



# The North Carolina **Recycling Business Assistance Center**

*“Recycling Industry Economic Developers”*



## Green Square



The Green Square Complex is a two-block, multi-use sustainable development project that will bring North Carolina's state environmental offices and a nationally significant Nature Research Center (NRC) to the heart of North Carolina's capital city.



# Green Square

## Waste Reduction Activities

DENR developed a materials management plan. The goal of this plan was to assist in identifying materials, and the steps to be taken in each phase of deconstruction/demolition, site preparation, and construction to minimize the amount of material headed to landfills.



The materials management plan was included in the demolition specifications for Green Square.



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Monthly reporting was required by the demolition contractor, and they were supplied a reporting form by DENR.

List Recycle, Salvage, MRF, or Landfill	Type of material	Quantity(tons)	Destination - name of landfill, recycling facility, or other recipient	Hauler name	Cost of handling & transp.	Revenue or tip fee	Total cost
Recycle	Wood	30 tons(60 yds)	Buffaloe Landfill	Ralph Nance	\$125.00	\$110.00	\$235.00
Recycle	Mixed Metal	246.81 tons	Lee Iron and Metal	Ralph Nance	\$8,500.00	-\$88,740.50	-\$80,240.50
Recycle	Brick/Mixed	1,800 tons(2,100 yds)	Thompson, Turner	Ralph Nance	\$7,500.00	\$2,220.00	\$9,720.00
Recycle	Clean Concrete	570 tons	Thompson Contracting	Ralph Nance	\$2,375.00	\$0.00	\$2,375.00
Recycle	Brick/Mixed	385 tons	Sunrock LLC	Ralph Nance	\$2,000.00	\$316.45	\$2,316.45
Recycle	Doors/Windows	5.1 tons	Habitat for Humanity	Habitat	\$0.00	\$0.00	\$0.00
<b>TOTAL COST</b>							<b>-\$65,594.05</b>



# Green Square

Monthly reporting for March – May 2008:

Action	Type of material	Weight (tons)
Recycle	Wood	150.0
Recycle	Clean Concrete	878.0
Recycle	Brick/Mixed	2,834.0
Recycle	Drywall	13.7
Recycle	Mixed Metal	616.8
Recycle	Mixed Steel	4.8
Recycle	Mixed Copper	0.1
Salvage	Doors/Windows	5.1
Landfill	Mixed Misc.	53.9
<b>Total</b>	<b>All Material</b>	<b>4,556.4</b>
	<b>Recycled/Salvaged Material</b>	<b>4,502.5</b>
	<b>% Recycled</b>	<b>98.8%</b>



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The total cost saving when compared to landfilling the demo material is approximately \$359,000. Here's a breakdown of the costs and revenues of the material managed during the demolition phase for the Green Square Complex:

Type of material	Weight (tons)	Cost of handling/transport	Cost of recycling/disposal
Wood	150.0	\$625.00	\$610.00
Clean Concrete	878.0	\$5375.00	\$1,890.00
Brick/Mixed	2,834.0	\$12,875.00	\$3,380.00
Drywall	13.7	\$500.00	\$148.00
Mixed Metal	616.8	\$18,000.00	(\$215,368.00)
Mixed Steel	4.8	\$500.00	(\$907.00)
Mixed Copper	0.1	\$150.00	(\$400.00)
Doors/Windows	5.1	\$0.00	\$0.00
Mixed Misc.	53.9	\$1,125.00	\$837.00
<b>Total</b>	<b>All Material</b>	<b>\$39,150</b>	<b>(\$209,810)</b>



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# Thank You!

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