Glass Recycling and Midland Magpies
The Background

• Clay brick is 100% recyclable
• The inclusion of pre-fired brick and ground glass reduce emissions and firing temperatures, with other benefits
• Currently operating 4 major streams of clay recycling from
  – commercial building sites
  – residential building sites
  – demolition sites
  – our own site – all imperfect and waste brick and Retail Yards, including encouraging the general public consumer to return their waste
• Waiting SWIS Grant information for ground glass trial at Middle Swan
The Glass Journey

• Investigated previous trials in UK and USA, promising results
  – Reduce firing temperature
  – Removal of vanadium staining issue
  – Reductions of emissions to air
  – Removal of significant waste stream

• Discussed glass supply providers, need relatively clean supply, ground to 100-200 microns

• Main cost imposition is the grinding, due to small size needed

• Laboratory tests undertaken, planning kiln trials once SWIS Grant result announced
The Clay Journey

- Started by researching, testing and ‘getting our own house in order’
- Learnt about the importance of no contamination of brick bats
- Collaborated with Zero Waste and DEC
- Partnered with Pindan – supplied bins to their site
- Partnered with Capital Demolition
- Partnered with Ross North, In-Vogue, Highbury Homes, APG Homes
Commercial Builders

Demolition Companies

Midland Magpies
Midland Magpies


Midland Brick
Consumers and Retail Yards

The results

July 2006-end Oct 2008 off-site recycling figures:

<table>
<thead>
<tr>
<th>Source</th>
<th>2006-07</th>
<th>2007-08</th>
<th>2008-09</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midland Magpies (residential sites)</td>
<td>326</td>
<td>1,581</td>
<td>741</td>
<td>2,648</td>
</tr>
<tr>
<td>External commercial collections</td>
<td>5,860</td>
<td>10,541</td>
<td>3,372</td>
<td>19,773</td>
</tr>
<tr>
<td>Internal (retail yards and general public, excluding manufacturing site)</td>
<td>2,004</td>
<td>1,078</td>
<td>252</td>
<td>3,334</td>
</tr>
<tr>
<td>Total:</td>
<td>8,190</td>
<td>13,200</td>
<td>4,365</td>
<td>25,755</td>
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</tbody>
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This is equivalent to 9.2 million bricks = 430 houses