Treated Timber
Product Knowledge

Wrslfv#iru#Discussion

- Why we treat
- Timber applications and the Hazard Class system
- Treatment results
- Preservatives
- The vacuum/pressure process)

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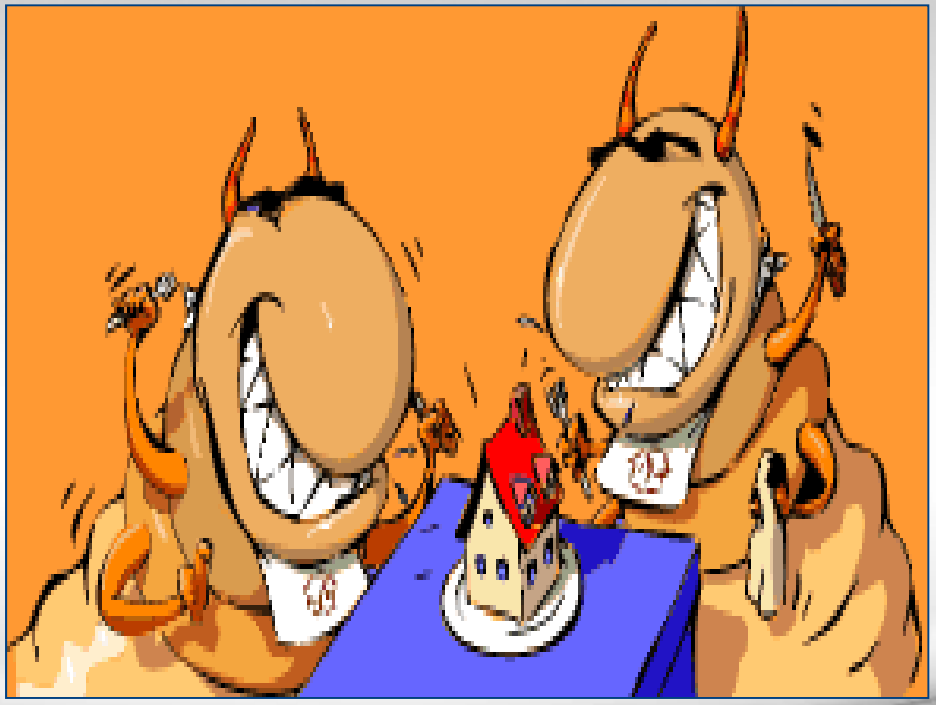
- To increase the service life of non durable timber species and make them more resistant to attack by it's natural enemies ie. protection from decay fungi and wood boring insects
- And increase the applications for which timber can be used



Hazard Class System

- Cornerstone of preservation industry
- All timber going through a treatment plant is aimed at meeting a particular Hazard Class

