



**NORTH CAROLINA  
RECYCLING BUSINESS  
ASSISTANCE CENTER**

A cooperative effort  
of the N.C. Department of  
Environment and Natural  
Resources and the N.C.  
Department of Commerce.

# Recycling Works

Volume 12, Number 2

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## Second ReStore Opens in Charlotte

by **Matt Ewadinger, RBAC Manager**

Building on the success of its first ReStore, Habitat for Humanity Charlotte recently expanded operations by opening a second location. The new Wendover Road store, with more than 37,000 square feet of retail space, is considerably larger than the original location on Wilkinson Boulevard. In addition to providing storage space for construction materials, this ReStore will serve as affiliate headquarters for Habitat for Humanity Charlotte and will provide living quarters for AmeriCorps volunteers.

According to its Web site, the mission of Charlotte's Habitat ReStores is to "increase the number of homes built for low-income families through Habitat for Humanity of Charlotte." Habitat ReStores and ReUse Centers across the nation take pride in plowing the "profit" made back into home construction, offering home ownership to some that might never have had that chance. In its 23 years of existence, Habitat for Humanity Charlotte has built more than 650 homes.

Habitat provides quality building materials to the general public at discounted prices, keeping usable items out of landfills. All merchandise is donated by individuals and corporations, then sold to the public.

"There is a common misconception by the public that all materials available for sale at the ReStores are used items," said Tim Murphy, Wendover ReStore manager. "Although some donated items fit the 'used' category, a significant amount of what we sell can be classified as 'new' items."

In 2004, the board of directors decided to renovate the original location and began the process of establishing a second ReStore. The new ReStore building previously served as home to a Bi-Lo Supermarket and was vacant for the past four years.

Thanks to Habitat's hard-working staff and many volunteers, the Wendover ReStore

(See **ReStore**, Page 4)



**Habitat for Humanity Charlotte's new ReStore has more than 37,000 square feet of retail space for recovered building materials.**

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## Wake Habitat Deconstruction Service Named “Brightest Emerging Program”



by Matt Ewadinger, RBAC Manager

At its annual conference (see article below), the Carolina Recycling Association named the Habitat for Humanity ReUse Center of Wake County’s Salvage and Deconstruction Program as “Brightest Emerging Program.”

This self-sustaining program, started in May 2003, salvages and deconstructs architectural and construction materials from homes slated for demolition in and around Wake County. The materials are then transported to the ReUse Center for sale to the general public.

The program diverted more than 140 tons of construction and demolition debris and generated 10 percent of the ReUse Center sales in fiscal year 2004-05, earning enough revenue to sponsor the construction of two Habitat homes. The program’s ambitious goal for 2005-06 is to divert 450 tons of C&D debris, a 300 percent increase from the previous year.

The current operation recovers material by the “strip-out” method, salvaging high-value materials such as cabinets, hardwood flooring, windows, doors, air conditioning units, appliances and architectural structures. Strip-outs are accomplished in a short period of time and the salvaged items sell quickly at the ReUse Center store.

As the program expands, staff will incorporate “full deconstruction” into the operation. Full deconstruction focuses on salvaging and recycling the materials from the entire house. This technique requires more time and labor, but maximizes the reclamation of materials. Habitat staff estimate that a minimum of 30 tons of material per house can be diverted by the full deconstruction method, compared to between five and seven tons using the strip-out method.

In addition to the dedicated staff, hundreds of volunteers from civic, youth, church and corporate groups participate in the program. In fact, The Remodeler’s Council of The Home Builders Association of Raleigh-Wake County has pledged to actively recruit volunteers by requiring eight hours of service from each member in 2006. The council also actively promotes the program by encouraging its members to contact Habitat with potential homes for deconstruction.

Congratulations to the Habitat for Humanity ReUse Center of Wake County’s Salvage and Deconstruction Program for this well-deserved award. For more information, contact Joel Lubell, deconstruction coordinator, at (919) 264-0032, or [decon@habitatwake.org](mailto:decon@habitatwake.org). Check out the program’s Web site at <http://www.habitatwake.org/Reusedecon.htm>.

## Carolina Recycling Association Conference Highlights

by Sherry Yarkosky, Market Development Specialist

The 16th annual Carolina Recycling Association Conference and Trade Show was held in March in Raleigh. This year’s conference and accompanying tours were a huge success.

