

## Marin JPA Model Waste Management Plan

Many of the materials generated from your project can be recycled. You are required to list materials that will be reused, recycled or disposed from your project.

*The required goal is to reuse or recycle at least 50 % of project waste.*

Use tons to quantify total estimated waste and percentages for materials. Volume to weight conversion factors are attached. Ask your hauler, recycler or site cleanup vendor to assist you with this plan. Receipts of all recycling and disposal must be submitted after project completion.

Project Name: \_\_\_\_\_

Location: \_\_\_\_\_

Building Type: \_\_\_\_\_

Square Footage or Number of Units: \_\_\_\_\_

Type of Project:       New Construction       Demolition

Type of Construction (wood frame, concrete, steel, etc.): \_\_\_\_\_

Applicant: \_\_\_\_\_ Phone: \_\_\_\_\_

Company Name: \_\_\_\_\_

See attachments for:

- Conversion Rates
- Agency Approved Recyclers, companies approved by City staff that guarantee at least 50% diversion of project waste generated (To be generated by participating City)

Questions? Call (City staff) \_\_\_\_\_

Submit this form and the attached Waste Management table to:

## Demolition or Remodel

Total Estimated Waste Generated by Project: \_\_\_\_\_ tons  
 (Refer to attached conversion rates or ask your hauler, recycler or site cleanup vendor to assist you. Use receipts from your previous jobs for estimates)

Material	Estimated Percentage	Reused/ Recycled Tons	Disposed Tons	Vendor or Facility	Actual Tonnage Amount/ Comments
Asphalt/Concrete					
Dirt					
Brick/Masonry					
Wood					
Metals					
Doors, windows, cabinets, fixtures					
Other (painted wood, drywall)					
Trash					

Is “deconstruction” or salvage considered as an option to traditional demolition?  
 Yes       No

If “no”, explain:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Other Comments:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

## New Construction

Total Estimated Waste Generated by Project: \_\_\_\_\_ tons  
 (Ask your hauler, recycler or site cleanup vendor to assist you. Use receipts from your previous jobs for estimates)

Material	Estimated Percentage Tons	Reused/ Recycled Tons	Disposed	Vendor or Facility	Actual Tonnage Amount/ Comments
Asphalt/Concrete					
Dirt					
Wood					
Metals					
Drywall					
Cardboard					
Other (carpet, roofing, plastics)					
Trash					

Did you recycle your jobsite waste in the past?  Yes  No

Did you use a jobsite cleanup service to recycle your waste?  Yes  No

Did you have difficulties finding recycling vendors?  Yes  No

If there are no plans to recycle jobsite waste, explain why:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Other Comments:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

<b>Material Conversion Rates (Weight and Volume) <sup>a</sup></b>			
<b>Material</b>	<b>Lbs/cy</b>	<b>Tons/cy</b>	<b>Cy/ton</b>
Wood	300 lbs/cu.yd.	0.15 tons/cu.yd.	6.7 cu yds/ton
Cardboard	100 lbs/cy.yd.	0.05 tons/cu.yd.	20 cu yds/ton
Drywall	500 lbs/cu.yd.	0.25 tons/cu.yd.	4 cu.yds/ton
Concrete/Asphalt	1400 lbs/cu.yd.	0.7 tons/cu.yd.	1.4 cu. yds/ton
Mixed Waste	350 lbs/cu.yd.	0.175 tons/cu.yd.	5.7 cu.yds/ton

<b>Estimated Project Waste Generation</b>	
<b>Type of Project</b>	<b>Waste Generation of Pounds/square foot</b>
Residential Construction (New) <sup>b</sup>	3.71
Non Residential Construction (New) <sup>c</sup>	3.89
Residential Demolition <sup>c</sup>	115.00
Non Residential Demolition <sup>c</sup>	155.00
Residential Renovation <sup>b</sup>	12.03

<b>Estimated Project Waste Material Content <sup>c</sup></b>	
<b>Residential New Construction Debris</b>	
Wood	67%
Drywall	20%
Concrete	5%
Metals	0.4%
Miscellaneous	8%
<b>Residential Renovation Debris</b>	
Wood	45%
Drywall	21%
Roofing	28%
Miscellaneous	6%
<b>Residential Demolition Debris</b>	
Wood	42%
Concrete	24%
Metals	2%
Miscellaneous	32%
<b>Non-Residential Demolition Debris</b>	
Wood	16%
Concrete	66%
Brick	1%
Metals	5%
Asphalt	2%
Roofing	1%
Miscellaneous	9%

Use the above conversion factors and receipts from previous projects to help you estimate the potential amount of recyclable materials and waste from your project. Again, your hauler or recycler may assist you in estimating these numbers.

<sup>a</sup> Efficient Building , Metro Solid Waste Department, Portland, Oregon, 1994

<sup>b</sup> Metro Regional Environmental Management. Portland, Oregon. 1997

<sup>c</sup> US EPA, Characterization of Building-Related Construction and Demolition Debris in the United States, 1998