Hazard Class 1

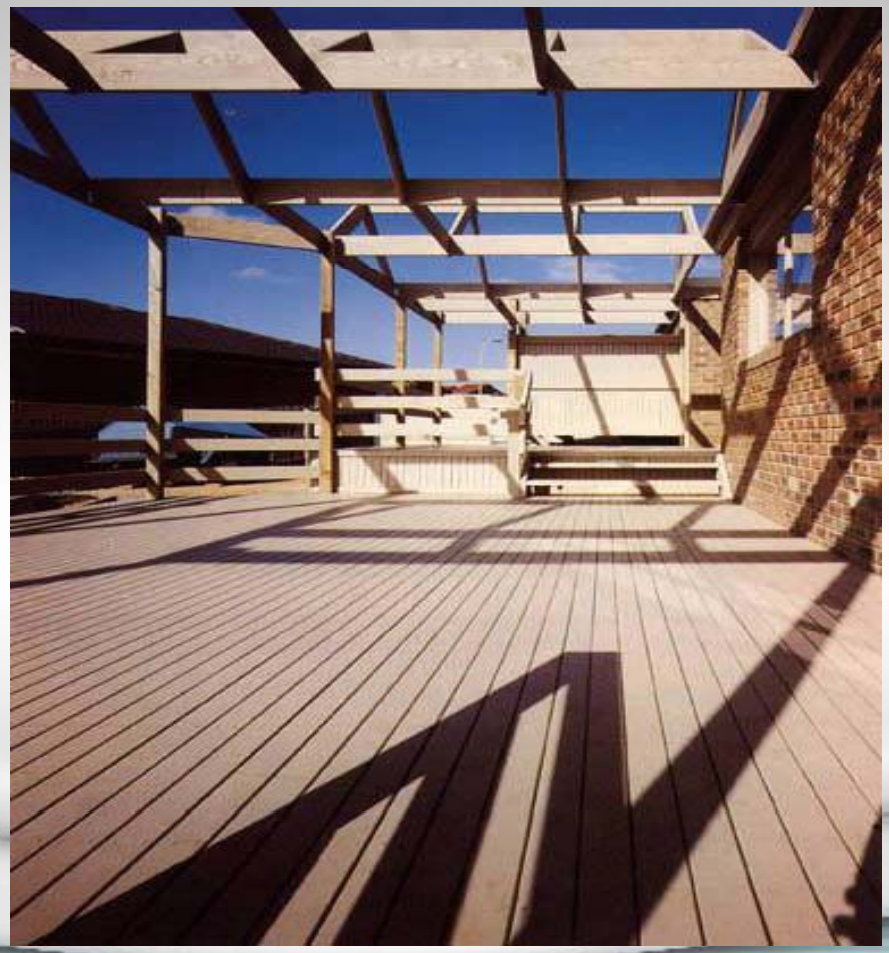
- Above ground
- Protected from moisture
- Borer
- Not termites
- House framing
- Flooring
- Furniture
- Joinery

Hazard Class 2

- Above ground
- Protected from moisture
- Borer
- **Termites**
- House framing
- Flooring
- Furniture
- Joinery

