

# THE AUSTRALIAN BOOM & BAFFLE CO

MENTANZA PTY LTD ABN:59 071 127 798

## Contaminated Sediment Control Mortlake Gas Wharf Demolition, Sydney

### PRODUCT SUMMARY

- 614metres contoured to 3m supplied as:
- 269m primary inner boom
- 345m secondary outer boom



### CLIENTS

#### Prime Contractor:

Baulderstone Hornibrook Pty Ltd

#### Demolition Contractor:

Australian Wharf and Bridge

### THE AUSTRALIAN BOOM & BAFFLE CO

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Australian Wharf and Bridge were engaged by Baulderstone Hornibrook to demolish the derelict Mortlake Gas Wharf in February 2005. Due to a number of issues with contaminated sediments during the overall site remediation. The local environmental regulator imposed stringent requirements to be undertaken during the demolition and in particular in relation to the removal of wharf piles.

To ensure that positive containment was maintained during the entire operation two curtains were installed, both curtains were contoured to the bottom profile:

- The first curtain was installed against the wharf structure
- The second curtain was moored 20m off the wharf
- Floating plant engaged in the demolition worked in the area between the two curtains.

Whilst the deployment area was relatively calm it was often exposed to strong westerly winds, strong tidal flows and frequent passing by high speed ferries this required a robust construction.

In this application a 60kN woven fibrillated fibre polypropylene fabric was used for the skirt. In selecting the skirt fabric an important consideration was the prevention of sediment blinding during the deployment period. (Alternatively a non woven skirt whilst having an initial higher flow rate tends to blind with sediment and marine growth and reduce in effectiveness over the deployment duration). Additionally the woven skirt retains minimal sediment and facilitates low level contamination spread during removal on project completion.

This skirt was used with AB&BCo type II (enclosed water) float and ballast assemblies. The project duration was 6-9 months, product maintenance required during project nil.