

County of San Diego C&D Update



WINTER 2011 — 2012

**SPECIAL
POINTS OF
INTEREST:**

- **Rigid Plastics #1-7** now accepted curbside
- **Call 1-877-R-I-Earth** to learn where to recycle anything!
- **New County C&D Guide** coming soon!

**INSIDE
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Dollars and Sense:

How much can be saved by reusing and recycling at a construction site?

There is money lying virtually ignored on the ground at construction and demolition sites. Second-hand wood flooring, odd cut lumber, siding scraps, used asphalt shingles, surplus dry-wall, spent corrugated cardboard and other materials typically labeled waste have value and a growing number of companies are finding lower cost options for management through reuse and recycling.

So how much can be saved by recycling at a construction site?

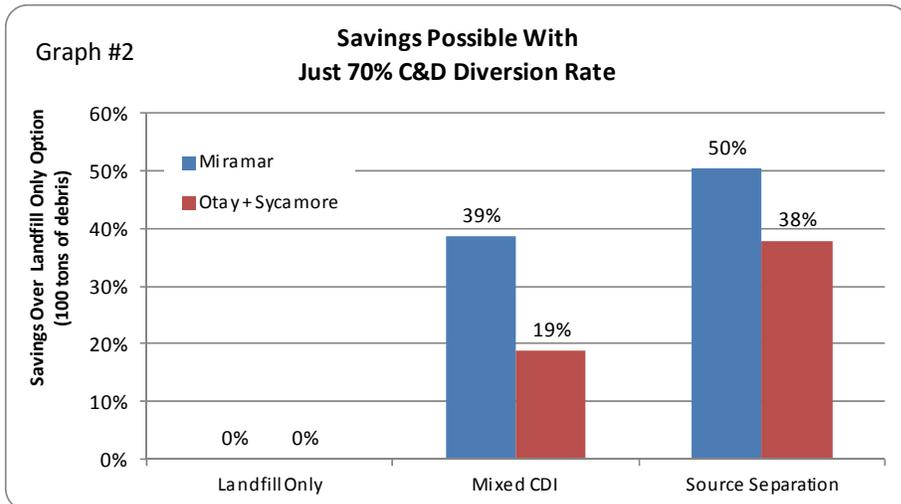
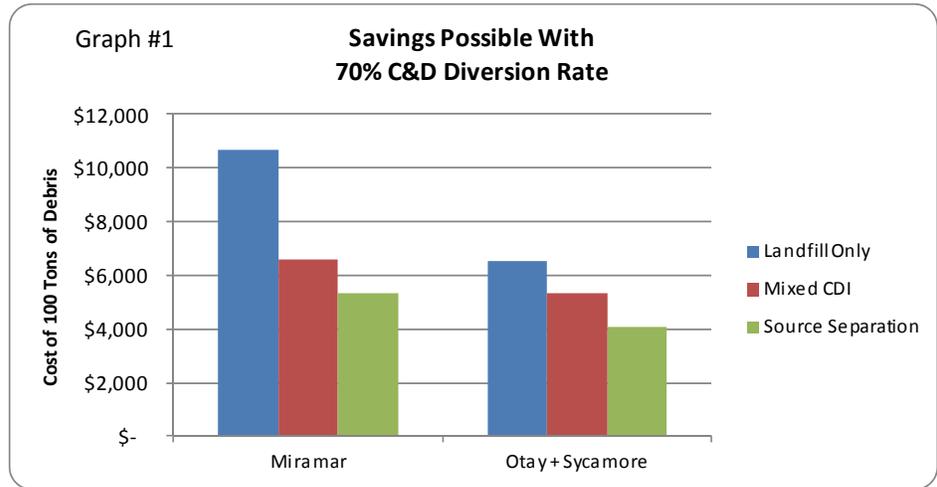
County staff analyzed the potential savings by using current tip fees at landfills, mixed construction and demolition recycling facilities, and source separated facilities. Costs do not include transportation of materials, rather just tip fees and assumes 100 tons of debris. Graph #1 shows the potential savings if 70% of con-

struction and/or demolition (C&D) material is recycled. If 70% of materials are source separated and recycled rather than landfilled, savings can be as high as 50%, and as high as 39% if a mixed C&D facility is used.

