2013 SPECIAL WASTE MANAGEMENT EXCELLENCE AWARD

RELEASE FORM

Release Statement: I certify that the information provided in this 2013 Excellence Award application is accurate and correct to the best of my knowledge. I understand that nominations become the property of SWANA. SWANA reserves the right to publish any or all of my application. My signature gives SWANA the right to reprint or make available for purchase any portion of this application.

Printed Name of Representative: ______ Keith A. Bailey

Organization Name: ______ Lorain County Solid Waste Management District

Signature: ____________________________

Date: ______ April 24, 2013
EXECUTIVE SUMMARY

The Lorain County, Ohio Solid Waste Management District owns and operates the Special Waste Collection Center (Collection Center). The Collection Center is designed to collect and process special waste materials not typically collected at curbside or drop-off recycling programs. The Collection Center diverted for reuse and recycling more than 2,600 tons from landfills since June 2010. The Collection Center processed 28,632 vehicles and 34,558 households the first two years of operation. Approximately 92% of the materials collected are diverted for recycling or reuse.

- Household hazardous waste (433 tons)
- Scrap tires (1,231 tons)
- Electronics (828 tons)
- Fluorescent bulbs/ballasts (164 tons)
- Shred days (23 tons)
- Books (45 tons)
- Batteries (7.5 tons)
- OCC (5 tons)
- Metals (6 tons)
- Christmas trees (3 tons)
- Construction materials (1.7 tons)

The District’s 300,000 residents may use the facility year around.
INTRODUCTION

The Lorain County Solid Waste Management District (District) Collection Center is located in the City of Elyria, Ohio at 540 South Abbe Road. Regionally, the Collection Center is approximately 30 miles west of downtown Cleveland. The Collection Center’s location was designed to provide convenient service to the majority of the District’s diverse population of more than 300,000 residents. The northern one-third of the county is primarily a heavily populated urban and suburban area with commercial and manufacturing businesses. The southern two-thirds of the County are primarily smaller communities and rural townships with significant land dedicated to agriculture.
The remainder of this application follows the specific questions and headings provided in the SWANA Special Waste Awards Application. These include:

1. Design of Collection Facility/Management System
2. Environmental Benefits & Regulatory Compliance
3. Program Planning
4. Performance, Economics and Cost Effectiveness
5. Use of Equipment/Systems and Technologies
6. Worker Health & Safety
7. Public Acceptance, Appearance and Aesthetics

Design of Collection Facility/Management System:

- Describe the type of collection and special waste management system developed.

The development of the Collection Center was a vision that was developed as a part of a long range solid waste management plan. For many years, the District held one day collections for household hazardous waste (HHW), electronic waste (E-Scrap) and tires. These programs were initially successful, however, they were expensive and over time, the cost for the amount of service provided throughout the year was difficult to justify.

In late 2009 and early 2010, the County began evaluating properties for a Collection Center. During the same time period, the Lorain County Port Authority decided to purchase a former commercial building that had few tenants remaining in order to provide needed space for their operations. The County Port Authority leased a significant portion of the structure to the District. The District redesigned the space and revamped the ventilation, electrical, plumbing, lighting, and fire suppression system in accordance with National Fire Codes.

Normal ventilating and cooling, and emergency evacuation of dangerous fumes, are addressed by a single custom-designed system. It starts with 4 strategically-placed holes cut into the outer walls - holes that are each five feet square in size. These are covered in heavy steel mesh on the outside, and equipped inside with a set of electrically-operated louvers. Each set of two louvered openings is remotely-controlled and linked to one of two powerful exhaust fans mounted on the roof. The fan in the center draws air in through the openings on the far wall, then up and out at ceiling level. The second fan, using a large ceiling-to-floor duct, draws fresh air at floor level across the unloading zone and the HHW sorting area and through the entire length of the entrance lanes. Two electrical control panels allow the staff to manually activate either or both systems as needed. A third control panel, entirely computerized, monitors three sets of sensors located throughout the building. One set detects the excessive presence of carbon monoxide; the second set does the same for nitrous oxide. This protects the staff and the public from a buildup of automotive exhaust gases. The final set of sensors will start the fans if the ambient temperature in the working area exceeds a
programmable limit (currently set at 80 degrees F.). This provides automatic cooling on hot summer days.

The Collection Center is designed to be a drive through for residents delivering their HHW, fluorescent bulbs, E-Scrap, tires and other acceptable materials inside the Collection Center building. District employees assigned to work at the Collection Center greet the residents during hours of operation (Mondays and Wednesdays noon to 6:00 p.m., and Saturdays 9:00 a.m. to 6:00 p.m.) and empty the special wastes from the vehicles. Residents are asked to complete a form indicating the type of materials brought to the Collection Center.

Once removed from vehicles, special wastes are separated by type of material. Household hazardous waste materials are separated by type of material and placed in appropriate containers for shipping. Similarly, bulbs and ballasts are sorted and placed in shipping containers. The facility design includes rear docks where tires can be directly loaded onto trailers to transport to scrap tire recycling facilities.

