



Blount County, Tennessee

Project Name: Blount County, Tennessee 2018 Temporary Household
Hazardous Waste Collection (THHWC) Grant Application

TECHNICAL NARRATIVE ATTACHMENT 2

TDEC

Tennessee Department of Environment and Conservation

Prepared for

Blount County Government
Ed Mitchell, Mayor

Blount County Recycling Department
Jeff Headrick, Highway Superintendent

Prepared by
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March 22nd, 2018



Attachment 2/Technical Narrative

TO: Mr. Bob Fletcher, CET, CHMM, MS / HHW Coordinator, Division of Solid Waste Management |Materials Management Section, Department of Environment and Conservation, State of Tennessee

Mr. Lynn Tutor / Grants Analyst, Division of Solid Waste Management, Materials Management Programs, Department of Environment and Conservation, State of Tennessee

Ms. Loretta Harrington / Grants Program Manager, Division of Solid Waste Management, Materials Management Programs, Department of Environment and Conservation, State of Tennessee

FROM: Doug Hancock, Senior Planner, Blount County

DATE: March 22nd, 2018

RE: **Blount County, Tennessee 2018 Temporary Household Hazardous Waste Collection (THHWC) Grant Application**

On behalf of Blount County, I am submitting the above referenced project for Materials Management Programs consideration by the Tennessee Department of Environment and Conservation. Should you need any additional information don't hesitate to let me know.

County: Blount County

Project name: **Blount County, Tennessee 2018 Temporary Household Hazardous Waste Collection (THHWC) Grant Program**

Location/ Project Description: **Purchase and delivery of two new Temporary HHW buildings to be located at the Blount County Recycling Center, 331 Levi Street, Maryville, Tennessee 37804**

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Technical Narrative Questions:

I. Project Description – 30 points.

1. Describe the proposed project, including its goals and objectives. What criteria and methods will be used for measuring and determining the success towards accomplishing the goals and objectives?

The Goal of this project is two-fold: To increase the amount of household hazardous waste safely collected in Blount County and safely store until permanent disposal and to reduce the amount of household hazardous waste that is not collected or stored properly and ends up in the local solid waste facility.

Objectives: To utilize two new Temporary Household Hazardous Waste Buildings to collect and store waste; to collect data relevant to the collection and storage of household hazardous waste and evaluate project success based on data analysis.

The two new Household Hazardous Waste buildings will be the method of collecting and storing this waste stream until permanent disposal can be achieved. The Recycling Department will maintain a database of information regarding all items collected, volumes and when shipped out. Success of the proposed project will be determined by evaluation of collected data over time.

2. Identify as a Tier I, II, III, or Tier IV and make appropriate requests based on the appropriate level of tiered service.

The Recycling Center located on Levi Street is a Tier 1 facility. This proposed grant request is in line with the appropriate tier level of service.

3. Describe the activities planned to accomplish the goals and objectives. Provide anticipated project plan timeline. (E.g. activity occurs in months 1-3, months 4-6, year 1, year 2, etc.).

All activities associated with this proposed project will begin as soon as the storage building are delivered, put in place and staff is trained how to handle and store approved household hazardous wastes. The new Blount County convenience center at Levi Street was designed to incorporate these facilities and installing them will be a seamless process of having them set in place immediately upon arrival. All of this should occur as soon as possible or within 1-3 months of project approval, pending all contracts, ordering building and scheduling shipment.



4. Will the project provide a service that is currently not available in the area or expand participation in a program? Specify the method to collect waste from local public school districts if applicable. What area and population will the program serve? How many households or Conditionally Exempt Small Quantity Generators (CESQG) do you currently serve and what is the estimate for the next five years of operations?

This project will provide a service that is currently not available to the bulk of the County population. While the municipalities of Maryville and Alcoa provide HHW collection days, they are limited to City residents. The entire population of the county including city residents will be able to utilize the new temporary household hazardous waste collection facilities located at Levi Street. The area served is the entire county which contains 567 square miles. The 2017 population of Blount County is estimated at 129,929 and as of 2016 there were a total of 56,926 housing units according to the U.S. Census Bureau QuickFacts, all of which are welcome to utilize this facility. The Blount County Recycling Center at Levi Street is a new facility and the number of CESQG's to be served has yet to be determined. As of now there are none being served as our facility does not have any storage buildings for HW. Storage of CESQG HW has yet to be determined if applicable to this site.

5. Provide the location(s) of activity, facility or event operating hours and/or collection schedule.

The new temporary HHW collection buildings will be located at the Blount County Recycling Center, 331 Levi Street, Maryville, Tennessee 37804. Hours of operation are Tuesday, Thursday and Saturday from 8:00 am to 4:30 pm EST.

6. Provide a plan or description stating how service will be provided to surrounding communities through mobile collection services/events.

Upon installation of new temporary HHW buildings the Blount County Recycling Center at Levi Street will provide supervised service with trained personnel to all residents and communities in Blount County. As mentioned the facility will be open two days during the week and one weekend day for 8.5 hours per day with full-time employee(s) on site. Since we currently have no storage capacity no additional storage services are planned or offered. The Recycling Center will hold an annual HHW day in coordination with TDEC once a year; this will occur with or without on-site storage facilities. Mobile collection will be determined later provided resources become available.



7. Show that the proposed project will support the Region's Solid Waste Plan and the State 2015-2025 Solid Waste and Material Management Plan.

This project will fully support the State's 2015-2025 Solid Waste and Material Management Plan by working to accomplish environmentally sound solid waste collection and disposal. This project will most specifically address Objective 2: to increase access to and participation in recycling and Objective 6: to expand and focus education and outreach of the state plan. This project supports the Regional Solid Waste Plan which specifically includes expanding services within the recycling and waste diversion divisions. Paint storage facilities and additional recycling locations were also identified in the plan.