### Novozymes Tour

One of the four tours included Novozymes North America Inc. Nature’s GREEN-LEAF Compost and Mulch Production Facility. Frank Franciosi, NZNA composting manager, gave a behind-the-scenes tour of the world’s largest producer of industrial enzymes’ composting facility. Enzymes produced at the Franklinton facility are used in the baking, brewing, detergent and ethanol industries.

Franciosi explained that what started out as a project to compost the facility’s internal waste byproducts has blossomed into an outlet for neighboring municipal and industrial wastes. Finished compost is sold in bulk through wholesalers.

(See [Conference](#), Page 3)



**CRA tour group participants listen as Novozymes’ Frank Franciosi describes the company’s composting operations.**

## Conference, from page 2

### Recyclers Meet With Legislators

One of the most interesting and well-attended sessions was the **N.C. Political Forum**. Diverging from the typical conference presentation format, this session involved direct interaction between North Carolina recyclers and N.C. Sens. Janet Cowell (Wake County) and Stan Bingham (Davidson County).

Four of the state's recyclers shared experiences and issues their businesses face. Steve Rowlan with Nucor Steel shared his industry's experience with the legislative process for getting mercury switches removed from end-of-life vehicles. Brett Rhinehardt with Charlotte-based electronics recycler Computel expressed the need for North Carolina to develop legislation to address the growing problem of e-waste. Noel Lyons, president of McGill Environmental Systems, and Tamsin Ettefagh, vice president of Envision Plastics, both emphasized the need for more feedstock to help their businesses grow.

Cowell and Bingham shared their support for recycling legislation, discussed upcoming opportunities to advance recycling and talked about the hurdles they face in the legislative process. Bingham also shared his personal experience recycling used cooking oil as fuel for his diesel automobile.



**Instrumental in passing 2005 recycling legislation, Rep. Joe Hackney (center) receives CRA's "Political Leader of the Year" award from CRA President Laurette Hall (left) and CRA Executive Director Kerry Krumsiek (right).**

### 2005 Legislation

After a decade of recycling legislation stagnation, three new recycling bills were passed in 2005. The conference was a venue for attendees to learn about and begin planning for the new recycling laws. Additionally, the conference was a means to thank the individuals that were instrumental in getting these progressive laws passed.

Rep. Joe Hackney was responsible for introducing two of the three major pieces of last year's recycling legislation: H1465, banning the disposal of clean wood, wood pallets, oil filters and plastic bottles, and H1518, requiring ABC license holders to recycle beverage containers. For his advocacy and support for recycling, Hackney received the "Political Leader of the Year" award from the association at the conference.

Laura DeVivo, legislative staff to Hackney, played an essential role in helping H1465 and H1518 succeed. Laura provided guidance to the representative and gathered data and information to support the bills. Because of her actions in support of recycling, Laura DeVivo was presented the "Behind the Scenes" award at the conference. This award honors an individual not in a managerial role who has advanced recycling.

### What's Next?

This year's conference provided many networking and professional development opportunities. The enthusiasm that recycling professionals have for the work they do is energizing. Now is the time to harness that post-conference energy and do great things to advance recycling and waste reduction in 2006. Stay tuned for information about CRA's 2007 conference. For more information or to get involved in next year's conference, contact CRA at (919) 545-9050.


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## ReStore, from page 1

celebrated its grand opening on Feb. 25, 2006. The grand opening was preceded by a floor-to-ceiling renovation. In fact, many of the doors, windows and other construction material came from ReStore's own stock.

With two locations to serve the Mecklenburg County area, the ReStores have set an ambitious goal to provide funding to build between 10 and 12 new Habitat homes each year. For more information about the Wendover ReStore, contact Tim Murphy at (704) 716-7044. For more information about the Wilkinson ReStore, contact Joe Muse at (704) 295-4495. Or visit ReStore's Web site at <http://www.charlotterestore.org/>.

### Charlotte Habitat ReStore Expansion Made Possible by Self-Help Ventures Fund

When Habitat for Humanity Charlotte needed a loan to finance the new ReStore (see article on p. 1), it turned to Self-Help Ventures Fund, North Carolina's community development banking group.

Self-Help's loans totaled \$4.7 million, taking advantage of two different programs to help make the deal happen: the North Carolina Recycling Loan Fund and the federal New Market Tax Credit program.

The Recycling Loan Fund is a partnership loan fund between the N.C. Department of Environment and Natural Resources and Self-Help with the express purpose of lending to recycling related businesses. The New Markets Tax Credit program was designed to provide additional incentives to investors to finance transactions in impoverished communities.