Hazard Class 3

- Above ground
- Exposed to weather
- Weatherboards
- Pergolas
- Decking

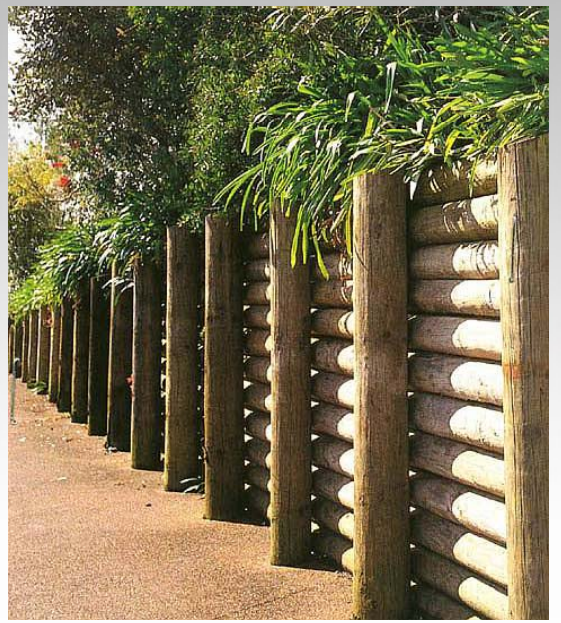


Hazard Class 4

- In ground
- Fence posts
- Pergolas (in ground)
- Landscaping
- Vineyard posts

Hazard Class 5

- In ground
- Critical use
- Retaining walls
- Piling
- Poles



Hazard Class 6

- Seawater Immersion
- Marine piles
- Jetty cross-bracing
- Landing steps

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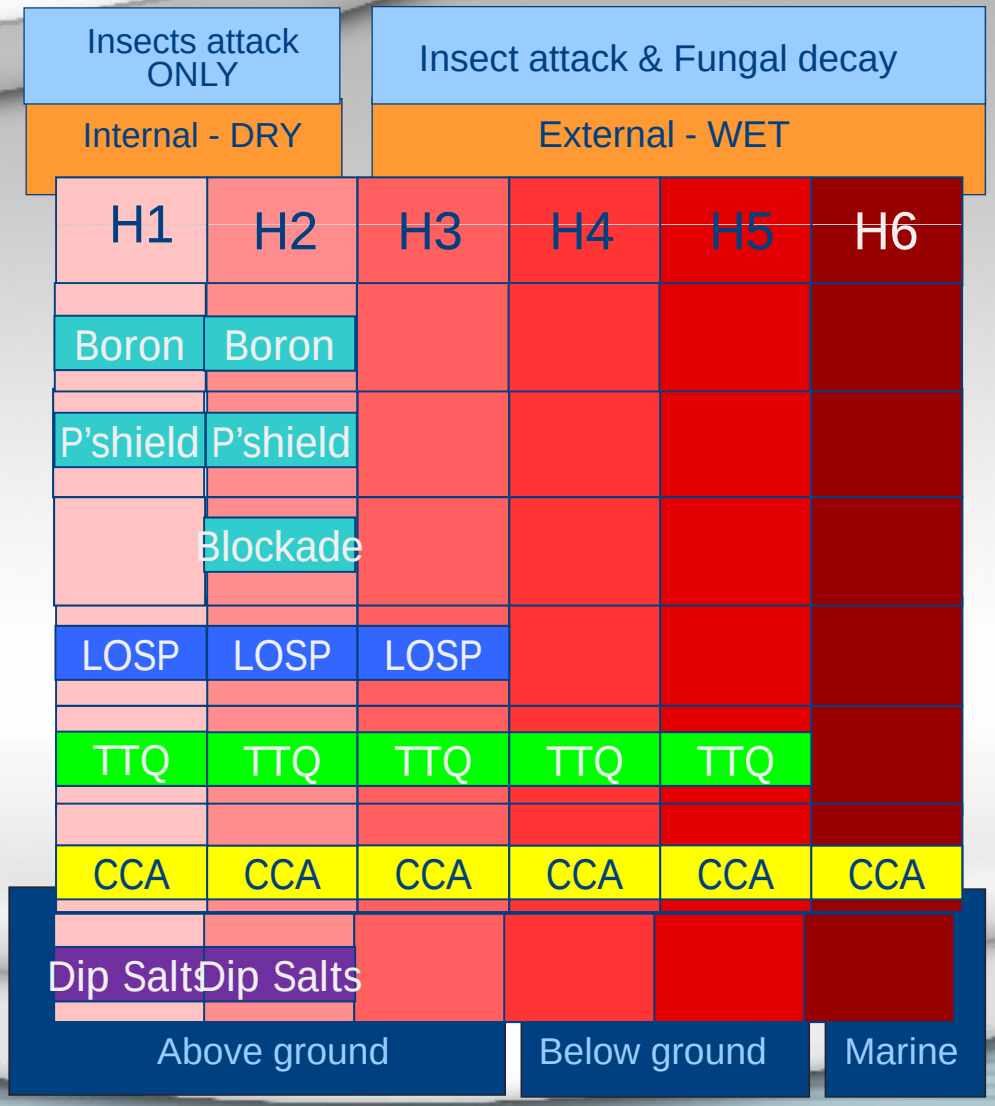
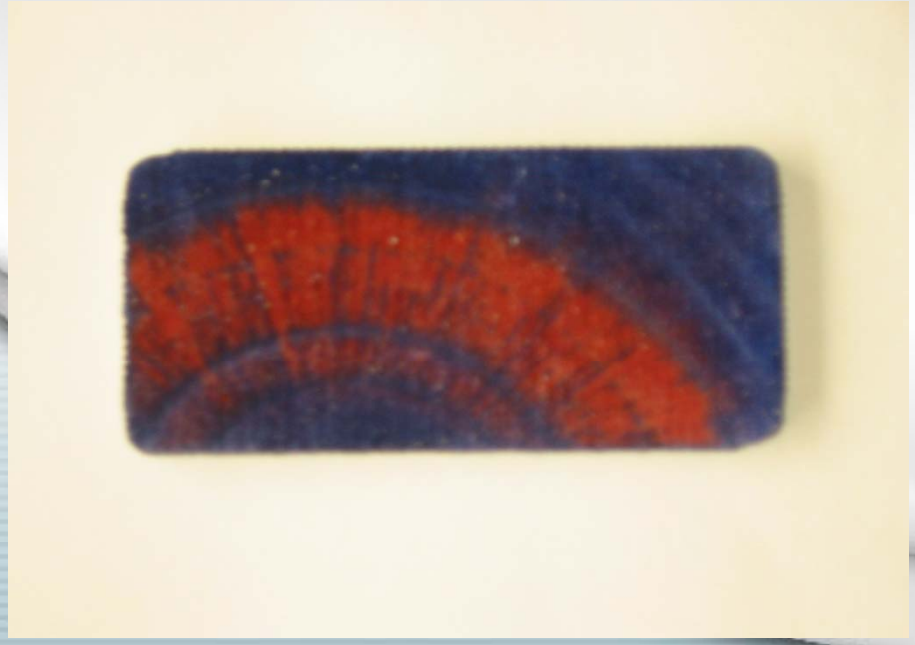
Hazard classes relate directly to end-use application

