

Rachel Hill - Senior Waste & Resources Consultant at RSK Geosciences

An Introduction to the Building Blocks

C | W M Cymru Wales Centre

Together, we stand for a world beyond waste.



## Todays Agenda

**WHAT IS WASTE** 

> TYPICAL CONSTRUCTION WASTES

> CLASSIFICATION AND SAMPLING

DUTY OF CARE PRACTICALITIES



#### When does a waste become a waste?

"Waste' means any substance or object which the holder **discards** or **intends** or **is required to discard**"

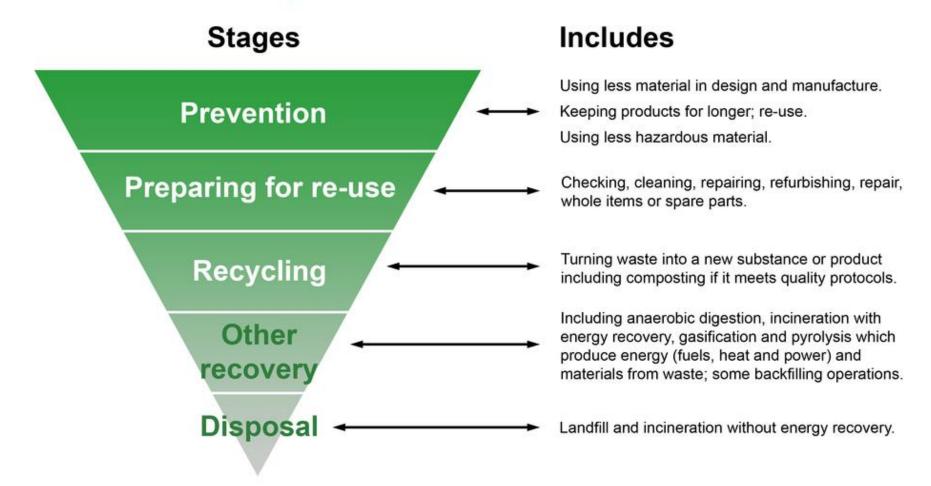
The meaning of 'discard' is interpreted using case law.

Waste 'holder' – producer of the waste or any other person who is in possession of the waste.



## The Waste Hierarchy

#### The Waste Hierarchy





## Typical Construction Wastes













## The exception to the rule...

"uncontaminated soil and other naturally occurring material excavated in the course of construction activities where it is certain that the material will be used for the purposes of construction in its natural state on the site from which it was excavated"

Waste Framework Directive (2008/98/EC) Chapter 1, Article 2

Need to demonstrate that the excavated material is uncontaminated via Site Investigation or Preliminary Risk Assessment (Phase I)



## What might not be a waste?

#### Clean and naturally occurring materials

 Excavated surplus material (clean and naturally occurring) may be suitable for reuse off-site at another site under the CL:AIRE DoWCoP



#### Not clean and natural materials

 Excavated and stockpiled material (not clean and natural) not suitable to stay in current location may be suitable for reuse on the same site under the CL:AIRE DoWCoP



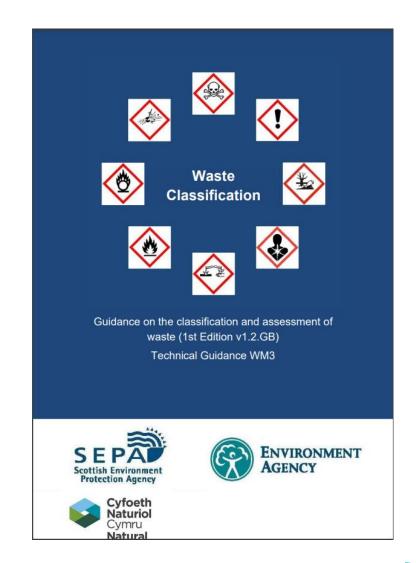


# Once decided it's a waste...

### Classification

## Every waste type produced needs to be classified! Technical Guidance WM3 can help with this.

- Depends on origin of waste
- Some wastes are simple to classify and only have one option – 'absolute codes'
- Other wastes need to be sampled and classified to find the right option – 'mirror entry'
- The List of Waste / EWC code determines reuse /disposal route
- Sampling and analysis will help classify, if required

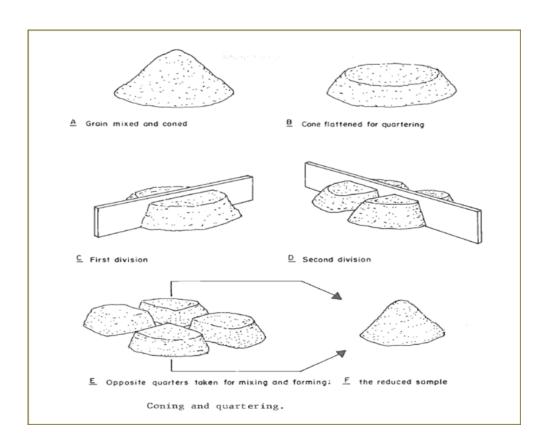




## Sampling

Needs to be **representative** – don't choose the clean looking pieces!

- Pre-development documentation Phase
  2 Site Investigation
- In-situ / post-excavation
- Consider how much waste is present
- Liaise with laboratory/consultant
- Utilise industry standard sampling methods





## WM3 and WAC testing

#### The tea bag analogy...

## WM3 testing is looking at what is inside the tea bag

- Standard suite of testing in WM3 guidance
- Might need some additional determinants if there is suspected contamination
- Results must be analysed using specialist software or manually (will need to demonstrate workings) to determine hazardous properties
- Helps to determine List of Waste / EWC code for classification
- Supports landfill disposal but additional WAC testing may be required



## WAC testing is looking at what leaches out of the tea bag

- Several different WAC testing suites 2 stage inert is the most commonly used
- Provides results which can be compared against the different landfill requirements which can be compared without software
- Informs whether the waste can be disposed of in certain landfill type
- Does not provide LoW/EWC Code for disposal
- Does confirm inert / haz landfill acceptability once EWC confirmed



#### End routes

You may need an idea of this prior to sampling and testing!

- Environmental Permit Allows medium or higher risk waste activities to be undertaken
- Waste Exemption Allows certain low risk waste activities to be carried out without the need for a Permit
- Regulatory Position Statements the EA will not require a permit to carry out certain activities
- Quality Protocol Sets out end of waste criteria for the production and use of a product from a specific waste type
- DoWCoP Aims to prove that the material is not a waste through the provision of a Materials Management Plan (MMP)



## Remember - Duty of Care

Waste Duty of Care: Code of Practice (Environment Agency, 2018)

Applies to anyone who produces, carried, keeps, disposes of, treats, imports of has control of waste in England and Wales.

#### **Obligations**:

- Preventing the unauthorised or harmful deposit, treatment or disposal of waste
  - Ensuring waste is only transferred to an authorized person



## Remember - Duty of Care

#### In practical terms:

- Check the disposal site permit does it accept the waste code? Check against EA Public Register?
- Check the waste carriers' licence is it upper tier? Is it in date?
- Receive a Waste Transfer Note / Hazardous Waste Consignment Note check compliance with EA requirements
- Undertake inspections and audits on disposal sites



## The potential consequences

#### Financial risks

- Illegal deposits of waste are subject landfill tax from 1 April 2023 at the standard rate (£102.10 per tonne)
- Environmental pollution penalties moving to be unlimited

#### **Operational risks**

 Loss of waste carrier licences, unable to hold an Environmental Permit, accreditations

#### **Reputational risks**

Impact on public and customer perception



#### Questions?

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