The District has entered into contracts with several vendors who process the special waste materials accepted at the Collection Center. Approximately, 92% of the special waste materials collected are recycled. The household hazardous waste contractor assisted with the design of the Collection Center and then the appropriate storage of the materials prior to shipping for recycling and processing. The contractor ensures that District personnel are properly trained to store materials in the correct containers and that unidentified materials are segregated for later identification by the vendor.
Solid Waste Association of North America  
2013 Special Waste Management Excellence Award  
Lorain County, Ohio Special Waste Collection Center

The Collection Center is designed to manage many different types of special waste materials. These include:

**Corrosives** - Acids, Caustics, Rechargeable Batteries, Button Batteries, Hydraulic Brake Fluid

**Flammables** - Latex-Based Paints/Stains/Sealers, Oil-Based Paints/Stains/Sealers, Aerosol Cans, Turpentine, Paint Thinner, Adhesives, Solvents, Oven Cleaners, Lighter Fluid, Butane Lighter Fluid, Oil Filters, Propane Tanks (Up to 33-Pound Only), Oxygen and MAPP Gas Cylinders

**Reactives** - Fertilizers, Pool Chlorine, Oxidizers

**Toxics** - Household Bleach, Antifreeze, Herbicides, Pesticides, Mercury & Mercury Devices, Roofing Tar, Concrete Sealers, Fire Extinguishers

**E-Scrap** - (Computers, TV's, & Other Electronics) Personal Computers (CPU), Video Monitors (CRT), Flat-Screen Monitors, Mice, Keyboards & Joysticks, Printers, Plotters & Scanners, Hard Drives & Tape Drives, Computer Speakers, Diskette Drives & CD Drives, Data Terminals & Modems, Servers & Network Hardware, UPS Systems, Cables & Circuit Boards, Software, Tapes, Diskettes & CD's, Desktop Office Equipment (Typewriters, Calculators, Fax Machines, etc.), Household Televisions (Up to 27" Only; No Large Console TV's), Home Audio Equipment, Microwave Ovens, Smoke Detectors, Reference Manuals & Books, All Refillable Printer Cartridges, All Cell Phones (with battery, charger and other accessories preferred)

**Scrap Tires** - (Limited to 10 Tires): On-The-Rim / Off-The-Rim, Tires up to 20” Rim Diameter, All Bicycle & Motorcycle Tires

**Fluorescent Lamp & Ballast** - Straight Fluorescent Tubes, All Lengths (including green-tipped tubes), All U-Shaped, Circular and Odd-Shaped Lamps, Compact Fluorescent Lamps (CFL), Neon Lights and Signs (Tubing Only), High Intensity Discharge (HID) Bulbs, HPS, MH & MV Ballasts & Transformers from All Fluorescent Light Fixtures

- **For permanent facilities, describe the facility.**

The engineering schematic below presents the planned flow of traffic and special waste storage at the facility. Schematics for fire suppression, electrical, plumbing and lighting were also developed for the facility design. It was important to have the Collection Center maintain the delivery and storage of accepted special waste under roof. Residents arrive at the facility and pass through the entrance and long corridor where they are instructed to move forward carefully to the drop-off zone. The vehicles turn the corner where Collection Center staff removes acceptable materials from the vehicles to
carts. The carts of materials are then moved to sorting areas where they are placed into the appropriate packing containers. Once the vehicle has been emptied they are directed out the rear door to the nearby street.

The first vehicle enters at the grand opening.

Once in the front entrance, vehicles follow the lanes and instructions when entering the facility. Two lines are formed. When vehicles enter they are approached by a District Collection Center employee and asked a series of questions and then instructed to complete participant cards to ensure they live within the District and to collect information on the types of materials they are delivering.
At the end of the lane, vehicles make a left turn to the unloading zone where cars deliver their special waste.

Once unloaded vehicles slowly exit out the rear door and exit onto the connecting road. Special wastes are collected until volumes are in truck load quantities. Truck trailers back up to the docks and special wastes are loaded into trailers for shipping to recycling and processing facilities.

- Describe special event sites.
  - The District hosts some special events on the weekend in the front of the facility. The front of the building includes a large parking lot. Shred days where residents can bring private papers for shredding and recycling are hosted in that parking lot location.
The District also hosts special collections for agricultural tires. Areas targeted are in the rural townships. The tires are collected and placed on trailers at the collection locations and the Collection Center.

- The District collects Christmas trees to be mulched and composted. Since the opening of the Collection Center, the District has processed 3 tons of Christmas trees.

- The District Collection Center partners with the Habitat for Humanity ReStore and collects materials as part of Keep America Beautiful/America Recycles Day. Approximately 3,400 pounds of material used for construction of homes was donated to ReStore to benefit Habitat for Humanity programs.

- Connect Your Community, in partnership with Lorain County Community College (LCCC), RET3 and the Lorain County Growth Partnership, have enrolled 2,137 students in a 24 hour (3-day) computer training course that teaches participants how to use broadband internet in meaningful ways. Of the 2,137 enrolled since the program began in October, 2010, 1,944 have graduated. This is a 91% graduation rate. Of those graduates, 1,567 have become a Sustainable Broadband Adopter (SBA). This means they have purchased internet, been given or already have a computer, and were taught how to use both the internet and computer to benefit their lives.

The Lorain Co. Commissioner's Solid Waste Department has helped this program achieve the high graduation rate by housing the computers the students receive upon graduation at their Lorain County Collection Center. In addition,
January 2011 through April 2012 the LCCC and Collection Center have distributed computers that were cleaned and refurbished by RET3 the E-Scrap processor using some materials collected at the Lorain County Collection Center. In total, over 1,200 computers have been provided to community residents in Lorain County due to the Collection Center’s program. These computers went to families who didn’t already have a working computer in their home.

By the end of August 2012, Connect Your Community, in partnership with Lorain County Community College and the Lorain County Growth Partnership, will have successfully trained, given computers to, and connected over 1,800 community residents to broadband internet in only 22 months.

This program has helped numerous students, build a resume, find and obtain jobs through online job searching sites, complete their education online, receive their GED by using online study resources and materials, become financially literate, access health and medical information, and become a more engaged and productive community member.

