



Final Recycling Report
**Froedtert and Medical College of Wisconsin
 Clinical Cancer Center**
Mortenson Construction
 December 2008

WasteCap Wisconsin collected records from haulers to document the weight of trash, reusable and recyclable materials removed from the project site; and created summaries from these records to report the quantity of each material recycled and reused.

In this report, the documentation of this project consists of the following tables:

1. TABLE 1- Total Recycling Rate including Demolition of Parking Garage.
2. TABLE 2- Total Recycling Rate **NOT** including Demolition of Parking Garage.

This report also includes additional haul information including:

3. TABLE 3- Materials Intended to be recycled but were not recycled.
4. TABLE 4- Total Recycling Rate if all materials were properly recycled **NOT** including Demolition of Parking Garage.
5. TABLE 5- Materials Not accounted for. (Listed as recycled, but not invoiced)
6. TABLE 6- EPA Conversion Rates.

Table 1- Total Recycling Rate Including Demolition of Parking Garage April 2006 through April 2008				
Material	Trash		Recycling and Reuse	
	Volume (Cubic yards)	Weight (Tons)	Volume (Cubic yards)	Weight (Tons)
Cardboard	30	3.23	700	43.50
Commingled	0	0	28	.70
Concrete	0	0	39,212	19,747.26
Drywall	90	36.50	150	30
Metal	0	0	8,338.60	1,032.67
Office Paper	0	0	84	15.96
Reuse	0	0	17.56	2
Wood	300	39.30	1,880	230.84
Yard Waste	0	0	30	8.25
Trash	4,820	933.41	0	0
Total	5,240	1,012.44	50,440.16	21,111.18
Recycling Rate by Weight: 95.77%				
Recycling Rate by Volume: 91.28%				

Recycling Results. Table 1 shows the current total waste and recycling results from this project. A total of 22,124 tons of debris was generated, and 1,012 tons of debris was actually landfilled. The rest was recycled or reused – cardboard was recycled into new paper products, metal recycled into new metal products; concrete and masonry were crushed and used as road base or aggregate for new concrete.



Final Recycling Report
Froedtert and Medical College of Wisconsin
Clinical Cancer Center
Mortenson Construction
 December 2008

Table 2- Total Recycling Rate NOT Including Demolition of Parking Garage
April 2006 through April 2008

Material	Trash		Recycling and Reuse	
	Volume (Cubic yards)	Weight (Tons)	Volume (Cubic yards)	Weight (Tons)
Cardboard	30	3.23	700	43.50
Commingled	0	0	28	.70
Concrete	0	0	412	347.26
Drywall	90	36.50	150	30
Metal	0	0	610	152.42
Office Paper	0	0	84	15.96
Wood	300	39.3	1,880	230.84
Yard Waste	0	0	30	8.25
Trash	4,820	933.41	0	0
Total	5,240	1,012.44	3,894	828.93
Recycling Rate by Weight: 47.04%				
Recycling Rate by Volume: 44.69%				

Table 3- Materials NOT Recycled Materials intended to be recycled but were not due to contamination or market conditions.
April 2006 through April 2008

Material	Trash		Recycling and Reuse	
	Volume (Cubic yards)	Weight (Tons)	Volume (Cubic yards)	Weight (Tons)
Cardboard	30	3.23	0	0
Drywall	90	36.50	0	0
Wood	300	39.3	0	0
Total	420	79.03	0	0



Final Recycling Report
Froedtert and Medical College of Wisconsin
Clinical Cancer Center
Mortenson Construction
 December 2008

Table 4- Hypothetical Recycling Rate If All Materials had been recycled NOT Including Demolition of Parking Garage April 2006 through April 2008				
Material	Trash		Recycling and Reuse	
	Volume (Cubic yards)	Weight (Tons)	Volume (Cubic yards)	Weight (Tons)
Cardboard	0	0	750	47.43
Commingled	0	0	28	.70
Concrete	0	0	432	357.26
Drywall	0	0	240	66.50
Metal	0	0	680	160.82
Office Paper	0	0	84	15.96
Wood	0	0	2,240	277.56
Yard Waste	0	0	30	8.25
Trash	4,400	854.73	0	0
Total	4,400	854.73	4,484	934.48
Recycling Rate by Weight: 52.23%				
Recycling Rate by Volume: 50.47%				

Table 5- Materials NOT Invoiced April 2006 through April 2008				
Material	Trash		Recycling and Reuse	
	Volume (Cubic yards)	Weight (Tons)	Volume (Cubic yards)	Weight (Tons)
Cardboard	0	0	20	.70
Concrete	0	0	20	20.00
Metal	0	0	70	8.40
Wood	0	0	60	7.42
Total	0	0	170	36.52



Final Recycling Report
**Froedtert and Medical College of Wisconsin
Clinical Cancer Center**
Mortenson Construction
December 2008

Conversion Figures. In order to calculate the volume or the weight of materials for which complete data was not available, conversion figures were used. WasteCap WI used the following numbers from the United States Environmental Protection Agency (EPA).

Table 6: Conversion Figures

EPA Conversion (1)	Trash	Cardboard	Metal	Wood	Concrete
Average Yards Per Ton	5.71	20	7.4	5.26	.5
Average Tons Per Yard	0.175	0.05	0.135	0.19	2

EPA Standard Volume-to-Weight Conversion Factors:

http://www.epa.gov/epawaste/conserve/tools/recmeas/docs/guide_b.pdf