

## CONSTRUCTION WASTE MANAGEMENT

## CASE STUDY

A landfill audit conducted by the EPA (Environmental Protection Agency) in 2000 shows that 53.1% by weight of the waste that is dumped in the landfill is generated from construction and demolition waste activity. This study is based on a 134,300 sq ft tilt wall, speculative, office building. The project generated a total of 585,636 lbs of construction waste of which approximately 407,172 lbs (69.5%) is concrete, 131,307 lbs (22.5%) is trash, 25,287 lbs (4.3%) is wood, 12,611 lbs (2.2%) is metal and 9,259 (1.5%) lbs is paper. The total waste recycled on this project was **77.5%**. Percentages of material waste generated will vary from project to project.

**There are 3 ways to manage construction waste.**

- 1. Send it directly to a landfill.**
- 2. Sort-off site method.**
- 3. Single vendor sort-on site method.**

<b>SCENARIO 1: DIRECTLY TO LANDFILL</b>		<b>Total Cost: \$28,281.50*</b>
	Item wise Cost	
Transport		-\$18,540
Labor		-\$3,000
Tipping Fees for concrete		-\$3,241.60
Tipping Fees for metal, wood, paper and trash		-\$7,492.50
Total Cost		-\$28,281.50

<b>SCENARIO 2: SORT-OFF SITE</b>		<b>Total Cost: \$22,600 - \$35,350*</b>
	Item wise Cost	
All waste separated at an off-site recycling center		
Agency 1		-\$22,600
Agency 2		-\$26,660
Agency 3		-\$28,910
Agency 4		-35,350

<b>SCENARIO 3: SINGLE VENDOR SORT-ON SITE</b>		<b>Total Cost: \$22,296*</b>
	Transport	
Transport		-\$17,496
Labor		-\$4,800

\* Our calculations are based on quotes from the following vendors – Action Trucking, Republic Waste Services, Gainsborough Waste, Lone Star Disposal and Sprint Fortbend County Landfill. Transportation cost varies from one site location to another. An extended list of vendors along with their contact information and services is provided at the back.

**CONSTRUCTION WASTE MANAGEMENT**

**CONTACT INFORMATION**

<b>SCENARIO 1: Directly to landfill</b>			
<b>ALL CONSTRUCTION WASTE (Concrete w/ Rebar, Metal, Wood, Paper and Trash)</b>			
#	Company name	Contact Information	Description
1	Action Trucking	713 829 5190	Fees include transportation to the landfill and tipping fee.
<b>SCENARIO 2: Sort off-site</b>			
<b>ALL CONSTRUCTION WASTE (Concrete w/ Rebar, Metal, Wood, Paper and Trash)</b>			
1	Gainsborough Waste	Butch Gibbs Direct No:281 932 3915 713 785 8050	Will not pay for material. Transport provided for a fee.
2	Lone Star Waste	Steve Meyers Direct No:713 433 4574 713 466 6767	Will not pay for material. Transport provided for a fee.
3	Republic Waste Services	Ruben Munoz. Direct No:713 545 6626 713 849 0400	Will pay for material. Transport provided for a fee.
<b>SCENARIO 3: Single Vendor sort on site</b>			
<b>ALL CONSTRUCTION WASTE (Concrete w/ Rebar, Metal, Wood, Paper and Trash)</b>			
1	Sprint Fortbend County Landfill	Reagan Swinbank Direct No: 832 309 1215	Will not pay for material. Transport provided for a fee.
<b>INDIVIDUAL MATERIAL VENDORS</b>			
<b>CONCRETE AND STEEL</b>			
1	Cherry Crushed Concrete	Mary Sparks 713 731 2040	Will not pay for material. Transport provided for a fee.
	Cherry Steel	George Redumis	Will not pay for material. Transport provided for a fee.
2	RAC Materials	Tommy Hymel 281 255 8500	Will not pay for material. No transport provided.
3	Southern Crushed Concrete	Saul Chapa 281 987 8789 281 987 3364	Will not pay for material. Transport provided for a fee.
<b>PAPER</b>			
1	ACCO Waste Paper of Houston	Sissy Wilkins 713 227 6541	Will not pay for material. Transport provided for a fee.
2	Vista Fiber	Mike Ortiz <a href="mailto:mortiz@vistafibers.com">mortiz@vistafibers.com</a> 713 461 9933	Will pay for material. Transport provided for a fee.
<b>WOOD</b>			
1	Novus Wood Inc	Billy Oldigs 281 381 9150	Will charge for material. No transport provided.
<b>ALL METALS ( Aluminum, Brass, Copper, Iron and Steel)</b>			
1	A-I Iron & Metal Company, Inc	Gina Roy 713 228 5720	Will pay for material. Transport provided for a fee/ Free transport may be available.
<b>NON-FERROUS ALLOYS</b>			
1	Ace Scrap Metal Recycling	Charlie Laviage 713 643 9922	Will pay for material. No transport provided.
2	Altech Metals Inc	Heztor Fernandes	Will pay for material. Transport provided for a fee/ Free transport may be available.
3	Gulf Coast Scrap Metal	Eduardo Valenzuela 713 868 4111	Will pay for material. No transport provided.