- Describe the operational plan design.

The Collection Center operates under a Standard Operating Procedures Manual (SOP Manual) which was developed prior to the opening of the operation. The manual includes the following sections.

- Operating Days and Hours
- Daily Startup Outline and Checklist
- Traffic Management
- Participant Management
- Material Unloading
- Material Packaging Procedures
- Waste Storage
- Daily Closing Outline and Checklist
- Shipping Procedures
- Equipment and Supplies
- Health and Safety, Security Procedures
- Training
- Employee Policies and Procedures

The Operating Days and Hours Section establish the collection days and hours. The employees work schedule is defined and requirements for scheduling enough staff are presented. The shipping and receiving hours are also defined in the SOP.

Daily Startup Outline and Checklist Section require employees to complete a checklist to open the Collection Center. This ranges from opening and verifying that the automatic doors are operational to ensuring any unauthorized drop-offs (while the Collection Center is closed) are retrieved. This checklist ensures the Collection Center is properly organized and safe and ready for business.

Traffic Management Section outlines how traffic will move through the Collection Center both incoming and outgoing. The SOP manual also identifies how employees are to stage vehicles to overflow parking areas on high volume days.

Participation Management Section identifies who is allowed to use the Collection Center. The Collection Center can accept materials from Lorain County residents.
Solid Waste Association of North America  
2013 Special Waste Management Excellence Award  
Lorain County, Ohio Special Waste Collection Center

Businesses, schools, government agencies and non-profit organizations are restricted to certain programs and are not permitted to use the facility for the delivery of Household Hazardous Waste. Specific one time exceptions are listed on the current Authorized Actions list at the beginning of each shift.

This Section also outlines the participant on-site procedures including the identification with current driver’s license, completion of the participant form and no idle policy for vehicles waiting for unloading.

Material Handling Section identifies the procedures for unloading HHW, Fluorescent bulbs/ballasts, scrap tires and electronics. Some materials also require specific protective clothing such as Kevlar gloves for fluorescent bulbs or back support for heavy loads. The SOP also identifies what to do if breakage occurs.

Material Packaging Procedures Section educates employees how to prepare specific materials for off-site shipment. For Household Hazardous Waste materials this includes procedures for placing in lab packs. Unknown materials are placed in a special area for later identification by the Contractor chemist. Fluorescent bulbs and ballasts are evaluated to determine if they contain PCB’s and placed in a shipping drum and Gaylord boxes. Other lamp types like U-Tubes are boxed in appropriate sized containers and sealed with tape. Electronics such as CPU’s are placed on pallets and formed as a simple cube while monitors are stacked appropriately either face up or down as necessary to stabilize the pallet. Printers, scanners, small TV’s are placed in a Gaylord box.

Waste Storage Section provides procedures on placing packaged materials on the storage racks. The East storage rack is designated for Household Hazardous Waste. Full Gaylord’s or pallets are placed in the storage rack until there are 24 ready for shipping. Scrap tires are ready for shipment once the trailer is full. Electronics are ready for shipping when there are 48 full pallet loads in the rack.

Daily Closing Outline and Checklist Section include procedures for employees to close the Collection Center. This includes cleaning procedures, policing for trash on the exterior of the building and securing all equipment, gates and lights.

Shipping Procedures Section confirms how to prepare and load trailers with materials. This includes safety procedures for chocking the wheels and assuring trailer jacks are adjusted properly. Procedures for operating the fork lift and loading trucks is also described. The SOP also includes requirements for the final paperwork and requires that the trucks are securely closed and the loading dock is clear.

Equipment and Supplies Section describes the inventory of supplies that are needed to ensure a smooth operation. All employees are responsible to communicate with the lead personnel to identify supplies that are needed. The solid waste district is responsible for all purchases. The SOP includes a list of general, spill and safety supplies routinely needed.

Health and Safety Section provides overall emergency action/response guidelines for employees of facilities owned and operated by the Lorain County Board of Commissioners. Orientation and understanding the requirements of this plan (including
Solid Waste Association of North America
2013 Special Waste Management Excellence Award
Lorain County, Ohio Special Waste Collection Center

evacuation locations, employee accountability, etc.) is the responsibility of the various elected officials and department heads. Knowledge of this plan and what to do during an emergency situation is the responsibility of the individual. The SOP identifies the following procedures for emergency contacts, fire, fire extinguisher usage, bomb threats, explosions, severe weather, chemical/hazardous materials release, spill response, earthquake, emergency utility, suspicious persons, armed intruders, medical emergencies and mail threats including biological agents etc.

Training Section includes safety training procedures. The HHW contractor is required to provide training sessions for District staff. Other safety procedures are detailed in appropriate sections of the SOP. Employees are to be trained on Hazardous Communications – Right to Know procedures and the SOP. Employees are required to sign a form that they have received the training and the forms are kept on file.

Employee Policies Section includes policies on professionalism, county property and goods, and proper housekeeping.

- Describe the program’s role in local community’s integrated solid waste management system.

The solid waste district is responsible for developing the solid waste management plan. The plan is updated every three years and has a ten year planning period. The Collection Center is described in detail in the last solid waste plan. The previous plan included one day collections for HHW, Scrap Tires (5–regional drop-off locations), Electronics, and Batteries. This most recent plan includes the collection center and merges several programs under the collection center umbrella. The Plan includes a $245,000 operations budget for 2013. In 2012, the District spent $17,000 below the Plan projected budget for the Collection Center for operations.

- Describe innovative or unique aspects of the program.

