

APPLICANT: Please respond by marking an "X" next to the appropriate category below:

The project you are proposing will involve:

- a) development of more than one residential unit;
 b) non-residential development with a project area of **5,000 square feet or greater**;
 c) a non-residential demolition and/or renovation project of **10,000 square feet or greater**; OR
 d) none of the above.

**Do Your Share to
Reduce and Recycle your C&D Waste!**

A state law known as "AB 939" requires every city in California to divert 50% of its solid waste from landfills each year. Failure to comply could mean fines of up to \$10,000 per day on the City.

Diversion of Construction & Demolition (C&D) waste is essential to the City of Irvine's compliance with AB939 and other related State mandates. In response, the City has adopted a C&D Recycling Ordinance now in effect that places waste diversion requirements on larger-scale demolition and development projects.

If you marked a), b), or c) above, your project will be subject to the waste planning, reporting, and fee deposit provisions of this City Ordinance requiring that you recycle or otherwise divert from landfills 75% of all concrete/asphalt waste and 50% of all other debris generated by your construction or demolition project. Even if you marked d) above and are, therefore, exempt from the Ordinance, you are strongly encouraged to recycle these materials and your project must also utilize **only** City-authorized haulers to collect and transport non-hazardous C&D waste (*see attached list*).

According to the California Department of Resources Recycling and Recovery's (CalRecycle) 2004 *Statewide Waste Characterization Study*, C&D debris accounts for almost 22 percent of the disposed waste stream. Common C&D materials include lumber, drywall, metals, masonry (brick, concrete, etc.), carpet, plastic, paper, cardboard, or greenwaste related to land development. Of these, metals are the most commonly recycled material while lumber makes up the majority of debris that still goes to a landfill.

However, all of these materials can be recycled into other products. Some materials contain hazardous components (e.g., asbestos, lead, etc.) and require special handling and disposal. Anyone renovating or constructing a residential or commercial property has an opportunity to significantly contribute to resource conservation through the reduction, reuse, and recycling of C&D waste.

Reducing, reusing, and recycling C&D materials is an important component of a larger, holistic practice called "sustainable" or "green" building. More than 80 percent of green buildings certified by the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED™) program divert at least 50 percent of C&D waste. Sixty percent of the buildings divert 75 percent or more C&D waste.

The key to successful C&D reduction, reuse, and recycling is early planning. Working with an architect can help to avoid sending useful demolition material to the landfill. You can request Waste Management Plan forms from the City that can guide you in this process. You will also want to select a building contractor with a favorable attitude toward C&D reduction, reuse, and recycling. Here are some tips and resources to help you get started:

REDUCE: Preventing Waste

- ♦ Use durable materials
- ♦ Apply dimensional planning to design
- ♦ Avoid unneeded materials
- ♦ Design for deconstruction

REUSE: Resources and Whole Buildings

- ♦ Use salvaged and refurbished products
- ♦ Encourage deconstruction rather than demolition

RECYCLE: Divert C&D from Landfills

- ♦ Use C&D waste management plans
- ♦ Require contractors to recycle their waste
- ♦ Allocate space for storage and collection of recyclables

BUY RECYCLED: Close the Loop

- ♦ Purchase recycled-content products
- ♦ Maximize post-consumer content
- ♦ Ensure products are recyclable at the end of their useful life

Where to Take C&D Materials to Be Recycled

C&D Debris Recyclers Database. Access this online database at www.calrecycle.ca.gov/ConDemo/Recyclers to find hundreds of sites throughout California that receive construction and/or demolition materials for recycling or reuse. Entries are sorted by county. Material categories include asphalt, concrete, brick, appliances, flooring, glass, drywall, paint, plastic, and wood. You can also obtain a listing of recycling, C&D, and greenwaste processors located throughout Orange County at egov.ocgov.com/vgnfiles/ocgov/OC%20Waste/Docs/Recycling,Const&Demo,GrnWst,%20ProcessingCoList,June2009.pdf

Additionally, **FreeCycle** and **Craigslist** are community-based materials exchange networks with local sites.

Habitat for Humanity accepts new and almost-new construction materials for use in their construction projects or for sale in their ReStore. Visit www.habitatoc.org for more information.

Where to Find Building Materials and Furnishings Made From Recycled Materials

Recycled-Content Product Database. This database has thousands of listings of recycled-content products. It is available on the CIWMB website at www.calrecycle.ca.gov/RCP/. For recycled-content construction products only, this website lists hundreds of manufacturers (and a few distributors) of recycled-content construction products sold in California. Product

categories include masonry, flooring, walls, insulation, fixtures, paint, roofing, and wood substitutes such as fiberboard.

www.calrecycle.ca.gov/RCP/Product.asp?VW=CAT&CATID=257.

California Materials Exchange (CalMAX). This is a free service designed to help find markets for non-hazardous materials that have been traditionally discarded. Businesses, schools, nonprofit organizations, and individuals benefit by finding free or low-cost materials. To view listings of materials wanted and available, visit www.calrecycle.ca.gov/CalMAX/.

C&D Resources on the Web

For information and online Waste Management Plan forms, visit the **City of Irvine's** Environmental Programs website at cityofirvine.us/developers/construction_demolition.php. For Green Building information, visit www.cityofirvine.us/green_build.html.

For more information, including fact sheets and case studies, visit **CalRecycle's** C&D Debris Recycling website at www.calrecycle.ca.gov/ConDemo/.

The **National Association of Home Builders (NAHB)** has several publications on construction waste management, including fact sheets, available online at www.nahbrc.com, or call NAHB at (301) 249-4000.

The **Building Materials Reuse Association** provides information to facilitate building deconstruction and the reuse/recycling of recovered building materials. Visit www.bmra.org/ for more information.

San Mateo County's RecycleWorks website has information on C&D recycling, including a construction site guide for building contractors at http://www.recycleworks.org/pdf/CD_office_guide.pdf.

Alameda County provides information on C&D recycling, including a builder's guide to reuse and recycling. Visit <http://stopwaste.org/home/index.asp?page=292>.

King County, Washington, has helpful tools to obtain high recycling rates on C&D projects, including job site waste guidelines. Visit your.kingcounty.gov/solidwaste/greenbuilding/construction-demolition.asp.



Zero Waste... You Make It Happen!



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