Graph #2 shows the potential percentage savings if 70% of overall construction debris is recycled.

Furthermore, it demonstrates the percentage savings if all materials are landfilled (0%), if a mixed C&D facility is used, or if materials are source separated. Source separating materials offers the greatest savings.

But waste management is not just a



Demolition of County Building Makes Way for New Water Front Park



Photo obtained from County of San Diego website.

On October 26th, 2011, demolition of the County's downtown health building, The Askew building, began. The Chair of the Board of Supervisors Bill Horn pulled down the Health and Human Services Agency sign above the door signaling the start of demolition.

The demolition of the 1958 J.B. Askew Building at the County Administration Center (CAC) will

make way for an expansive waterfront park. Construction is scheduled to begin in the spring and the park should be open by late 2013.

County demolition contractors aimed to recycle 90% of inert material and 70% of all other materials as required by the County's Construction and Demolition Recycling Ordinance. Approximately 6,000 tons of concrete was crushed and stockpiled on County property in Santee for future use by the County. All other materials were sorted and taken to recycling facilities.

The County's subcontractor plans to achieve a 90% diversion rate for inerts and 70% diversion for all other material when demolishing and building the County Operations Center (COC) on Overland Ave.

Below is a link to a fascinating time-lapse video of the demolition of the Askew Building:

<http://www.countynewscenter.com/video?v=35342>

CWC has recycled nearly 2,000 tons of construction debris.

Builder Highlight: California West Communities

California West Communities (CWC) has been building new tract homes in the unincorporated area of San Diego for the last couple of years. CWC has done a great job with both recycling and reporting to the County.

With a total of 14 finished tract projects in the unincorporated county, CWC has recycled nearly 2,000 tons of construction debris from new residential tract homes. They have recycled 100% of all

inert materials such as concrete and asphalt. Much of the wood is source separated and other materials such as drywall and scraps and are sent to a mixed C&D sorting line where on average the recycling rate is 70%.

CWC has reported on 100% of all of their finished projects.

CWC is a fine example of a builder that has successfully

incorporated C&D recycling into their business practices.

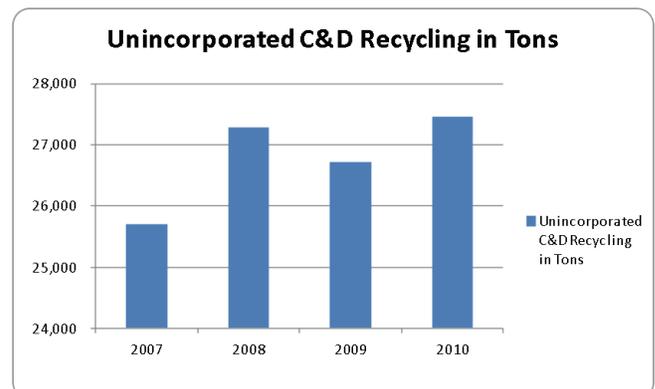


Photo obtained from California West Communities website.

County's Construction & Demolition Recycling Program

County staff tracks C&D recycling in the unincorporated county. The data from 2010 shows that the County's program continues to be successful.

In 2010, the County reached its highest levels of C&D recycling. With continued outreach and builder assistance, we hope to continue to improve programs and increase recycling!



Dollars and Sense:

Continued...

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financial issue. Waste prevention, reuse, and recycling saves money and generates broad environmental benefits, including the conservation of natural resources. Reuse and waste prevention decrease air and water pollution associated with materials manufacturing and transportation, saving energy and reducing greenhouse gas production. The recycling of many materials requires less energy than production from virgin stock, and can also reduce transportation requirements and associated impacts.

Although the environmental benefits are important, reusing and recycling is a bottom line issue for builders. Dollars spent handling and disposing of waste are not adding value to homes. Like any issue facing a builder in the construction process there are many options and other builders that have been there before. Good planning and research are essential to achieving reuse and diversion on the jobsite.

Below are some reuse and recycling tips on how to reduce the amount of waste produced at jobsites, to reduce the cost associated with waste, and to effectively extend the life of the landfills in the area.