## N.C. Pallet Recyclers Employ More Than 1,000

*By Sherry Yarkosky, Market Development Specialist*

In late 2005 and early 2006, RBAC staff conducted a survey of the North Carolina pallet recycling industry to provide baseline employment and recycling tonnage data. Data collected is intended to help track the effect of the recent pallet disposal ban (HB 1465) on companies recycling these materials in the state.

Results of the survey show that the pallet recycling industry employs more than 1,000 full-time employees with more than 620,000 tons of North Carolina pallets being remanufactured into new pallets or made into value-added products such as mulch or boiler fuel. Almost half of respondents believe the pallet ban will help keep valuable feedstock out of landfills and in turn help their businesses grow.

We appreciate the candor and valuable information industry representatives provided. The ban will be implemented Oct. 1, 2009, and we will continue to monitor its effects on employment and landfill diversion.

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North Carolina is poised to become a dynamic marketplace for biomass, which includes materials such as wood, wood waste, energy crops, food waste, grease and oil, agricultural waste and animal byproducts. To help this marketplace develop, energy and fuel producers, composters and manufacturers of bio-based products will need supplies to grow their businesses, just as agricultural, commercial and industrial generators of biomass and biomass waste will need outlets for their materials.

If only there was one place that everyone involved in North Carolina's biomass economy could go to buy, sell and trade materials. That place does exist with a

new, free service called N.C. BiomassTrader. With a simple login process and easy-to-find listings of wanted and available materials, <http://www.ncbiomasstrader.com/> can help biomass suppliers and markets find each other. Participants in NC BiomassTrader cannot only conduct valuable business through the Web site, they can also find links to many sources of information and assistance on biomass issues.

Everyone involved in the production and use of biomass is encouraged to use and spread the word about N.C. BiomassTrader and help grow the biomass market in North Carolina.



## Set for Update

by Matt Todd, Market Development Specialist

One of the most popular resources offered by N.C. DPPEA will get a thorough update this summer. The N.C. Recycling Markets Directory, <http://www.p2pays.org/dmrm>, will have the same look, but all the listings will be reviewed for accuracy. The markets directory currently lists more than 770 companies under a wide range of categories serving various recycling needs in North Carolina.

This work will be done in three phases. The first phase will allow companies to update their information. This can be done one of two ways: 1) by going to the company listing in the Markets Directory and choosing the link "Correct Your Company Information," and following the prompts, or 2) by completing a form that will be sent via e-mail or U.S. Postal Service (for those without e-mail). This form can then be e-mailed or faxed back to DPPEA. Look for the official e-mail/mail announcement by May 1, 2006.

During phase two of this process, DPPEA staff will call companies listed in the Markets Directory that did not update their information in phase one. If your company's information has not been updated, expect a call in June and/or July for details about your contact information and materials you accept for recycling. Phase three will take place in August and will wrap up

any loose ends from phases one and two. Our goal is to have a completely updated N.C. Recycling Markets Directory by Sept. 1, 2006.

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## DPPEA Grant Update

by Matt Todd, Market Development Specialist

In the latest Recycling Business Development Grant Round, DPPEA received 25 proposals requesting a total of \$950,000 and leveraging more than \$9.6 million in matching funds. The estimated annual diversion of materials from landfills from the proposed projects totals approximately 125,000 tons per year.

DPPEA is in the process of determining grant recipients and making contract awards. Individual grant awards must not exceed \$30,000 with a total of \$300,000 available. Grant winners and project descriptions will be described in the summer 2006 issue of *Recycling Works*.

## New Resources Available for Banned Materials

By Scott Mouw, Community & Business Assistance Section Chief

As discussed in the fall 2005 issue of *Recycling Works* (see <http://www.p2pays.org/ref/34/33998.pdf>), the N.C. General Assembly in 2005 passed two major recycling bills: H1465, banning additional materials from disposal (oil filters, wooden pallets, plastic bottles and oyster shells) and H1518 requiring ABC Commission permit-holders to recycle beverage containers. In passing the bills, the General Assembly recognized that a basic recycling infrastructure exists for the targeted commodities and that markets can absorb more of these materials. The bills represent a major growth opportunity for the state's recycling businesses, especially in interaction with local government recycling collection programs that can also be expected to expand.

