



# Orica Botany Groundwater Cleanup Project

Progress Update Presentation for Community Liaison Committee

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  - Water Recycling Update
  - Groundwater Remediation Strategy Review

# GTP Performance

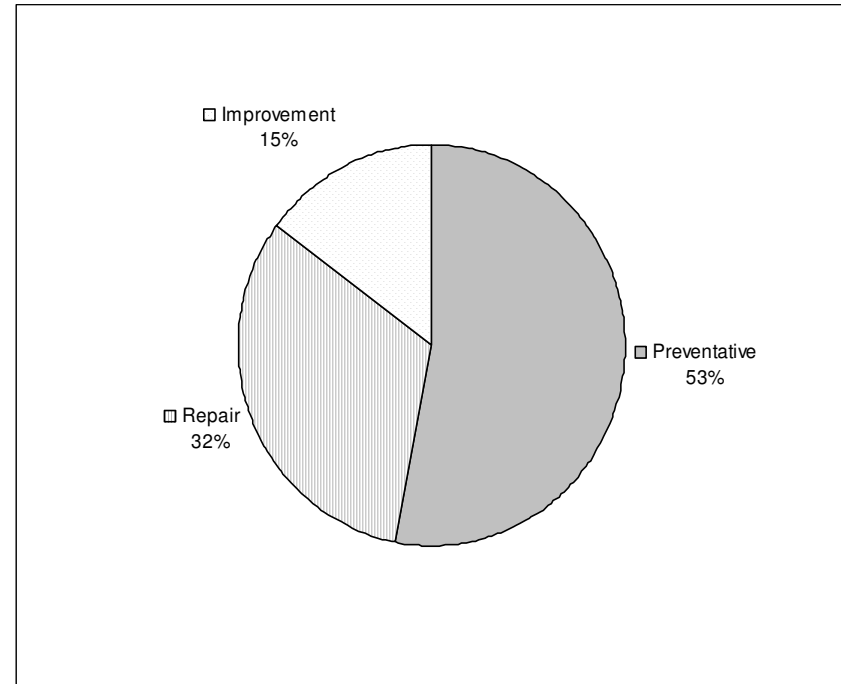
- Containment
  - achieved at primary and secondary containment areas
  - mostly achieved at the BIP containment line
- Best containment results to date
- GTP Environmental Compliance Audit conducted in August/September 2008
- GTP Hazard Audit conducted in November 2008



# GTP Performance cont'd

## Annual GTP Maintenance Shutdown

- 14 November to first weekend in December 2008
- Over 450 jobs completed
  - Main focus was on thermal oxidiser and quench tower
  - Repair tasks 32% - where equipment shows signs of poor performance and needs maintenance
  - Preventative tasks 53% - done to ensure that equipment does not stop working due to normal wear and tear
  - Improvement tasks 15% - equipment changed to take advantage of new knowledge



# Groundwater & Surface Water Monitoring Results

- Groundwater chemical monitoring results
  - No significant changes in groundwater concentrations
- Surface water monitoring results
  - September results reflect consistent improvements in surface water quality in the Drains and Penrhyn Estuary
- Human Health Risk Assessment
  - Overall conclusions presented remain unchanged
- November residential bore monitoring results
  - Letters to be issued to residents before Christmas

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GTP Performance

 **Water Recycling Update**

Groundwater Remediation Strategy Review

# Water Recycling Update

- GTP designed to treat 15ML/day, currently treating up to 6 ML/day
- Industrial reuse (Orica, Qenos, Solvay) currently approx 2.5 ML/day
- Anticipated to increase to 4 ML/day by March 2009
- Orica required to maximise recycling opportunities for GTP treated water
  - Government Metropolitan Strategy
  - Environment Protection Licence
- Staged approach
  - First stage focussed on optimising containment lines
    - Maximising extraction with consideration of limitations (e.g. subsidence and boundary conditions)
    - More modelling required, Orica would like to involve Ian Acworth in review role
    - Detailed scoping of project in progress
    - Further discussion with DWE required
  - Second stage to look at other waste water sources

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GTP Performance (inc. Foreshore Road)

Water Recycling Update

 **Groundwater Remediation Strategy Review**

# Groundwater Remediation Strategy Review

- Advised at September CLC that Orica made presentation to DECC on 15 September 2008
- As previously presented to the CLC
  - No immediate focus on DNAPL source area depletion
  - Ongoing management of groundwater contamination to ensure human health and environmental receptor risk is acceptable
  - Ongoing review of remedial technology developments for DNAPL, sorbed mass and dissolved phase treatment
- Met with DECC for further discussions in November 2008
- Community Workshop Plans
  - Aiming for late February / early March
  - Checking availability of Al Laase and Bernie Kueper