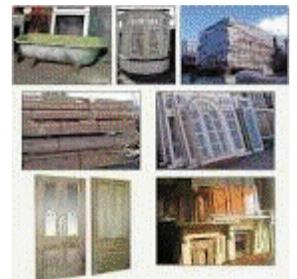
Contact salvage centers and used building supply outlets to sell or donate materials rather than disposing of them in the landfills.

Design for waste reduction, reuse and recycling. Reuse and recycling begins with the design and preliminary phases of building. For example, ensure that correct quantities of materials are ordered. Store materials correctly before use so they do not become damaged. Use onsite materials where possible. Complete a detailed waste management plan outlining material destination. Buy recycled building materials where possible.



Reuse materials on-site. Grind materials such as wood, shingles, brick, and gypsum board that can be reused onsite. For example, ground wood waste provides a free source of mulch for landscaping, erosion and sediment control, delivery pads, and temporary paths or roads. Ground wood waste can also be used on landscape

beds around individual homes or at development entrances. Ground wood waste can also be used for a variety of erosion control measures including mulch blankets, berms, and in filter socks. Wood scraps that have not been ground can be used for bracing. Another example of reuse onsite is soil and rubble. Soil and rubble can be used as a subsoil for landscaping. Rubble can be processed and used for a number of purposes including aggregate for roads. A third example is to crush leftover masonry material on site and reuse it in driveways.



Contact salvage centers and used building supply outlets to sell or donate larger pieces of usable material, overruns or jobsite change order materials rather than disposing of them in the landfills. Common items for salvage include lumber, plumbing fixtures, doors, cabinets, windows, lighting fixtures, decorative items (including fireplaces and stonework), ceiling and floor tiles.



Use small, easy to move bins for recyclable material to make sorting and separating easier.

Work with local small scale recyclers to build social capital and trust.

Buy recycled products for construction projects to support the markets you are creating.

Remember, you can combine methods of reuse and traditional recycling to fit your individual project. On the back page, you will find information on reuse organizations where you can learn more and become more involved!

Buy and apply recycled products in your homes to support the markets you are creating.

Reuse Organizations

Deconstruction & ReUse Network is an environmental and humanitarian nonprofit that supports California's green building movement by advancing the general environmental principal of "reduce, reuse and recycle" within the construction and demolition (C&D) industries. Their goal is to educate and empower property owners, building industry professionals and civic leaders to adopt the practice of deconstruction as a rational alternative to traditional demolition, thereby keeping C&D materials out of landfills, while simultaneously growing a robust network of individuals and organizations committed to the reclamation and distribution of reusable building materials and surplus salvage. Visit them at <http://reusenetwork.org/>



Reuse Alliance (RA) is a national [501(c)3] nonprofit that is working to increase awareness of reuse by educating the public about its social, environmental and economic benefits. Reuse Alliance:

- Envisions a world where people are actively engaged in the reuse movement and as a result have created a cleaner environment and a greener economy for their communities.
- Acts as a conduit that builds relationships between individuals and organizations interested in reuse.
- Develops informational resources that increase public awareness and access to the reuse sector's innovative waste prevention services
- Provides training that strengthens the capacity for individuals and organizations to reuse our materials resources
- Communicates the triple bottom line benefits of reuse
- Advocates for regional and national pro-reuse policies and regulations



The Reuse Alliance California Chapter has developed and implemented two, successful "Reuse Summits" for Northern and Southern California. Visit Reuse Alliance at <http://www.reusealliance.org/reuse-in-action/chapters/ca>

Where to Recycle? Use our Database!



Easily recycle and properly dispose of construction, hazardous and other materials by using our convenient database. Almost anything can be recycled. Our extensive database includes items ranging from cans and bottles to appliances and construction materials.

Just visit the website anytime:



Fill in the information including what material you wish to recycle and we'll tell you where to find a recycling center near you!

No computer? Contact our hotline at

1-(877)-R-1-Earth.

Hotline is open

Monday—Friday 8 a.m.—5 p.m.

County of San Diego

The County of San Diego Recycling Section aims to preserve precious landfill space, conserve natural resources, save water and energy, decrease pollution, increase jobs, and strengthen the economy.

The County of San Diego Recycles! It's in Our Nature!

Please contact Stephanie Ewalt for further information or if you would like to be removed from the distribution list.

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