The Collection Center is unique in several ways including:

- It provides service throughout the year to all Lorain County residents.
- Local businesses are also provided collection service for fluorescent bulbs.
- The County provides the labor force.
- The County retrofitted an old commercial building that hosted few tenants. This was a classic reuse of an existing site.
- The facility does not compete with the private sector and, in fact, is a partner with several private sector businesses.
- The Collection Center provides the Connect Your Community Program described in the special collection events.
- The Collection Center provides shred day services for residents.
- The Collection Center has collected agricultural tires during special collections.
- The Collection Center separates materials appropriately used by Habitat for Humanity’s ReStore.
Environmental Benefits & Regulatory Compliance

- Discuss the overall impact of the program on human health, environmental quality and resource conservation.

The Collection Center provides numerous human health environmental quality and resource conservation benefits. Assuming that much if not all of these materials would otherwise be included in household trash, the collection of household hazardous waste and ensuring proper recycling and disposal reduces the danger for waste collectors being splashed with chemicals on their body or eyes, inhaling fumes or potentially starting a fire in the rear hauler during collections. The diversion of tires to tire recyclers reduces the breeding of mosquitoes and opportunities for tire pile collections and fires. Tire fires are difficult to put out and cause potentially significant environmental damage to the air and ground water. Overall the Collection Center’s year around operation provides residents with environmental and recycling options that did not exist when the District held once a year collections. Residents have a permanent outlet for special waste materials.

The Collection Center’s special waste collection enhances environmental quality by diverting the amount of toxic materials that are disposed in the District’s regional landfill. The Collection Center serves as a centerpiece of education for residents and students to see how materials once landfilled are returned to commerce as a commodity. The District provides educational programming at the Collection Center and through presentations at the schools. The electronics and their valuable metals, tires and paints can all be recycled and made into new products.

- Describe the use of alternative products, source reduction, reuse and/or recycling.

The Collection Center is a classic reuse of an old empty commercial facility. The building was completely redesigned to meet standards for managing the materials collected including upgrades on fire suppression and HVAC. The design included the ability to manage the vehicles and the delivery of materials to the Collection Center.

The Collection Centers programs in conjunction with the Connect Your Community and Habitat for Humanity are reuse and recycling programs for construction materials and electronics that would be normally thrown into the landfill. All of the contractors hired to manage collected materials are instructed to recycle and reuse as much of the HHW, electronics and tires as possible.

In 2013, the District is in discussion with Republic Waste Services to locate a recycling drop-off inside the Collection Center property for standard recyclables including newspaper, office paper, plastic, glass, cardboard, aluminum and steel cans, and paperboard.

Approximately 92% of the materials accepted at the Collection Center are recycled or reused.
Solid Waste Association of North America
2013 Special Waste Management Excellence Award
Lorain County, Ohio Special Waste Collection Center

- Explain how the site is in environmental compliance.

The Collection Center only accepts waste from Lorain County residents. The Standard Operating Procedure clearly instructs employees not to accept waste from schools, businesses, government agencies or non-profits (except for fluorescent bulbs). The household hazardous waste is exempt under the Resource Conservation and Recovery Act (40 CFR 261.4) as a hazardous waste. The County contracts with a hazardous waste company that properly manages the flammables, corrosives, re-actives and toxics delivered by residents at the Collection Center. This is to ensure that all materials are properly managed and either recycled or disposed to meet environmental regulatory compliance. Scrap tires are delivered to a licensed scrap tire hauler and storage facility that recycles the tires in accordance with Ohio scrap tire laws. All other materials are properly reused, recycled or disposed in a licensed sanitary landfill facility.

- Describe and include in supporting documentation any awards, letters of support or facility inspection data.

The District received a Certificate of Excellence from Lorain County Beautiful for the 2010 Lorain County Beautiful Awards Renovation Finalist.

**Lorain County Collection Center Celebrates 10,000th Vehicle**

The Lorain County Collection Center operated by the Lorain County Commissioners achieved its 10,000 residential vehicle mark on June 15, 2011. Ron and Gail Schenk of Avon rolled into the facility with the 10,000th residential vehicle which earned them the winners of the "Recycled Polywood Rocking Chair". This was just 4 days shy of the Collection Center's 1st Anniversary. The facility accepts household hazardous waste (HHW), electronic scrap, fluorescent bulbs/ballasts, scrap tires, and end of life books. The facility is open to the public 3 days a week.

Program Planning

- Describe the special waste management/collection system planning process.

The planning process for the Collection Center is as follows:

1. The District Solid Waste Management Plan must include the Collection Center description and objectives. The Plan must include a line item budget that includes all Collection Center activities.

2. The District must annually report to Ohio EPA how the facility operated and the amount of materials collected.

3. The District must prepare its annual budget with personnel, equipment and maintenance needs annually which is sent to the County Commissioners for approval.
Solid Waste Association of North America
2013 Special Waste Management Excellence Award
Lorain County, Ohio Special Waste Collection Center

4. The District Director meets weekly with Collection Center personnel to review schedules for personnel, equipment needs and to determine when shipments will be made to vendors. Any problems are identified and dealt with at these meetings. Other supervisors provide daily operating notes for the Collection Center employees. See notes below.

5. The District Director is also in-charge of developing bids for vendors and requests for proposals.

6. The District Director reviews time sheets, vendor bills and maintenance requests and moves them to the appropriate personnel for processing. The District Director monitors annual training requirements to ensure all employees are appropriately trained for their positions.

7. The costs for the Collection Center are identified in the District’s planning budget monthly and presented to the Policy Committee which is responsible for preparing the solid waste management plan.

