

# Resource Recovery

## Waste Recycling System

On a per capita basis, Western Australia produces the most waste in the nation and recycles the least\*. That's why, at Instant Waste, we are contributing to the State's waste reduction targets by providing the best practice in waste management and material recovery processes. Our Material Recovery Facility (MRF) plays an increasingly important role in the diversion of Construction and Demolition (C&D) waste from landfill and helps to maximise the value of recyclable material recovered.

- The MRF is capable of treating over 200,000 tonnes of mixed C&D waste per year, extracting recyclable material such as sand, wood, metals, brick, light materials and concrete.
- It uses best practice technology and processes to separate material from mixed C&D waste streams and stop it from going to landfill.
- All the separated materials, including metal, sand, clay, wood, brick and concrete are sorted for recycling opportunities.
- To help you with your regulatory waste management targeting and compliance requirements, we can provide comprehensive waste planning and audit reports.
- The MRF features a visitor's walkway with a viewing platform, where you can safely view the day-to-day operations of the facility. There are also interactive videos and detailed signage describing the staged processes involved in the resource recovery process.

\*Based on data sourced in 2012 Waste Authority: Western Australian Waste Strategy, pg 6-7.



*Waste sustainability in action.*



Mixed C&D waste is loaded into the apron feeder for mechanical processing and separation.



Over half a kilometre of linked conveyors and screens mechanically process mixed waste streams.



Quality control through multiple hand picking stations ensures material is separated into various storage areas.

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# MAXIMISING THE RECOVERY AND RECYCLING OF RESOURCES FROM C&D WASTE

With Western Australia's rapidly growing population and increased pressure on resources, it's more important than ever to employ best practice waste management techniques in order to move towards a low-waste society. The redevelopments and new developments in the Perth Metro area will produce significant quantities of C&D waste, which must be managed more efficiently and not just put in landfill. Our MRF is part of a sustainable strategy to increase the diversion of C&D waste from landfill and recover it as a resource. This diversion process is key in improving the State's waste recovery performance and will contribute towards its waste reduction targets over the next decade.\*\*



## WASTE

**4.4 Million tonnes**

C&D waste generation for 2009/10 (whole state) total: 4,431,104\*\*

C&D waste is estimated to rise substantially over the next decade in Western Australia. Therefore, a more sustainable approach in waste management is necessary to reduce the amount of C&D waste going to landfill. With continual improvements in recycling and resource recovery generation methods, we can collectively minimise the future impact on our state's environment and reduce our dependency on fossil fuels.



## LANDFILL

Landfill capacity in Western Australia is quickly diminishing, while levies are continuing to rise. More than 50% of waste that goes to landfill is from the C&D sector – and most of it is recoverable. Directing C&D waste to landfill is no longer ethically, environmentally or financially sustainable.

**3.1 Million tonnes**

C&D waste to landfill for 2009/10 (whole state) total: 3,135,028\*\*

The Government is introducing incentives to reduce waste to landfill. We are enhancing performance on C&D waste recovery methods to drive waste minimisation.



## RECOVERY

It's clear that Western Australia must increase resource recovery processing to reduce unnecessary waste going to landfill. Through close collaboration between local and State governments, public and private organisations, community groups and the waste industry, we can improve awareness, change behaviours, foster waste minimisation and waste avoidance, promote efficient use of resources (including resource recovery), and prioritise sustainable waste management initiatives using the waste hierarchy.

**1.2 Million tonnes**

Recovery of C&D waste for 2009/10 (whole state) total: 1,295,327\*\*

## OUR DIFFERENCE.

With our extensive fleet of vehicles, comprehensive range of bins and our state-of-the-art MRF, we're able to deliver a total waste management solution to the Perth area and the surrounding North-west and South-west regions of Western Australia. Our tailored approach ensures that mixed C&D waste can be collected, managed and disposed of safely, responsibly and efficiently.

## WASTE REDUCTION.

Through the competitive and progressive recycling techniques and resource recovery operations at our MRF, we're achieving higher waste diversion rates and reducing the amount of waste going to landfill. By working together with our public, private and community partners, we can deliver sustainable resource management objectives and ultimately improve the State's resource recovery rates.