II. Waste Management and Diversion – 25 points

1. How will material(s) be collected, stored, transported and disposed? Indicate which tasks the Grantee's program staff will perform and those tasks the contractor will perform.

At this time all HHW will be brought in by the general public and handled by trained Recycling Department staff who will sort and store approved HHW's in the new storage buildings. County staff will also document time and quantities stored. The contractor will be responsible for extraction from site and disposal.

2. List waste streams to be collected including any new wastes to be added. How many pounds of HHW or CESQG waste did you collect in 2016 and what is your estimate for the next five years?

The following Items are to be collected per the TDEC HHW guidelines:

- Grease and rust solvents, naval jelly
- Carburetor and fuel injector cleaners
- Starter fluids
- Body putty
- Gasoline
- Used strippers and thinners
- Adhesives
- Driveway sealant
- Roofing tar
- Wallpaper remover
- Pesticides
- Fertilizers
- Wood preservatives
- Pool chemicals
- Photo processing chemicals

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- Aerosols and compressed gas
- Mercury thermostats and thermometers
- Fluorescents tubes
- Compact fluorescent bulbs

This is a new facility and no HHW has been collected.

3. Describe your plan and commitment for safe operations and training to meet safety and regulatory requirements. Attach a written Operations Plan and Training Plan, if available. If not, explain. You may include participation in state sponsored HHW specific HAZWOPER and DOT training and involvement in professional associations focused on HHW management.

The Assistant Highway Superintendent has participated in HAZWOPER training. The Recycling Department intends to maintain a safety training program on different subjects bi-monthly. Blount County intends to create and maintain a safe working environment through continued education.

4. What materials will be offered for reuse? How much do you currently divert to reuse and how much do you anticipate diverting annually over the next five years. What is the estimated cost savings of your reuse program?

The Recycling Center at Levi does not currently intend to be a reuse facility. Some materials may be reused as part of the contractor's activities after they have been removed from the county facility. Reuse in this case cannot be estimated. Blount County may implement a reuse program in coordination with local businesses if a market exists and training can complement a reuse initiative.

5. Identify current recycling and hazardous waste disposal vendors for all contractor(s) used. Attach current contracts, including all rates for services. Will you be entering a procurement process for a new vendor(s) in the next five years? If yes, provide a brief explanation.

The Recycling Center at Levi Street is a new facility. There is no current HHW program at this facility; therefore no contractors nor vendors. Upon program approval and delivery and installation of storage facilities, the county will enter into agreement with removal and disposal contractor(s) as recommended and required by TDEC. Future contracts and a price matrix for services can be developed with project funding.



III. Education Plan – 20 points

1. Describe the goals of your public education and/or promotion plan for the HHW Program.

As mentioned in Item I.1 above the Goal of this project is two-fold: To increase the amount of household hazardous waste safely collected in Blount County and safely store until permanent disposal and to reduce the amount of household hazardous waste that is not collected or stored properly and ends up in the local solid waste facility.

As far as public education - the objective is to inform as many people as possible of the Recycling Center at Levi Street and what items they can bring to the facility. Blount County is already engaged in a public promotion campaign regarding the new recycling facility which includes newspaper advertising, a website specifically for the Blount County Recycling Center at Levi Street, by promotional information being given out by our partner Keep Blount Beautiful and with flyers being handed out by staff at the Recycling Center. The website is linked to directly from the Blount County Government main web page. The site contains information about location, hours of operation and what can be brought to the facility. The website, newspaper, partner and flyers will also be a continuing process to inform users of the facility and also to educate them on the benefits of recycling overall. New and interesting information about recycling will also be added to what information is disseminated as it becomes available. Any brochures that TDEC would like to supply to the Recycling Center at Levi would be greatly appreciated and can be handed out by out staff.

2. If you desire to participate in servicing local public school districts, provide a plan to provide educational support to the students and facility.

As of this time we do not plan to service the local schools as this is a start-up facility. Options to service local schools may occur in the future.

3. Describe the project's education plan, timeline for meeting milestones, and target audience. Include media to be used, education and promotion message, frequency of message, and how the target audience will be informed about proper participation.

The timeline is simply to begin the education plan as soon as the facility is fully operational. As mentioned in Item III.1 above Blount County is already engaged in a public promotion campaign regarding the new recycling facility which includes newspaper advertising, a website specifically for the Blount County Recycling Center at Levi Street, by promotional information being given out by



our partner Keep Blount Beautiful and with flyers being handed out by staff at the Recycling Center. The website is linked to directly from the Blount County Government main web page. The site contains information about location, hours of operation and what can be brought to the facility. The website, newspaper, partner and flyers will also be a continuing process to inform users of the facility and also to educate them on the benefits of recycling overall. New and interesting information about recycling will also be added to what information is disseminated as it becomes available.

4. Describe project's source reduction message or component.

This is a recycling facility and with the HHW storage building we will be able to offer a service that is currently unavailable to the bulk of county citizens.

As defined, source reduction refers to 1) the reuse of products and 2) the change in the design, manufacture, purchase, or use of materials or products to reduce their amount or toxicity before they become municipal solid waste.

This facility will address the first part of source reduction by recycling items that are remarketed locally is reuse which is the first portion of source reduction. Once the facility is fully operational and markets for recyclables are established locally; this facility will contribute to source reduction through reuse. The second component of source reduction does not apply to this facility.

5. Identify any partners who will be participating, and what each partner will contribute to the education plan.

Blount County Recycling Department is already partnered with Keep Blount Beautiful in our current education program and overall development program. The Recycling Center at Levi is also listed on the Keep Blount Beautiful website including all pertinent recycling information about our facility. Keep Blount Beautiful as well as TDEC will be part of our HHW collection days

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