---

LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT COLLECTION CENTER
Daily Operating Notes - Wednesday, March 13, 2013

Future Events:
Deuce Pallets is scheduled to bring a full trailer of pallets on Monday 3/18/13.

The final part of Hazardous Waste training will be an in-house session on Wednesday, 3/20/13. A memo with details is posted on the bulletin boards, and extra copies are on the locker area tables.

Fire Safety training has been scheduled for Wednesday, 4/10/13. Details will be available soon.

Paper Shredding Days in 2013 are set for Sat. 4/20 and Sat. 10/19; the next Drug Takeback Day will be on Sat. April 27, 2013; flyers are available at the Attendee’s Station to give to the public.

The Following OUTGOING Shipments are Scheduled for Today:
R113 is scheduled to come today for two truck loads of E-Scrap. (DLM)

The Following INCOMING Shipments or Deliveries are Expected Today:
The new main tank for the fluoroscrubber should arrive any day now. It is coming from DownChem and will be delivered by their truck. When it arrives, palletize and store it in the South Aisle. Put any delivery paperwork in with the Daily Work. If there isn’t any, send a memo that it has arrived. (DLM)

Pride Day is in May, and various supplies will be arriving in the near future. Some will come directly to the Center. You may accept any deliveries addressed to Sally Pecora, or from the “Keep America Beautiful” organization. Put them in the South Aisle, and notify the Office by phone or memo. (DLM)

The Following LARGE OR NON-STANDARD DROP-OFFS are Expected Today:
There is a new list for today attached to your email. Print it, read it, and post it. (DLM)

The Following MAINTENANCE OR REPAIRS Are Scheduled for Today:
There are several piles of leaves and other debris in the outdoor enclosure. Use a broom and a shovel to get these into an orange bag and then into the trash. Use the pallet jack to move the battery pallets and clean under them. Clean the entire enclosure. (DLM)

The Following SPECIAL PROJECTS OR TASKS Should be Addressed Today: [None]

OTHER NOTES AND CONSIDERATIONS for Today:
There are enough loads of E-Scrap ready for the first truck load. If there are not enough for the second, you will need to make them up before he returns. (DLM)

Dobic Pallets will be delivering 520 pallets on Monday. We will look first at what we have on hand, and if need be I will take someone to the warehouse to borrow some. Then we will look at our storage areas and decide how to best accommodate them. You will probably then need to shift some items around. (DLM)

I will be there between 11:30 and Noon today and will make other assignments as needed. (DLM)
Describe the effectiveness of the planning process.

The planning process for the Collection Center has been very effective. The facility came in under budget in 2012. Materials and commodities collected at the Collection Center are up year over year and in most cases the Collection Center has collected more materials as compared to previous one day collections. HHW collection is lower than the one day collections, but the District believes this is attributable to the fact that commercial and other businesses are not delivering waste to the Collection Center like they did at the one day events. The one day collections were unable to identify business users which are discouraged and prohibited from using the Collection Center. The following table includes Collection Center statistics comparing three years of one day events and programs to the 2.5 years the Collection Center has been open.

<p>| LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT |
| Collections Comparison - Weekend Events to Collection Center |</p>
<table>
<thead>
<tr>
<th>Type of Collection</th>
<th>Pounds</th>
<th>Collection Cost</th>
<th>Cost Per Pound</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Scrap</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Events</td>
<td>1,045,933</td>
<td>$151,443.26</td>
<td>$0.1448</td>
</tr>
<tr>
<td>Center</td>
<td>1,655,215</td>
<td>$162,876.49</td>
<td>$0.0984</td>
</tr>
<tr>
<td>Household Hazardous Waste</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Events</td>
<td>1,550,556</td>
<td>$512,922.76</td>
<td>$0.3308</td>
</tr>
<tr>
<td>Center</td>
<td>861,924</td>
<td>$257,811.39</td>
<td>$0.2991</td>
</tr>
<tr>
<td>Scrap Tires</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Events</td>
<td>2,641,160</td>
<td>$175,127.97</td>
<td>$0.0663</td>
</tr>
<tr>
<td>Center</td>
<td>2,461,880</td>
<td>$158,993.18</td>
<td>$0.0646</td>
</tr>
<tr>
<td>Bulb &amp; Ballast</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Events</td>
<td>186,530</td>
<td>$61,967.57</td>
<td>$0.3322</td>
</tr>
<tr>
<td>Center</td>
<td>329,060</td>
<td>$115,528.20</td>
<td>$0.3511</td>
</tr>
</tbody>
</table>

The District has processed three times as many vehicles (10,800 vehicles) as in the one day collections. All activities for the Collection Center are presented at monthly meetings of the Policy Committee and observed by political subdivisions and citizens.

Discuss the plan for managing the special waste.

Each of the special wastes is managed with a concern for the environment and human health. This includes:

Household hazardous waste is sorted and packaged to carefully ship materials to the District’s contractor. Household hazardous wastes are processed at the contractor’s facility.
Oil based paints are recycled into a fuel. Latex based paints are solidified and landfilled.

Corrosive materials and reactives are neutralized and they are landfilled after they are determined to be non-hazardous.

Toxics are incinerated.

E-Scrap is collected and processed by the District’s E-Scrap contractor. The E-Scrap vendor will fix computers and return them to commerce for charities, schools and other non-profit uses. Other materials are scrapped for their metals, plastic and glass and are recycled.

Tires are collected and processed by the District’s Scrap Tire vendor. The tires are shredded and returned to commerce as playground and track surfaces, tire derived fuel and other products.

The District has been collecting used books for recycling. The books are collected and shipped by truckload to a book binder that recycles the paper.

Discuss how community concerns were addressed and resolved.