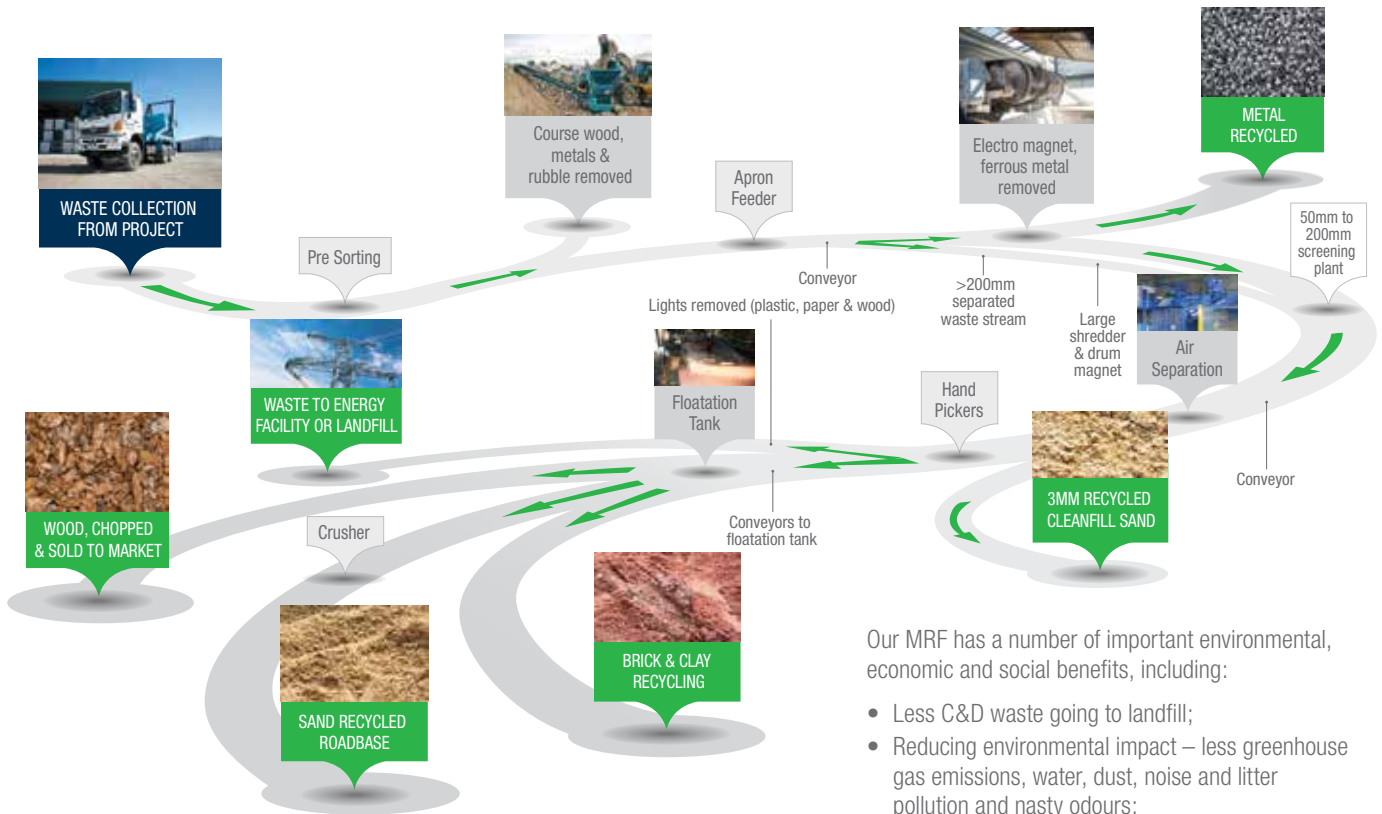
## OUR COMMITMENT.

We're committed to providing a cleaner and more sustainable environment for Western Australia, now and in the future. As such, we are continually improving our operations and processes to increase resource recovery efforts and promote waste reduction. Our MRF is a valuable asset in minimising waste and extending the lifecycle of recyclable materials. We are also dedicated to raising waste awareness in the community and the importance of the waste hierarchy to refocus efforts in reducing the waste going to landfill.

\*\*Data sourced from 2012 Waste Authority: Western Australian Waste Strategy, pg 12 and 25. Based on extrapolation of figures provided in Recycling Activity in Western Australia 2009-10, Hyder Consulting Pty Ltd.



