



# environmental fact sheet

## unlined boxboard

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### Amcor Petrie Mill - Australia

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Unlined Boxboard is manufactured at Amcor's Petrie Mill in Queensland, the only coated cartonboard manufacturing plant in Australia. Petrie Mill provides direct employment for over 300 people, and produces over 120,000 tonnes of the highest quality recycled cartonboard for Amcor Cartonboard, a division of Amcor Packaging (Australia) Pty Ltd.

Amcor is committed to managing all aspects of their operations in an environmentally responsible manner. All operations are conducted in compliance with relevant local environmental regulations, licences and legislation. Petrie uses ISO14001, a widely recognised international standard, as a guide for providing the Mill with a systematic and documented methodology to address environmental issues.

### Fibre Source

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When Petrie Mill was built in the early fifties, it was specifically designed to process waste paper. The waste paper used at Petrie consists of 10% pre-consumer off-cuts from printers and converters, 25% office waste and 65% old corrugated cardboard containers.

### Waste Reduction

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At Petrie over 120,000 tonnes of waste paper and cardboard is recycled and converted into new cartonboard products annually. This reduces the amount of waste entering landfill and reduces the demand on forest harvesting for fibre production. As well as general waste reduction, Petrie Mill is committed to reducing its own impact of production on the receiving environment.

The Mill continually investigates source reduction of waste, internal recycling and product modifications.

### Water Use & Treatment

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The water within the Mill is reused, regenerated and recycled throughout the Mill for optimum use. Each day up to four Mega Litres (ML) of fresh water enters the Mill and is combined with 17 ML that has already been recycled through the Mill's processes. Water remains on site for up to six weeks before finally passing through an extensive water treatment system prior to entering the North Pine River.

The treatment system consists of a series of aeration and settling ponds and a constructed wetland where final polishing of the water occurs. The calm and shallow artificial wetlands trap any remaining sediment and help purify polluted water through sunlight and absorption of nutrients and other pollutants by aquatic plants.

### Air Emissions

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Coal burnt at the power house produces emissions to the atmosphere such as nitrogen oxides, sulphur oxides and particulates. The Mill is committed to process changes that minimise the level of these emissions.

### Energy Consumption

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At Petrie, coal and gas fired boilers heat demineralised water from the on-site water treatment plant to produce up to 80 tonnes of steam per hour. Steam is primarily needed to dry the cartonboard in the production process. Before the steam is piped to the Mill, it passes through a turbine generator which produces 50% of the electricity requirements of the Mill.

This method of electrical production is energy efficient as well as environmentally sound. A condensing section on the turbines allows the boilers to be functioning at full capacity regardless of the steam demand on the paper machine.