The Collection Center has never had complaints from area residents or neighbors. The facility is totally enclosed and no waste materials are exposed to the elements.

Performance, Economics and Cost Effectiveness

Describe the efficiency of the operation.

The Collection Center operates more efficiently than the one day events that were held prior to 2010. One day events had vehicle wait times of up to an hour. The Collection Center has minimal wait times.

Costs for the entire year are almost one half the costs of the one day events. Total tonnage at the Collection Center is many times more than the collection of materials at the one day collections.

Discuss operational performance and whether it equals or exceeds the program’s goals and expectations. Compare with similar systems.

The operational performance has exceeded the goals and expectations of the District. Materials collected are higher and costs are lower. In addition, the District collects more materials allowing the facility to contribute to achieving state mandated recycling goals. The facility contributes to the goal of recycling and reusing 25% of the residential waste stream.

Describe how the organization fosters customer service.

The facility allows residents to conveniently drive their vehicle through the Collection Center. Collection Center employees remove materials from the vehicles. Residents never have to leave their vehicles.
Residents receive handouts on various topics and can direct inquiries to the District's main office. This fosters great customer service and there is no charge for the service.

- **Describe how the program operates within its budget, and whether the costs are appropriate for a program in the industry that is comparable in size.**

  The District operates within a budget established within the solid waste management plan and approved and authorized by the County Commissioners. The budget allocates funding for part time employees and management of the center. In addition, the budget covers equipment, supplies and the cost for vendor processing of the materials. The cost for operating the Collection Center is comparable to other permanent special waste collection facilities and in some cases lower.

- **Explain whether the program met the expected budget (and generated revenue), and if not, what factors contributed to the situation and what remedies are being proposed.**

  In 2012, the District Collection Center operations were $17,000 under the projected budget. The District does not receive revenues from any of the materials collected.

**Use of Equipment/Systems and Technologies**

- **Describe equipment used at the facility.**
  - Bobcat
  - Pallet jack
  - Transfer trailers
  - Automated stretch wrap machine
  - Fork Lift with accessories
  - Hydraulic cardboard baler
  - Gaylords
  - Electric floor sweeper and floor scrubber
  - Rack storage system

- **Detail efficiency and effectiveness of equipment.**

  The automated stretch wrap machine has increased efficiency and lowered supply costs. Speed has increased in wrapping materials for shipment. The forklift provides the facility efficiency in storage of product and spacing. Trailers pulled to the back dock allow for the immediate loading of scrap tires and shipping once the trailer is loaded. The cardboard baler eliminates the need to flatten boxes and allows for the baling and selling of cardboard. Floor sweeper and scrubber allows for the high level of cleanliness and maintenance.

**Worker Health & Safety**

- **Describe employee training frequency and topics.**

  All part time employees take the HAZWOPER 8 hour refresher course annually. Employees also receive a 4 hour DOT HM 181/126-F training and a 4 hour RCRA Hazardous Waste Management Training annually. All part-time employees are fully trained and licensed fork lift drivers.
Describe safety procedures, including enforcement. Include injury rates.

In the two years of operations there have been no injuries. Employees are properly outfitted with steel toe shoes, fluorescent shirts or vests. There have been no OSHA violations or inspections.

Public Acceptance, Appearance and Aesthetics

The Collection Center manages approximately 10,000 vehicles annually. The public appreciates this service and facility. The facility is maintained and cleaned after every shift. The property outside is policed for litter and improperly delivered materials at the opening and closing each operating day. As can be seen in the opening pictures the facility aesthetically mixes well with the surrounding businesses and uses.

The District received an award from Lorain County Beautiful-2010 Lorain County Beautiful Renovation Finalist.

Describe the maintenance program for keeping the facility and vehicles clean and aesthetically pleasing.

Every operational day the team leader receives an email at the Collection Center outlining special cleaning and maintenance to be completed during the shift. These operational notes are defined daily. This includes the forklift, bobcat, stretch wrap machine, and storage areas. Floor scrubber and sweeper are used every operational shift. The District Director inspects every operational day to ensure the facility is kept clean and aesthetically pleasing.

Describe public relations measures and public education information.

The District’s uses numerous public relations measures to educate the public about the Collection Center. The websites below presents information on the Collection Center including hours of operation, location and special collection days. There is an electronic sign at the front of the Collection Center to advertise public information. The District partners with other communities (see below) to advertise programs such as Shred Day. The District publishes a newsletter that is emailed to interested parties that includes Collection Center information.
District professionals conducted the following tours of the Collection Center. In addition
to tours, the District conducts regular classroom presentations on recycling and waste
reduction. In 2012, the Education Specialist conducted 178 presentations to over 4,500
students. Each of these presentations includes a discussion on the Collection Center
operations and opportunities to recycle and divert special wastes from the landfill.

