



BORAL RECYCLING PTY LIMITED

ABN 42 000 061 843

QUARRY END USE

Development Business Unit

Greystanes House

Clunies Ross Street, Prospect NSW 2148

PO Box 42, Wentworthville NSW 2145

Telephone (02) 9033 5000

Facsimile (02) 9033 5305

www.boral.com.au

Our ref: 139 9.80.11

31 May 2007

Mr Paul Burton
Managing Director
Burton Contractors Pty Ltd
Homebush Business Village
Unit 3 / 11-21 Underwood Road
HOMEBUSH NSW 2140

Dear Sir

RE: Southern Employment Lands – Aquifer Construction

Boral has developed the 330ha Greystanes Estate Development since 2001. The Northern Employment Lands (NEL), comprising 60ha of industrial land was completed and sold in 2002/03. The Residential lands, "Nelson's Ridge", is progressively being developed. The landform for the Southern Employment Lands (SEL), comprising 130ha of the Prospect quarry site is also being developed.

Burton Contracting Pty Ltd, (formerly John R Burton Contracting Pty Ltd), have been engaged as an Earthworks contractor placing and compacting close to 4 million m³ of fill within the Residential, NEL and SEL development to date.

During the SEL landform development, Boral and its design consultant identified the presence of groundwater in-flow at the base of the quarry. In order to deal with the groundwater long term, a permeable Aquifer was designed to allow long term access to groundwater during quarrying and construction and at the completion of the development to manage groundwater at the site.

Boral in conjunction with Burton Contracting Pty Ltd proactively worked with Boral's design consultant to reduce the aquifer construction time and reduce costs from \$2.5 million to \$1.8 million during a series of Value Management Workshops and on-site weekly meetings.

Cost savings were made by replacing formed concrete with 3m diameter and 1.8m diameter Rocla drainage pipes. These pipes were internally strengthened with steel and concrete. This alternative design, put forward by Burton Contractors, was assessed and deemed suitable by the design consultant and adopted for construction. The Aquifer column was constructed in 2.4m lifts is currently sitting 12m above the base and is surrounded by the in-filled compacted landform.

During construction of the Aquifer, Burton's monitored the permeable layer of crushed concrete and gabion rock and suggested changes be made to further improve the permeability of the layer. Trenches were excavated in the permeable layer between the Aquifer column and known groundwater sources to assist in efficiently transporting the groundwater to the Aquifer column.

Burton Contractors Pty Ltd proactively worked with Boral and its consultant prior to and during the construction phase to deliver a cost effective and efficient Aquifer Construction.

Yours faithfully



DARREN CANN
Project Manager
Development Business Unit