Show Me the Money

The buried cost of construction and demolition waste

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Cost Benefit Analysis – diverting Construction and Demolition Waste from Landfill

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Three key actions for construction and demolition waste:

69. Promote industry best practice

71. Construction and demolition waste - behaviour change research.

75. Recovered materials markets – work with the construction and demolition sector to identify issues and opportunities around developing markets for key materials.
Construction waste – the breakdown

*excluding HLC/KiwiBuild – estimated to be an additional 2.2% in 2019
What waste disposal is costing the industry

Cost to Auckland Construction and Demolition Sector for year ending December 2018

- **$34 million** for rubble and concrete
- **$38 million** for special / hazardous waste
- **$20 million** for timber

**$100,207,000*** based on average of Auckland transfer station pricing ($180 per tonne)

* excludes estimated 2.2% of waste from HLC. Large suppliers like demolition companies can get rates much lower – as low as $95.00 per tonne.
Auckland’s Construction ‘Wasteberg’

What’s hiding below the waterline?

Visible costs
- Collection costs

Invisible costs
- Offcuts
- Damaged goods
- Poor on-site storage
- Site waste management
- Shrinkage
- Transport costs
- Administration
- Compliance

On average, the true cost of construction waste is about ten times the cost of disposal (WRAP)
Cost-Benefit Analysis

0.97 and 2.6
CBR* on waste minimisation

70%-90%
Waste reduction is achievable

$4k-$20k
Return on salvage materials

Need for new ways of dealing with waste
Industry and community working together to find new ways to use materials and keep waste out of landfill

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How the CBA is creating change

3 council staff
Working on C&D waste

Procurement
Changes to contracts

Builders
Projects to minimise waste

Salvage contracts implemented on large scale projects.
Soft strip and deconstruction being undertaken on City Rail Link and HLC projects
Actions for minimising waste costs

1. Set high procurement standards
   Buy only what is needed and use a Licenced Waste Collector

2. Site Waste Plans
   Promote good waste management on site

3. Design out waste
   Get designers to design waste out of building plans

4. Develop people
   Train them on how to minimise waste

Maintain value of material
Look after it - don’t pay for it twice

Auckland Council
Visit www.knowledgeauckland.org.nz for a download
Building Out Waste

A guide for developers and building contractors

Visit www.makethemostofwaste.co.nz to download a copy