

### FAIRFIELD CYCLEWAY RETAINING WALL HOMEBUSH BAY TO FAIRFIELD, NSW, AUSTRALIA

#### ENVIRONMENTAL/GEOTECHNICAL ENGINEERING/MASS GRAVITY WALL

**Product:** Maccaferri DT Mesh Gabion

#### Problem

The Roads & Traffic Authority (RTA) NSW approached Maccaferri Pty Ltd to provide a retaining wall solution for the exposed cut area for the Homebush Bay to Fairfield Cycleway.

#### Solution

Maccaferri's objective was to design a wall that was cost effective and aesthetic to the environment. The main constraint on the project was to minimise the cut into the existing embankment. The consequence of this on the Gabion wall design meant that the cross-section had to be minimised.

The geotechnical soil parameters were considered very good and therefore the earth pressures were not very high. However, the short-term stability of the excavation cut was paramount, and hence a speedy design and construction project was required.

#### Benefits

In summation, the Gabion mass gravity wall system proved to be an economical and an appropriate system for the application.

The RTA NSW were pleased with the finished product and have been able to provide the community with an aesthetic cycleway facility.

- Max Height - 4.0 m
- Face Area - 325 m<sup>2</sup>

Contractor name:

ROADS & TRAFFIC AUTHORITY NSW

Consultant name:

DOUGLAS PARTNERS PTY LTD

Product used:

DT MESH GABIONS - 500 M<sup>3</sup>

Construction date:

AUGUST 2002



Before construction

Date: Aug 2002



During construction

Date: Aug 2002



After construction

Date: Aug 2002

#### Maccaferri Pty Ltd

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