

## What is 'Waste'?

In the context of construction it means 'Soft-strip', 'Deconstruction and Demolition Arisings', 'Reclaim, Reuse, Recycle or Recover', 'Landscape Green Waste', 'Excavation Arisings', 'Over ordered, never needed', '5% Safety Margin', 'Unused Resources', 'Surplus to requirements of this contract', 'Spares for ongoing maintenance', 'Damaged or discarded goods'

## Factors affecting the accuracy of **WasteCost® lite**

It relies on BRE SMARTWaste data from a limited number of projects

The types of construction are generalised

It relies on an accurate input of local disposal costs

## Disclaimer

No accuracy should be assumed by the user for budgeting and tendering.

## Keep up-to-date and informed

Join the **WasteCost® full** user group and newsletter list. By registering, you will receive updated version of the **WasteCost® lite** and of **WasteCost® full** if you become a subscriber.

## Would you like to contribute to the development of **WasteCost®**

If you have any comments, can contribute knowledge or data or if you would like a bespoke version for a particular end-user group or would simply like to be part of a user group, please contact Brian Murphy at: [WasteCost@greenspec.co.uk](mailto:WasteCost@greenspec.co.uk)



## Other sources of information

For waste specifications, visit the GreenSpec website at: <http://www.greenspec.co.uk/html/specifications/specificationscontent.html>

If your organization would like to organize its own in-house CPD seminar or workshop on waste, contact Brian Murphy at: [BrianSpecMan@aol.com](mailto:BrianSpecMan@aol.com)

The DTI publication 'Site Waste Management Plans' Guidance for Contractors and Clients is downloadable from:

<http://www.greenspec.co.uk/html/specifications/specificationscontent.html>

BRE SMARTWaste: BRE are looking for data from 1000 projects to make the BRE SMARTWaste database more comprehensive and accurate.

[www.smartwaste.co.uk](http://www.smartwaste.co.uk)

Contact [hunterm@bre.co.uk](mailto:hunterm@bre.co.uk)

**WasteCost®** introduces the Waste Aware Scotland and ICE waste stream colour codes. More information at: [www.wascot.org.uk/construction/colourcoding.htm](http://www.wascot.org.uk/construction/colourcoding.htm)

UKCEED have recently run a number of seminars entitled 'Construction Resources; Using less, Recycling More' which launched the findings of a landmark study commissioned by the DTI. Papers from the seminars are downloadable from:

[www.encluster.org/ecluster/DisplayArticle.asp?ID=3686](http://www.encluster.org/ecluster/DisplayArticle.asp?ID=3686)

To learn more of the Environment Agency's work on waste, visit:

[www.environment-agency.gov.uk/subjects/waste/?lang=\\_e](http://www.environment-agency.gov.uk/subjects/waste/?lang=_e)

The Envirowise programme, a government initiative that aims to promote better environmental performance while increasing the competitiveness of UK industry and commerce — now offers UK construction companies free, independent, confidential advice and support on practical ways to increase profits by minimising waste: [www.envirowise.gov.uk](http://www.envirowise.gov.uk)

Constructing Excellence:

[www.constructingexcellence.org.uk](http://www.constructingexcellence.org.uk)

WasteCycle have developed their own version of a waste calculator at:

[www.wastecycle.co.uk/?c=1047&ch=1](http://www.wastecycle.co.uk/?c=1047&ch=1)

# **WasteCost® lite**

## waste disposal needn't cost the earth!

<http://www.greenspec.co.uk/html/waste/wastecontent.html>

[www.greenspec.co.uk/images/features/wastecost/WasteCostLite\(WasteCostLite\(R\)W104.xls\)](http://www.greenspec.co.uk/images/features/wastecost/WasteCostLite/WasteCostLite(R)W104.xls)

The **WasteCost®** software has been designed by the **National Green Specification (NGS)**

**GreenSpec™** to show that for a modest outlay, significant reductions can be made in the cost of disposing waste from construction sites.

**WasteCost® lite** is a simplified version of **WasteCost® full** which is available on subscription

What does **WasteCost® lite** do?

Calculates how much waste will be generated

Calculates how much waste can be reclaimed for reuse or recycling by segregation

Calculates how much waste can be diverted from landfill

Calculates the number of skips required for each waste stream

Calculates the cost of disposing of skips

Calculates the savings possible through waste segregation

## Waste disposal has become a costly business

Recent legislation now means:

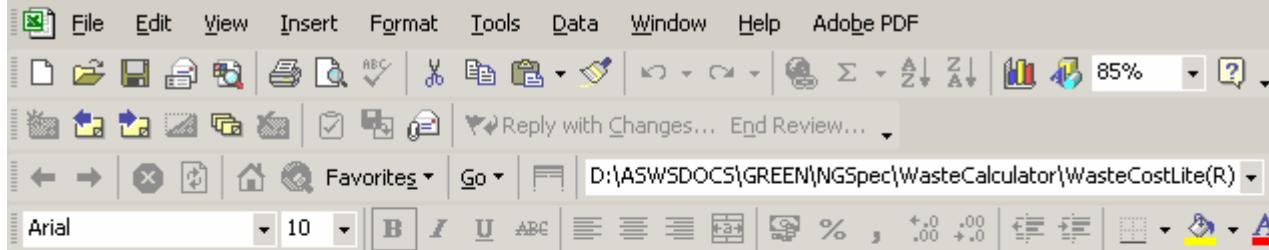
An increase in the number of materials classified as 'Hazardous'

Co-disposal of hazardous waste with non-hazardous waste is no longer permitted

Waste Acceptance Criteria (WAC) at Hazardous waste sites means the level of hazard must be reduced before disposal

A massive reduction of landfill sites licensed to receive hazardous waste means an increase in transport charges

The cost of disposal of hazardous waste has dramatically increased.



INPUTS			OUTPUTS		
<b>1</b> Number of buildings Building Footprint Number of floors			2 No. 1300 m <sup>2</sup> 3 No.		
<b>2</b> Choose a construction type closest to your project Average (All building types) Average (Offices) Average (Residential) Innovative MMC Prefab Housing Steel and Glass Office			Type Yes in only one cell Make sure No appears in the remainder		
<b>3</b> Potential Waste Segregation/Reclaim & Reuse/Recycling Streams WAS+ICE Colour system No Segregation (Mixed incl. Hazardous)			<b>4</b> Add Yes or No in each cell to indicate which		
Inert Mixed metal Mixed (non Hazardous) Timber Packaging Compactable Plasterboard Hazardous			<b>5</b> Add or replace rates with local collection rates £/tonne		
4 Total number of waste streams proposed for contract			<b>6</b> Number of 8 CuYd skips for each waste stream Potentially Reusable or recyclable m <sup>3</sup>		
			<b>7</b> Cost of one skip system of mixed waste removal £1,049,521.59 "Waste segregation will cost more money" Revised cost of reduced one skip mixed waste system £5,404.26 But look how much it can save! £844,368.72 £199,748.61 Predictable Volume of waste generated on Project 757 m <sup>3</sup> Volume potentially diverted from landfill 530 m <sup>3</sup> Volume diverted with chosen waste streams 276 m <sup>3</sup> Predictable weight of waste generated on project 1311.90 tonnes Weight of waste potentially diverted from landfill 918.33 tonnes Weight diverted with chosen waste streams 160.73 tonnes Potential % diverted from landfill (by tonnage) 19.55%		
			Local waste collection rates £/tonne Total number of 8 Cu Yd skips Potentially Reusable or recyclable m <sup>3</sup>		
			Mouse over & Read		