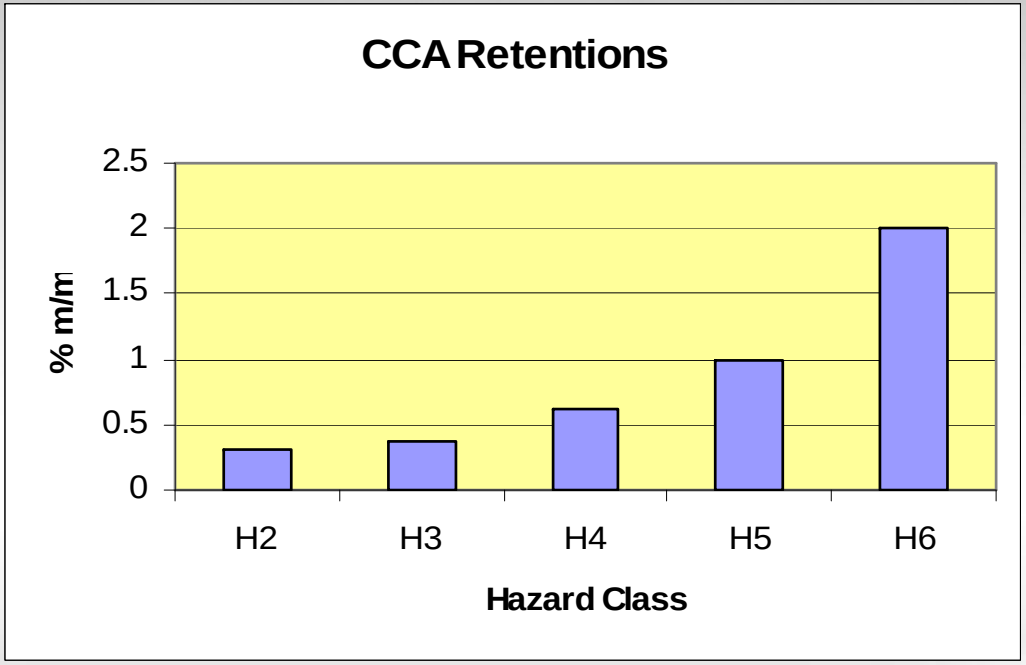
- Chosen to suit biological hazard
  - ie Protection from borers only or borers and fungi
- Chosen to suit exposure conditions
  - ie Internal, external, above ground, in-ground, marine



Treatment Results

- Penetration
- Retention





Preservatives

Three main types:

- **Waterborne** – Chemicals that mix with water.
  - CCA, TTQ, Boron, Permashield & Blockade
- **Light Organic Solvent Preservatives (LOSP)** – Chemicals that are mixed with a solvent such as white spirits
  - H2 (Permethrin), H3 (Permethrin and TBTN or Azoles)
- **Oilborne**
  - Creosote, PEC.

FFD

- Long documented history
- In a changing environment, it is rare to find a product or technology that has remained more or less unchanged for more than 70 years
- Recent History
  - US - Industry decision to move to alternatives Jan 2004
  - Canada - followed US lead
  - Europe - EU “Mktg & Use Directive” banned CCA commencing July 2004

