Implement Curbside Recycling Collection: Scott County wants to begin curbside recycling collection for its residents.

Year	Actions
1 FY 20/21	Begin planning for curbside collection program. Meet with Huntsville mayor and town officials to coordinate on necessary actions. Apply for recycling equipment or container grants to purchase recycling carts.
2 FY 21/22	Begin curbside recycling collection in Huntsville. Evaluate processing capacity at recycling facility and ability to manage increased material volume. Apply for recycling equipment grant to purchase any needed equipment.
3 FY 22/23	Conduct year one evaluation of Huntsville curbside collection program, examining participation rates, contamination rates, volume increases, etc. Plan for expansion to additional communities. Meet with community officials to coordinate on necessary actions.
4 FY 23/24	Conduct year two evaluation of Huntsville curbside collection program. Apply for recycling equipment or container grant to purchase recycling carts for selected community.
5 FY 24/25	Begin curbside collection in second community. Conduct year three evaluation of Huntsville curbside collection program. Evaluate processing capacity at recycling facility and ability to manage increased material volume. Apply for recycling equipment grant to purchase any needed equipment.

Expanding Recycling Facility/Convenience Center: Another goal of Scott County is expanding the size of the recycling facility and convenience center.

Year	Actions
1 FY 20/21	Plan for expanding recycling facility/convenience center. Evaluate needed equipment and infrastructure. Conduct necessary site analysis. Formulate

	final plans for expansion. Apply for Convenience Center, Recycling Equipment, and/or Waste Reduction Grants to fund needed upgrades.
2 FY 21/22	Expand recycling facility and convenience center footprint. Begin processing additional material collected from the curbside collection of recyclables in Huntsville. Begin accepting mattresses at the convenience center. Evaluate additional materials to accept for recycling.
3 FY 22/23	Conduct year one evaluation of expanded facilities. Determine which new materials to begin accepting. Apply for container grants for additional materials to be accepted at convenience center.
4 FY 23/24	Begin accepting additional materials (i.e. glass) at the convenience center. Conduct year two evaluation of expanded facilities.
5 FY 24/25	Conduct year three evaluation of expanded facilities. Determine if program can be further expanded and additional materials can be accepted for recycling.

Grants: Below are potential grants that Scott County may pursue over the next five years as they attempt to meet their goals of curbside recycling collection and expanding the recycling facility/convenience center.

Fiscal Year	Grant
20/21	Recycling Equipment Grant for curbside carts
20/21	Container Grant for curbside carts
20/21	Convenience Center Grant for expanding convenience center
20/21	Waste Reduction Grant for expanding recycling facility
21/22	Recycling Equipment Grant for any needed collection or processing equipment
22/23	Recycling Equipment Grant for any needed collection containers at convenience center
23/24	Recycling Equipment Grant or Container Grant for curbside carts for curbside collection in second community
24/25	Recycling Equipment or Convenience Center Grant for any needed collection equipment

Union County

The Union County Solid Waste Region currently has two major goals:

1. Waste Reduction
2. Increased Public Education

As the long-term agreement between Union County and Waste Management moves toward the end of its 30-year term, the County is beginning to explore options for the future of their solid waste operations. After 30 years of a deal whereby Waste Management paid Union County to operate their program, an agreement which allowed the County's solid waste to remain budget neutral, Union County now faces a scenario

where they are responsible for paying the annual costs of solid waste operations in excess of \$1 million. All future scenarios must keep collection and operation costs as low as possible, and achieving the goals of waste reduction and increased public education will aid on this front. The leading option for the future is contracting with a waste hauler to collect and transport Class I waste and recyclables to a landfill and processors. This option is being investigated through the lens of helping Union County achieve the goal of waste reduction. Union County will focus on increased recycling collection and processing and will need significant assistance with equipment purchases through grant funding. Union County also has the goal for increased public education. Detailed below are five-year plans for attaining each of Union County's two major goals and a listing of potential grants for which Union County may apply listed by fiscal year.

Waste Reduction: Union County contracts hauling of Class I waste and recyclable materials to a landfill and to processors.

Year	Actions
1 FY 20/21	Investigate options for future of solid waste program. Consider options for participation in a hub-and-spoke model. Consider options for extending agreement with Waste Management.
2 FY 21/22	Plan for additional recyclable material collection and processing equipment. Evaluate which materials are collected in higher amounts at each convenience center. Apply for needed grants to purchase additional containers and any needed processing equipment.
3 FY 22/23	Begin expanded recyclable collection. Focus public education efforts on increased residential participation in recycling source separation and proper usage of convenience centers.
4 FY 23/24	Continue operation of expanded recycling collection efforts. Conduct a one year evaluation to gauge program effectiveness and economic impacts on the Union County solid waste region. Evaluate which materials have increases in volume collected and which materials could be improved upon. Conduct waste stream analysis to evaluate the amount of recyclables still being mixed with Class I waste, and adjust public education efforts accordingly.
5 FY 24/25	Continue operation of expanded recycling collection efforts. Conduct a two year evaluation to gauge program effectiveness and economic impacts on the Union County solid waste region. Consider further expansion of collection efforts and adjust public education efforts as needed.

Increased Public Education: Another goal of Union County is increased public education efforts, primarily in ways of waste reduction. The initial focus will be hands-on programs in the middle school, especially composting.

Year	Actions
1 FY 20/21	Investigate programs in other counties. Contact other counties, particularly Rutherford, to get information on setting up similar programs. Plan in-school program. Apply for Education & Outreach and Composting grants.
2 FY 21/22	Begin in-school composting program.

3 FY 22/23	Continue in-school program. Conduct year one evaluation to determine program effectiveness. Evaluate expanding program to high school.
4 FY 23/24	Continue in-school program in middle school. Plan for expansion of program into high school. Apply for Education & Outreach and Composting grants.
5 FY 24/25	Begin in-school program in high school and continue program in middle school. Evaluate program success in both schools and determine feasibility of expanding program to the jail.

Grants: Below are potential grants that Union County may pursue over the next five years as they attempt to meet their goals of waste reduction and increased public education.

Fiscal Year	Grant
20/21	Measurement Grant for truck scales
20/21	Education & Outreach Grant for public outreach and recycling education materials and for in-school educational materials
20/21	Composting Grant for materials and equipment to begin in-school program
20/21	Recycling Equipment Grant for additional recycling collection containers
20/21	Convenience Center Grant for a tractor for materials processing at the Wolfe Road CC
23/24	Education & Outreach Grant for in-school education materials to expand the program to the high school
23/24	Composting Grant for materials and equipment to expand the in-school program to the high school

During FY 2020/2021, the ETDD solid waste staff plans to conduct the same exercises with Anderson, Blount, Claiborne, Jefferson, Knox, Loudon, Roane, and Sevier Counties and the City of Knoxville to set goals for their solid waste programs and outline five-year plans for achieving those goals. The resulting reports will be shared with TDEC staff and each county's regional solid waste board to ensure consistency in goals and reporting. Preliminary analysis by ETDD staff found no major deficiencies in the current operations of these communities nor inconsistencies between their operations and the 2015-2025 Solid Waste and Materials Management Plan.