



## Amcor Australasia – Paper

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Paper and Recycling

# Aspiring to new heights

## Key messages

- Commissioning of new mill on track
- Creates leadership position in recycled paper
- Significant cost saving benefits
- Exciting opportunity to leverage substantial improvement in recycled paper quality

Significant benefits to be realised from new recycled paper mill



## Botany Recycled Paper Mill

- 400,000 tonnes per annum capacity
  - Commissioning commenced in October 2012
    - Proceeding as scheduled
    - Planned learning curve takes 18 to 24 months to “ramp up” to full capacity
- Creates leadership position in recycled paper
  - Low cost manufacture
    - \$50m cost reduction over 24 months
  - Sustainability benefits
    - 26% reduction in water usage
    - 34% reduction in energy usage
    - 75% reduction in waste to landfill



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## Progress Update

- Significant progress made in ramp up to full production since October
- Have routinely run at over design output
- As with any operation of this complexity, there are ongoing opportunities for improvement
- Paper grades produced to date have been used successfully in the corrugated box operations

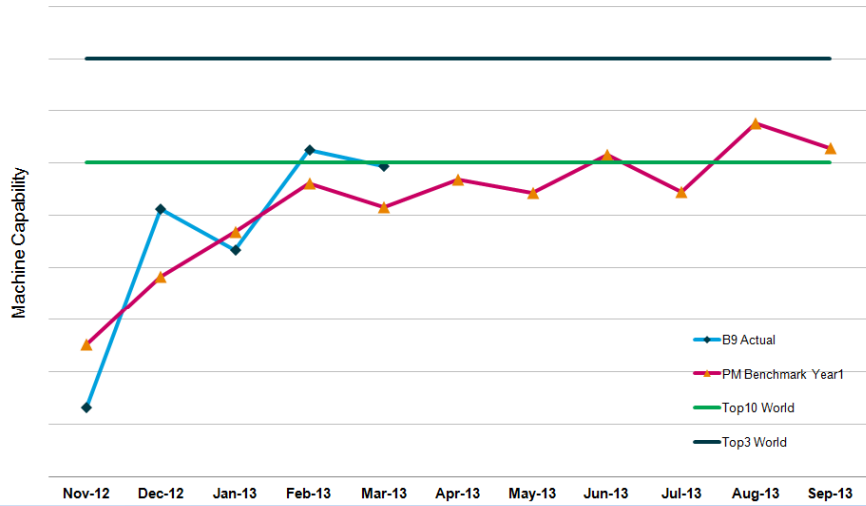
Machine progressing well towards full-scale production



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## Start up meeting world class benchmark

B9 Start-up Curve Benchmark



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## Botany recycled paper mill - video



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## B9 Quick Facts

### Civil Construction

- Piles = 1,350
- Concrete = 20,300m<sup>3</sup>
- Formwork above ground = 21,000m<sup>2</sup>
- Mesh = 101,000m<sup>2</sup>
- Structural steel = 3,650t
- Landfill = 12,000m<sup>3</sup>

### Process Capability

- 1.6km of paper per minute
- 400,000 tonnes of paper per annum
- 3km of paper per minute off winder
- Customer roll = 4 tonne & 1.59m diameter
- Parent reel = 47 tonne & 3.8m diameter
- 80 – 200gsm paper
- 100% Australian recovered waste paper





### Process & Equipment

- Piping, tanks & towers > 400 tonnes of steel
- Process piping length > 30km
- Electrical cable length > 475km
- B9 machine length = 330m long & 22m high
- Main equipment = 1,400 semi trailers
- 1,550 40ft containers
- 72 Ship loads
- Heaviest single lift = 57 tonnes



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## B9 – a step change in paper making capability

|                  | Start Up | Max Drive Speed (m/min) | Output (Tpa) | Product GSM                               | Paper Appearance  |
|------------------|----------|-------------------------|--------------|---|---|
| Botany 7 (B7)    | 1960     | 600                     | 120,000      | Fluting<br>104 – 125                      |  |
| Botany 8 (B8)    | 1969     | 600                     | 140,000      | Liner & Fluting<br>140 – 185              |  |
| Fairfield 6 (F6) | 1966     | 470                     | 140,000      | Liner, Fluting & White Liner<br>140 – 190 |  |
| Botany 9 (B9)    | 2012     | 1600                    | 400,000      | Liner & Fluting<br>80 – 200               |  |



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## Substantial benefits in the corrugated box operations

- New Botany mill creates differentiated position
  - Substantial product quality improvements
    - Surface finish and printability
    - Improved shelf presence
  - Lightweight papers
    - Environmental, innovation and cost benefits
  - Innovation
    - Shelf ready packaging
    - Substitution for some Kraft applications



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## Summary

### B9 Today

- Most innovative paper machine of its kind in Australasia
- Machine capability meeting projected performance
- Positive integration into Fibre packaging supply chain
- Excellent paper colour, printability, uniformity and consistency
- Improved cost position

### Growth Potential

- Kraft substitution
- Paper lightweighting
- Future innovations opportunities



Forming & Press section – Amcor Botany Mill (B9)

Machine progressing well toward full-scale production



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