FFD

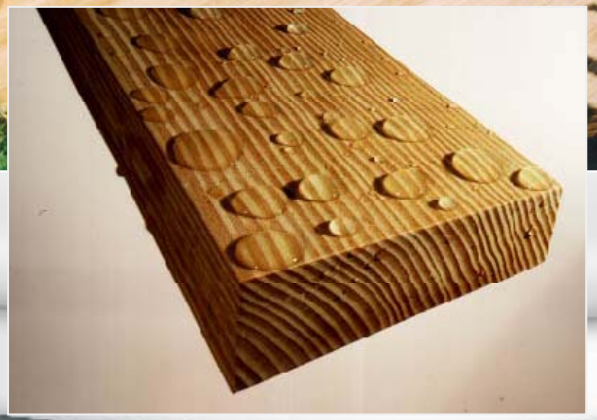
- Recent History
  - Japan - Phase out of CCA commenced early to mid 1990's
  - NZ – No restrictions
  - Aust - March 06, APVMA review restricted applications in 4 areas
    - Playground equipment
    - BBQ Tables
    - Hand Rails
    - Domestic decking

Changing!

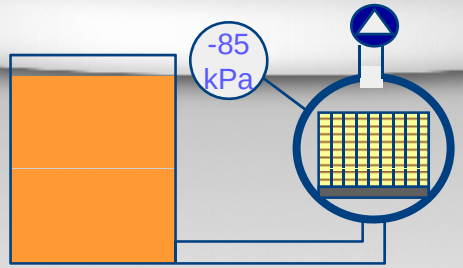
Wp whfk#T

- CCA-alternative offering similar level of protection
- Water-based
- Combination of Copper + DDAC
- H1 - H5
- 50 year limited guarantee
- Used in Australia for 12 year
- Specified by National Parks & Local Councils etc