*"Waste matters to us. With our help, you'll meet all your sustainable commitments through the safe and effective management of waste."*



Our MRF has a number of important environmental, economic and social benefits, including:

- Less C&D waste going to landfill;
- Reducing environmental impact – less greenhouse gas emissions, water, dust, noise and litter pollution and nasty odours;
- Preservation of flora and fauna;
- Maximising resource recovery and recycling rates;
- Reducing exposure of landfill levy cost;
- A healthier community; and
- Better community awareness of sustainable waste management practices and processes.



# 80-90% IS OUR TARGET FOR WASTE DIVERSION FROM LANDFILL

**COME AND SEE HOW OUR MRF CAN SUCCESSFULLY INCREASE RESOURCE RECOVERY RATES FROM C&D WASTE AND HELP IMPROVE WESTERN AUSTRALIA'S ENVIRONMENTAL CREDENTIALS. WORK WITH INSTANT WASTE MANAGEMENT TO MAKE WASTE SUSTAINABILITY A REALITY.**



Recovered materials from our MRF:



**RUBBLE**

### BUILDERS RUBBLE

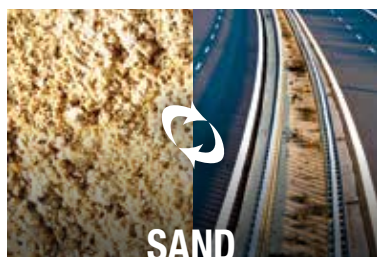
Mixed concrete and bricks make up a significant amount of the C&D waste stream. Viable material is mechanically extracted and crushed. The collected material is then reprocessed as recycled road base, internal bricks and drainage rock.



**LIGHT MATERIAL**

### PAPER & CARDBOARD

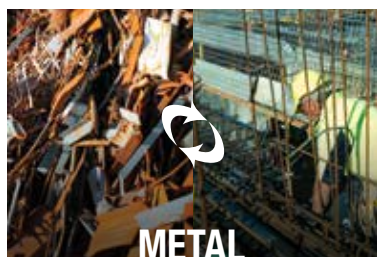
Paper and card is one of the easiest materials to recycle and can be separated from mixed C&D waste streams. The recovered material can then be used as a fuel source for the Waste to Energy sector.



**SAND**

### RECYCLED CLEAN FILL

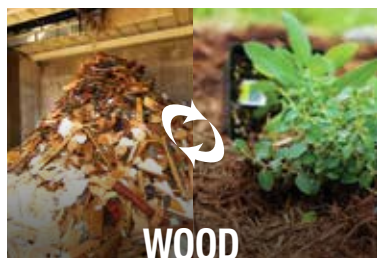
Sand is sieved and separated by fine screens through the MRF process. Collected material is recycled to produce quality-assured clean-fill that meets the relevant Australian Standards.



**METAL**

### METAL

Recycling metal such as copper and steel reduces greenhouse gas emissions from landfill sites. Collected scrap metals are sorted for reprocessing. By reusing metal components less energy is required for manufacture compared to virgin production.



**WOOD**

### WOOD

Wood sent to landfill emits methane and, if not captured, contributes to global warming. The wood that comes through our MRF is extracted using a specially designed flotation tank. Collected material is then used in secondary recycling markets such as mulch, and compost, or as a fuel source for Waste to Energy.



### WHY CHOOSE US?

Instant Waste Management is a reliable and trustworthy waste partner with the experience and capability to be able to cater to all waste projects quickly and efficiently. We provide an extensive fleet of vehicles and a wide range of bins, and we use the latest collection and waste management processes. Our state-of-the-art Material Recovery Facility (MRF) helps our customers reduce, reuse and recycle materials for a total integrated waste solution.

### OUR COMMITMENT

We can customise packages to meet all waste stream requirements. In all of our solutions, we target cost efficiency, environmental optimisation and resource recovery to provide the best available service in waste management and build long-term, mutually beneficial relationships with our partners.

### SUSTAINABLE WASTE MANAGEMENT

Our approach is aimed at delivering key benefits to you – starting with our account management interface, through to monthly reporting, waste audits and planning. We employ our technology, experience and operational techniques to create a cost-effective, environmentally beneficial waste management solution by diverting waste from landfill and extracting recyclable materials.

Join us in the success of 'Waste Sustainability in Action' and make Instant Waste Management your waste partner of choice.

[www.instantwaste.com.au](http://www.instantwaste.com.au)