<table>
<thead>
<tr>
<th>Date</th>
<th>Group Name</th>
<th># of Students</th>
<th># of Teachers and Parents</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/07/12</td>
<td>Avon Lake Girl Scout Troop</td>
<td>12</td>
<td>5</td>
<td>BNS</td>
</tr>
<tr>
<td>11/05/12</td>
<td>Elyria Cub Scout Troop #132</td>
<td>30</td>
<td>25</td>
<td>BNS</td>
</tr>
<tr>
<td>07/18/12</td>
<td>Wee Care Child Care</td>
<td>12</td>
<td>5</td>
<td>BNS</td>
</tr>
<tr>
<td>04/14/12</td>
<td>Cub Scout Pack #324</td>
<td>13</td>
<td>10</td>
<td>BNS</td>
</tr>
<tr>
<td>03/03/12</td>
<td>Cub Scout Pack #111</td>
<td>12</td>
<td>13</td>
<td>BNS</td>
</tr>
<tr>
<td>02/01/12</td>
<td>Girl Scout Troop #7259</td>
<td>6</td>
<td>3</td>
<td>BNS</td>
</tr>
<tr>
<td>05/11/11</td>
<td>Amherst Girl Scout Troop</td>
<td>10</td>
<td>4</td>
<td>BNS</td>
</tr>
<tr>
<td>04/20/11</td>
<td>City of Oberlin Public Works Dept.</td>
<td>6</td>
<td></td>
<td>BNS</td>
</tr>
<tr>
<td>04/09/11</td>
<td>Daisy Troop #872</td>
<td>16</td>
<td>5</td>
<td>BNS</td>
</tr>
</tbody>
</table>

Total Number of Presentations: 9
Total Number of Students: 111
Total Number of Adults: 76
Total Number Attendees for Presentations: 187

The District operates a HHW telephone line for residents to call to obtain proper
management methods and alternative products for HHW materials. In 2012, there were
over 3,000 calls about the Collection Center.

The District provides all users of the Collection Center with handouts.

There are radio and newspaper advertisements for all special events.

- **Provide evidence that the facility is a good neighbor.**

The Collection Center has been in operation since June 2010. To date, there have been
no complaints from area residents or businesses regarding operations or traffic. The
District maintains hours that are respectful of the area. The Collection Center closes at
6:00 p.m. on the dates it is open to the public.

The interior of the Center is kept clean and orderly, primarily for reasons of safety and
efficiency, but also to leave a good impression with those who use its services. The
exterior grounds are policed during every working shift, weather permitting. Exterior
lighting is kept in good working order, the electronic sign is updated bimonthly, and all
the directional lines and arrows, as well as all the curbs, are regularly repainted.

Special care is taken to prevent “after-hours” dropoffs of material in front of the gate or
by the building entrance. District staff members driving by at any time and finding items

19
outside will stop and move them into the Center. These are examined for identifying labels or markings. On several occasions, this has led to warning calls from the deputies of the Sheriff’s Environmental Crimes Unit.

Five separate signs warn against this practice, and video cameras have been used on a random basis to sweep the entire front of the Center. This footage is reviewed by the deputies and has also led to several violators being located and warned against repeating the offense. In one case, the individual proved to be a resident of another county; compelled to retrieve their materials, they were provided with instructions on how and where to properly dispose of the items.
THE CITY OF VERMILION

April 22, 2013

Special Waste Awards Committee
Solid Waste Association of North America
1100 Wayne Avenue, Suite 700
Silver Spring, MD 20910

Dear Special Waste Review Committee:

I would like to support the Lorain County Solid Waste Management District’s (District) application for a Special Waste Award from the Solid Waste Association of North America. The District’s Collection Center is a well-run operation that has helped the District accomplish several goals:

- Provide a valuable service to our residents.
- Avoid landfill disposal of potentially hazardous materials.
- Process 2,600 tons for reuse and recycling.
- Recycle materials back to commerce.
- Provide low income residents with a refurbished computer.
- Reduce the overall cost for the collection programs.
- Provide service year around as compared to the previous one-day collections.

We believe the Collection Center serves as a model facility for our city, county and the State of Ohio. We urge the Committee to consider the success of this facility and its well-deserved award.

Sincerely,

Eileen Balian, Mayor

cc: Keith Bailey, District Director
April 21, 2013

Special Waste Awards Committee
Solid Waste Association of North America
1100 Wayne Avenue, Suite 700
Silver Spring, MD 20910

Dear Special Waste Review Committee:

I am pleased to support the Lorain County Solid Waste Management District’s application for the Special Waste Management Excellence Award from the Solid Waste Association of North America.

The District’s Collection Center is a well-run operation that has helped the District accomplish several goals, including:

- Provide a valuable service to our residents.
- Avoid landfill disposal of potentially hazardous materials.
- Process 2,600 tons for reuse and recycling.
- Recycle materials back to commerce.
- Provide a refurbished computer for the collection program.
- Reduce the overall cost for the collection programs.
- Provide service year around.

The City of Oberlin has adopted a Climate Action Plan to reduce our greenhouse gas emissions to below zero by 2050. The Collection Center can be a valuable resource for our residents as we strive to meet our climate goals, and it can serve as a model for others in the State of Ohio. Thus, I believe the Center is deserving of the Special Waste Management Excellence Award.

Sincerely,

Eric Norstenberg
City Manager

cc: Keith Bailey, District Director

April 19, 2013

Special Waste Awards Committee
Solid Waste Association of North America
1100 Wayne Avenue, Suite 700
Silver Spring, MD 20910

Dear Special Waste Review Committee:

I would like to support the application for a Special Waste Award for the Lorain County Solid Waste Management District’s Collection Center located at 540 South Abbe Road in Elyria, Ohio. The District’s Collection Center is a well-run operation that has helped the District accomplish several goals:

- Provide a valuable service to our residents.
- Avoid landfill disposal of potentially hazardous materials.
- Process 2,600 tons for reuse and recycling.
- Recycle materials back to commerce.
- Provide a refurbished computer for the collection program.
- Reduce the overall cost for the collection programs.
- Provide service year around as compared to the previous one-day collections.

I believe the Collection Center serves as a model facility for our city, county and the State of Ohio. I urge the Committee to consider the success of this facility and its well-deserved award.