To assist in the successful implementation of the bills, DPPEA has developed a series of Web pages with extensive information on the banned commodities and the ABC requirements. The pages include fact sheets for local government programs and material generators, case studies, market lists and links to the bills. The pages are viewable at: <http://www.p2pays.org/localgov/> along with a copy of a presentation DPPEA made recently at the Carolina Recycling Association conference: <http://www.p2pays.org/ref/38/37861.pdf>.

### LOANS FOR RECYCLING COMPANIES

A Project of the N.C. Environmental Loan Fund

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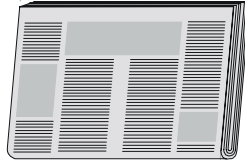
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[www.self-help.org](http://www.self-help.org)

N.C. Environmental Loan Fund: Self-Help established the N.C. Environmental Loan Fund to provide financing to small businesses and other organizations that preserve our natural resources. Projects that are targeted for financing include recycling firms, land conservancies, environmental consulting and services, environmental equipment firms, and sustainable development products and services. Self-Help has extended more than \$6 million in financing to this growing and important segment of our economy.

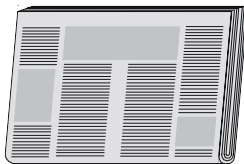
Feel free to call DPPEA at (919) 715-6500 if you have any questions about this new legislation.

## Recyclers in the News



### New Life Plastic Recycling Inc.

Not sure what to do with those irritating free Internet service promotional CD ROMs? Burlington's New Life Plastic Recycling Inc. wants them, as well as DVDs and jewel cases for recycling. New Life Plastic Recycling asks that CD ROMs, DVDs and jewel cases be separated and that all paper is removed before mailing them to New Life Plastic Recycling Inc. at P.O. Box 945, Burlington, N.C. 27216. If you generate gaylord quantities of materials, contact Tim Olson at (336) 222-7775. New Life Plastic Recycling also takes film scrap and most other types of plastics for recycling. New Life Plastic Recycling can be found on the Web at <http://www.newlifeplastics.com/>.



### IRS – Innovative Recycling Services Inc.

In this season of tax-time, IRS (Innovative Recycling Services Inc.) is "Making Waste Less Taxing on the Environment" in

Guilford County. Gary Bilbro and partner Tim Sellers announced the facility in Guilford County would be open to handle various wood waste by May 1 and plan to have a type III compost facility permitted by Sept. 1, 2006. The new IRS compost facility will also be permitted to except food waste.

*Recycling Works* is published by the N.C. Recycling Business Assistance Center, a program of the Division of Pollution Prevention and Environmental Assistance of the N.C. Department of Environment and Natural Resources. For more information call (919) 715-6500 or (800) 763-0136, or write to DPPEA, 1639 Mail Service Center, Raleigh, NC 27699-1639.

Michael F. Easley, Governor, North Carolina  
William G. Ross Jr., Secretary, Department of Environment and Natural Resources



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*The Recycling Business Assistance Center is a program of the North Carolina Division of Pollution Prevention and Environmental Assistance.*

Call (919) 715-6500 or (800) 763-0136 for free technical assistance and information about preventing, reducing and recycling waste.



## North Carolina market prices for recyclables

Prices current as of April 27, 2006

Item	Western Region	Central Region	Eastern Region
<b>METALS</b>			
Aluminum Cans, lb. loose	\$0.86	\$0.37	\$0.905
Steel cans, gross ton baled	\$109	\$106	\$50
<b>PLASTICS</b>			
Central Region markets plastics together			
PETE, lb. baled	\$0.18	\$0.17	\$0.18
HDPE, lb. baled	Natural	\$0.38	\$0.40
	Colored	\$0.25	\$0.27
<b>PAPER</b>			
Newsprint, ton baled	\$80	\$70	\$77.55
Corrugated, ton baled	\$75	\$65	\$78
Office, ton baled	\$90 (SOP)	\$100 (SOP)	\$170 (white ledger)
Magazines, ton baled	*	\$100	**
Mixed, ton baled	\$50	\$40	\$45
<b>GLASS</b>			
Eastern Region sells glass F.O.B. origin			
Brown, ton crushed delivered	\$15	\$16	\$21
Clear, ton crushed delivered	\$25	\$26	\$17
Green, ton crushed delivered	-\$7	\$0	(\$9)

\*Markets with mixed paper.  
\*\*Markets with newsprint.

Note: Prices listed above are compiled by RBAC and are for reference only. These prices are not firm quotes. RBAC obtained pricing information from processors for each category and developed a pricing range.

Visit RBAC online at <http://www.p2pays.org/rbac>

DPPEA-FY05-09