



The Future of Construction & Demolition Recycling

Devens Recycling Center (DRC) is a full service, 90,000 sq. ft. Construction and Demolition Recycling facility located on 11 acres in Devens, MA. With a recycling capacity of 1500 tons per day, 6 bays, and a railroad spur track for both inbound and outbound materials, DRC currently recovers over 80% of the raw material from C&D materials. This recycled material is used as feedstock for such end markets as biofuel, wood pellets, landscaping mulch, hot-mix asphalt, cold patch, new concrete, and recycled cardboard products. We are very proud of our state-of-the art recycling equipment and our new facility, but we are most proud of our ability to cultivate reliable end markets for all of your recycled materials. We will work hard to bring you into full compliance with any Federal and/or State Regulations, work with you on your LEEDS or non-LEEDS Projects, and always strive to provide you with an environmentally safe, efficient, low cost solution for all of your C&D Recycling needs.

Please call us today at 978-772-6500, ext#302 for a FREE Consultation!

Step 1 – Incoming Loads



Scale House



6 Bay, 90,000 sq. ft. Recycling Facility located on 11 acres in Devens, MA

All incoming trucks are quickly weighed at our adjacent Scale House by one of our trained employees and then directed to one of our 6 bays. There is never any waiting! Our Facility is open for your convenience Monday through Friday from 7-5PM. You do not need to call for an appointment, but if you are a new customer, please call 978-772-6500 in advance of your arrival so we can have all of your driver's paperwork ready and get them back on the road as quickly as possible.

Once your load has been emptied on our concrete tipping floor, it is inspected by a certified asbestos inspector. This trained inspector will visually categorize each load by material weight and input the load information into a handheld device linked to our C&D Material Software System. The material breakout is then printed on the outgoing weigh ticket (see page 2) and given to your driver. If a load contains any Massachusetts Waste Ban items (tires, white goods, batteries, cathode ray tubes, cylinders etc.), those materials will be pulled from the load and put into a specified temporary holding area.

Our C&D Software System also allows for customized Material Reporting on LEEDS and non-LEEDS Projects and can be accessed by you at any time using your Customer Portal found on our Web page. We also issue Certificates of Recycling upon Request.

DEVENS RECYCLING CENTER LLC 45 INDEPENDENCE DR DEVENS, MA 01434 THANK YOU FOR YOUR BUSINESS		Ticket: 105777 Date: 1/9/2008 Time: 08:34:05 - 08:43:56	
Truck: AW3443 Customer: 27/Allied Waste Services		Scale Gross: 42700 lb In Scale 1 Tare: 37080 lb Out Scale 2 Net: 5620 lb Ton: 2.81	
Comment: LEADS PROJECT-EARLAND CONSTRUCTION SUNSET ROCK ANDOVER, MA			
Origin	Materials & Services	Quantity	Unit
MA/Massachusetts	5.% of MSW/Municipal Solid Wa	0.14	ton
MA/Massachusetts	50% of METAL/Ferrous Metals	1.41	ton
MA/Massachusetts	40% of WOOD/Wood	1.12	ton
MA/Massachusetts	5.% of PAPER/Paper Products	0.14	ton

Staging Ticket

Step 2 – Processing Your C&D Materials

After your load has been completely inspected and cleared of any Waste Ban items, any oversized materials are pre-sorted while on the tipping floor and separated before your load is combined with the other pre-inspected materials we call “feeder stock”. This feeder stock is loaded onto a vibrating finger screen by a grapple excavator. The finger screen separates the material measuring 6 inches or less from the larger debris. The smaller debris is dropped onto a separate conveyor belt, which passes by a magnet to pull out any ferrous metals. The debris continues up the belt onto a star screener that separates any C&D fines which can potentially be used as alternative daily cover for landfills or filler substitutes. Wood and other products then pass through another processing machine that separates the material by weight.

After the larger debris has run through the screeners, it continues up a conveyor belt to be manually picked by team of 15 trained laborers or “pickers”. The pickers pick the wood, cardboard, metal, concrete, gypsum, asphalt or plastic from the debris line and drop them into their respective sorting bins.



Step 3 – Recycling Your Processed C&D Materials

Following is information about what happens to our recycling byproducts, their current use, and existing market demand for the recycled material. As end markets are constantly changing for recycled materials, please visit our Web site for updated information www.devensrecycling.com.

Wood



Aluminum (Non Ferrous Metals)



Chipped in-house to meet end market specifications	Melted down to use as raw material for aluminum products
Used to make Wood Pellets, Wallboard, and Landscaping Materials.	Used to make Aluminum Cans, Ducts, and Framework.
Highest Demand as Home Heating Oil rises and cost of harvesting and transporting virgin wood increases.	High Demand due to the cost of manufacturing and transporting virgin aluminum and other non-ferrous metals.

Light Iron (Ferrous Metals)



Cardboard



Concrete



Melted down and used as raw material	Used by paper mills as raw material	Crushed and used for road base, soil stabilization, pipe bedding, and landscape materials.
To make steel, for example.	To make new cardboard products.	Recycled aggregates are lighter by 10%-15% than virgin concrete, resulting in reduced material, hauling, and project costs.
Highest Demand in other countries, such as China where Ferrous Metals are not a Natural Resource.	High Demand in the US due to the cost of harvesting and transporting virgin wood and the manufacturing virgin cardboard.	High Demand as new applications develop and as cost of manufacturing and transporting virgin concrete increases.

Additional Recycled C&D Materials

Asphalt Shingles



Fines



Gypsum



<p>Ground and combined with hot-mix to make road base, cold patch, new shingle additive, and fuel as asphalt shingles are made through the partial refinement of petroleum.</p>	<p>Filler material in landscaping and excavation projects.</p>	<p>Crushed and used in making new wallboard and cement products.</p>
<p>Using hot-mix asphalt with only 5% recycled shingle material can save \$1-\$2.80 per ton of hot-mix asphalt, as well as improve the quality of the end product.</p>	<p>Alternative daily cover for landfills or for animal bedding.</p>	<p>The reprocessed gypsum powder, which makes up app. 94% of the recycled material, is sent back to the plasterboard manufacturer. The paper with its related contaminants, makes up 6% of the recycled material and can be reused in various ways, such as composting, heat generation, building materials, etc., making the gypsum a 100% recycled material!</p>
<p>Growing demand as State DOT field studies are completed. Nails, wood and other non-shingle waste must first be removed prior to reuse. Potential fuel source.</p>	<p>New technology currently being introduced to recover Ferrous and Non-Ferrous from Fines will increase profits and reduce the need for land filling.</p>	<p>Growing Demand as the two largest wallboard manufacturers in the US have contracted with Gypsum Recycling Intl, a successful Scandinavian Recycler to open the country's 1st Recycling Facility in the US.</p>