

South Peak Village Slope Protection

San Pedro, Laguna, Philippines

ENVIRONMENTAL / GEOTECHNICAL / MECHANICALLY-STABILIZED
EARTH WALL / SLOPE PROTECTION / SOIL REINFORCEMENT

Products: System Terramesh, MacGrid Geogrid, MacTex Geotextile

Problem

A six-meter high stone masonry wall along a creek collapsed and thus required urgent rehabilitation. The said wall was designed to support the saleable lot for a residential development. Build up of excess pore water pressure behind the wall was the main reason of wall failure as per the investigation.

Since the project site is located inside a residential subdivision, a durable yet aesthetically solution was required by the owner/developer.

Solution

Filinvest Land Inc., the owner and land developer, explored all options for possible alternatives to the stone masonry wall system. Maccaferri (Philippines), Inc. proposed System Terramesh as another option for rebuilding the wall. FLI has approved the proposal considering two main factors: 1) economy, and 2) ease of installation even on rainy season. Moreover, the advantages of the Maccaferri System Terramesh over rigid structures are:

- No hydraulic build-up behind the wall
- It is a flexible structure.
- Easily installed also by unskilled workforce
- Construction possible even during rainy season
- Environmentally-sound solution that encourages growth of vegetation and fauna
- Aesthetically-looking finish of wall surface

Project Owner

Filinvest Land Inc.

General Contractor

Infratex Philippines Inc.

Consultant

Maccaferri Products

System Terramesh
MacTex Nonwoven Geotextile

Construction Info

Start of Construction : September 2000

Completion Date : December 2000



Before Construction

September 2000



During Construction

November 2000



After Completion

September 2002



After Completion

September 2002

MACCAFERRI (PHILIPPINES), INC.

Unit 30-C, 30th Floor , Rufino Pacific Tower, 6784 Ayala Avenue, Makati City 1226, Philippines
Tel. (+63-2) 813-0211 Fax. (+63-2) 813-0211 loc 1
E-mail: sales@maccaferri.com.ph Web site: www.maccaferri.com.ph