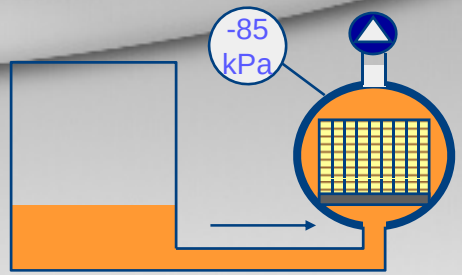
CCA alternative



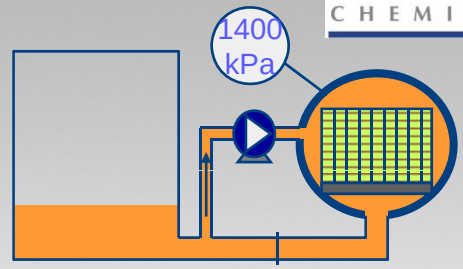
Vacuum Pressure Impregnation



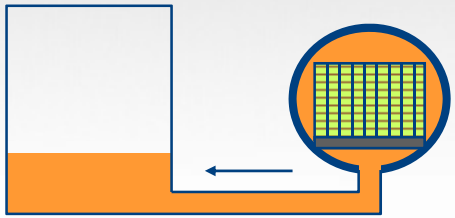
Initial Vacuum



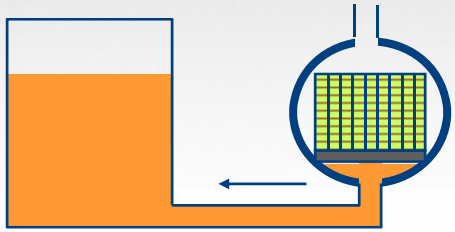
Flood



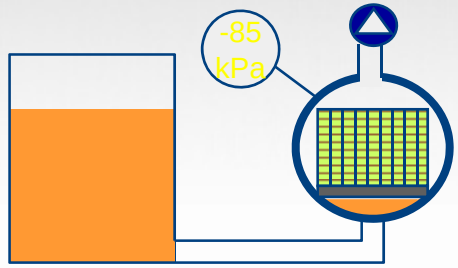
Pressure Rise



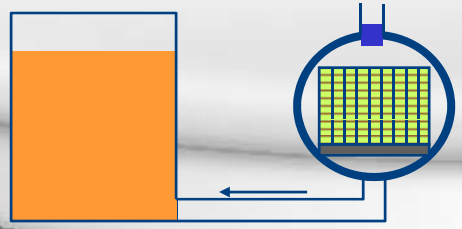
Pressure Release



Blow/Pump Back



Final Vacuum



Final Blow/Pump Back

THE GUIDE TO WORKING SAFELY WITH TREATED TIMBER

WEAR

- *Gloves*
- *Goggles*
- *Mask*

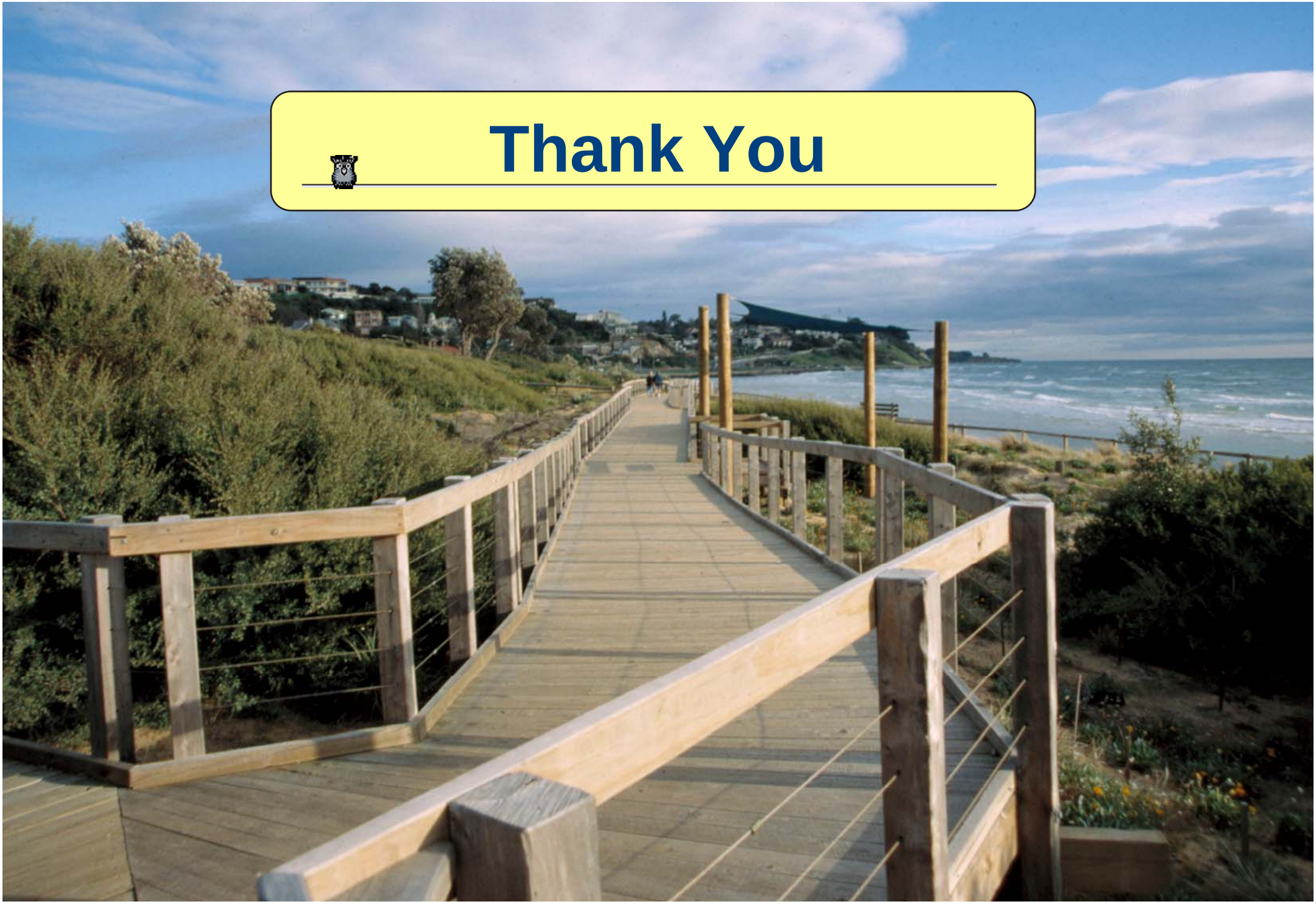
DON'T

- *Burn it*
- *Cook with it*
- *Use it for animal litter*

DO

- *Wash work clothes separately*
- *Dispose of waste in an approved landfill*

TimTech® CHEMICALS


Thank You