

Landfill Aftercare Regulatory perspective







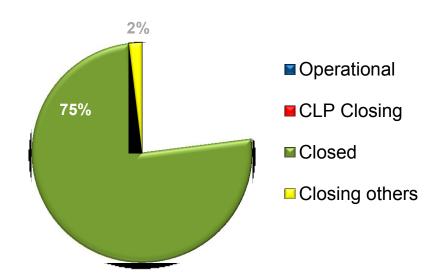




Landfill aftercare – regulatory issues

- Around1400 closed permitted landfills of which 1000 closed pre-LfD (2001)
 - Old style WML/CoPA licences
 - Limited compliance limits which may be inappropriate
 - Aftercare should be covered in Working Plans but documents often outdated
 - Inappropriate monitoring requirements
 - Irrelevant operational conditions
 - Many sites not compliant with permit conditions
- And 400 closed post-LfD
 - Aftercare measures covered in Closure Reports
 - Now have groundwater compliance (levels)
 - Agree appropriate monitoring schedules
 - ⇒ Fit for purpose infrastructure
 - Revised compliance limits
 - Compliant with permit conditions

Number of permitted landfills in England (April 2016)





Landfill aftercare – regulatory issues

Compliance issues

- Elevated leachate levels
- Landfill gas migration
- GHG emissions
- Surface and groundwater impacts
- Failing management and monitoring infrastructure

Longer term issues

- ★ Limited financial provision (if any)
- Signposting towards surrender
- Completion criteria
- Length of time to establish waste stabilisation
- Climate Change
- Apply the legislation and any changes to it...



Landfill aftercare – technical issues

- We have many deep landfills
- Complex geology and hydrogeology
- Subwater table site relying on hydraulic containment (sites with lots of leachate!)
- Approx 84% landfills overlying either Principle or Secondary A aquifers
- Lots of dilute & disperse co-disposal sites
- Strong reliance on groundwater for drinking water supplies in the South and East of England
- Many sites with varying engineering designs



Landfill aftercare – a positive note

- Our guidance and approach to managing landfills has and remains risk-based (DoE Brown Book)
- We will continue to apply this approach.
- We need to increase our understanding about long-term waste stabilisation and the declining source-term
- We are currently undertaking an internal review of our closed landfill policy/approach









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