Sincerely,

G. David Gillock
Mayor

cc: Keith Bailey, District Director

Office of the Mayor, 7307 Abbe Road, North Ridgeville, OH 44039
Phone: 440-353-3811 or 353-0012  Fax: 440-357-8395
Website: www.nridgeville.org
Village of South Amherst

Barbara Becker, Mayor
103 West Main Street
South Amherst, OH 44071
Office: (440) 986-8221
Fax: (440) 986-2270

April 16, 2013

Special Waste Awards Committee
Solid Waste Association of North America
110 Wayne Avenue, Suite 700
Silver Spring, MD 20910

Dear Special Waste Review Committee:

I would like to support the Lorain County Solid Waste Management District’s (District) application for a Special Waste Award from the Solid Waste Association of North America. The District’s Collection Center is a well-run operation that has helped the District accomplish several goals:

- Provide a valuable service to our residents
- Avoid landfill disposal of potentially hazardous materials
- Process 2,600 tons for reuse and recycling
- Recycle materials back to commerce
- Provide low income residents with a refurbished computer
- Reduce the overall cost for the collection programs
- Provide service year-round as compared to the previous one-day collections.

We believe the Collection Center serves as a model facility for our city, county and the State of Ohio. We urge the Committee to consider the success of this facility and its well-deserved award.

Respectfully,

Barbara Becker
Mayor

The City of Lorain, Ohio
Chase Ritenauer
Mayor

April 18, 2013

Special Waste Awards Committee
Solid Waste Association of North America
110 Wayne Avenue, Suite 700
Silver Springs, MD 20910

Dear Special Waste Awards Committee:

I support the Lorain County Solid Waste Management District’s (District) application for a Special Waste Award from the Solid Waste Association of North America. The District’s Collection Center is a well-run operation that has helped the District accomplish several goals including:

- the avoidance of landfill disposal of potentially hazardous materials
- the processing of 2,600 tons for reuse and recycling
- the returning of recycle materials back to commerce
- providing low income residents with a refurbished computer
- the reduction of overall collection program costs
- the tremendously improved and valuable year-round services they provide to the residents in Lorain County

I believe the Collection Center serves as a model facility for the City of Lorain, Lorain County and the State of Ohio. Please consider the numerous successes of this facility when reviewing the District’s application for the Special Waste Award.

Sincerely,

Chase Ritenauer, Mayor
City of Lorain, Ohio

cf: Keith Bailey, District Director

RECEIVED
04/19/2013
Special Waste Awards Committee
Solid Waste Association of North America
1100 Wayne Avenue - Suite 700
Silver Spring, MD 20910

April 17, 2013

Dear Special Waste Review Committee,

I would like to support the Lorain County Solid Waste Management District’s (District) application for a Special Waste Award from the Solid Waste Association of North America. The District’s Collection Center is a well-run operation that has helped accomplish the following multiple goals:

- PROVIDE SERVICE ALL YEAR AROUND as compared to previous one-day collections
- Provide a valuable service to our residents
- Process 7,500 tons for reuse and recycling
- Avoid landfill disposal of potentially hazardous materials
- Recycle materials back to commerce
- Provide low-income residents with a refurbished computer
- Reduce the overall cost for the collection programs

We believe this Collection Center serves as a model facility for our village, county and the State of Ohio. We urge the Committee to consider the success of this facility and its well-deserved award.

Sincerely,

John D. Hunter
Mayor & Safety Service Director
Village of Sheffield

cc: Keith Bailey, District Director

April 17, 2013

Special Waste Awards Committee
Solid Waste Association of North America
1100 Wayne Avenue, Suite 700
Silver Spring, MD 20910

Dear Special Waste Review Committee,

I would like to support the Lorain County Solid Waste Management District’s application for a Special Waste Award from the Solid Waste Association of North America. The Lorain County Solid Waste’s Collection Center is a well-run operation that has helped the District accomplish several goals:

- Provide a valuable service to our residents
- Avoid landfill disposal of potentially hazardous materials
- Process 7,500 tons of reuse and recycling
- Recycle materials back to commerce
- Provide low-income residents with a refurbished computer
- Reduce the overall cost for the collection programs
- Provide service year around as compared to previous one-day collections

We believe the Collection Center serves as a model facility for our city, county and the State of Ohio. We urge the Committee to consider the success of this facility and its well-deserved award.

Sincerely,

David A. Taylor, Mayor

cc: Keith Bailey, District Director
April 1, 2013

Solid Waste Association of North America
1100 Wayne Avenue - Suite 700
Silver Spring, Maryland 20910

To Whom It May Concern:

On behalf of the Hamilton County Recycling and Solid Waste District (District), I am writing to support Lorain County Collection Center’s application for SWANA’s Special Waste Excellence Award. I have had the opportunity to watch this facility grow from planning to execution and am excited to see the impressive results.

The Lorain County Collection Center is a great model for other communities and solid waste organizations to replicate. While many communities have separate collection events for household hazardous waste, e-waste, and tires, Lorain County took the step to increase convenience by having one place for residents to drop-off multiple materials. At the District, we hear from residents quite frequently about the need for a “one stop shop.” Lorain County’s program is just that—it provides an easy-to-use service, reduces multiple trips for residents, and ensures that special waste streams are properly managed. The best part—this program diverts more material at a less cost than the traditional one-day events!

The District is in the process of reviewing our special collection programs. One type of program considered is a drop off for multiple materials. Our research has included the Lorain County Collection Center given the many benefits and successes of this program. This is just one example of an organization looking to replicate Lorain County’s success.

Again, on behalf of the District, I am proud to fully support the Lorain County Collection Center’s application. If you have any questions, don’t hesitate to contact me at (513) 946-7705.

Sincerely,

[Signature]

Holly Christmann