

LAKE LINING AT TRUMP GOLF COURSE IN AKOYA OXYGEN PROJECT

AL YUFRAH DUBAI, MIDDLE EAST, U.A.E.

Slope Protection

Problem

DAMAC Properties is one of the most prominent developers in the Middle East delivering luxury residential, commercial and leisure properties to provide unique living concepts to customers across the region.

Making its mark at the leading end of stylish living, few years ago, DAMAC Properties revealed master development, the AKOYA Oxygen.

The new development, located in Dubai land, off the Umm Suqueim road extension spreads over 55 million sq. ft, which includes residential property surrounding a championship golf course.

The development highlight includes parklands, green open spaces, private gardens, mansions, villas, luxury residential properties with retail and hospitality products including a five-star hotel, a wellness center. The community also includes global retail brands, leisure & entertainment offerings and organic market places.

As the development features a golf club with attractive landscape and artificial lake, one of the challenges that encountered by the client and consultant is the slumping and erosion of the sand and gravel in the slope.

Solution

Upon review of the available topographical & geotechnical reports by our engineers, Maccaferri Middle East proposed and recommended a cost-effective and durable solution to solve the slumping and erosion problem; with MACWEB E 4410.3 Polyethylene Extruded Geocells. MACWEB E 4410.3 a lightweight expandable cellular confinement system, manufactured by full or perforated polyethylene webs that can control and confine the sand and gravel in the slope area of the artificial lake.

Client: DAMAC PROPERTIES

Designer / Consultant: KEO INTERNATIONAL CONSULTANT

Contractor: NAEL CONSTRUCTION & CONTRACTING

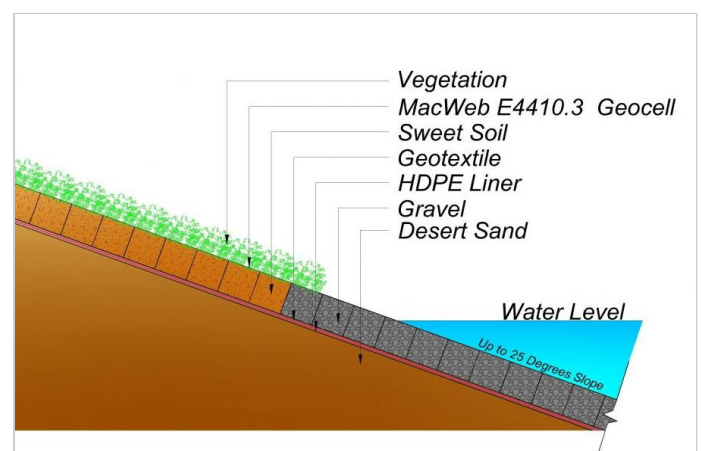
Products used (Qty.)

- MacWeb 2000 m2

Date of construction: 12/2016 - 03/2017



Project location



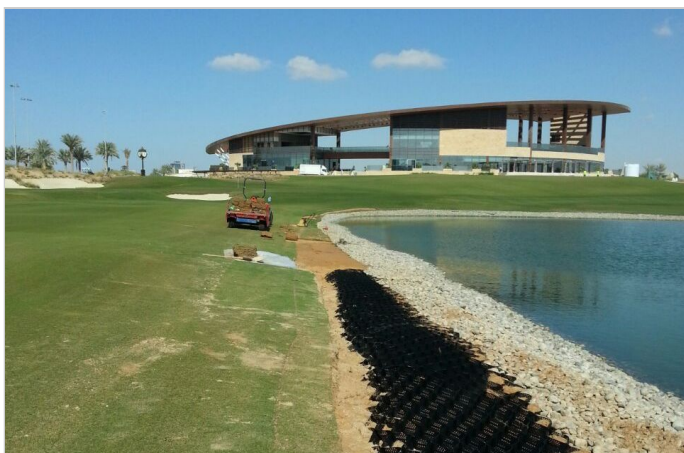
Sectional detail of pond lining with Macweb geocell & other products



During construction: HDPE geomembrane water proofing layer installation



During construction: Macweb geocell installation on side slopes



During construction: Filling geocell with gravel, sweet soil & grass mat



Completed project: filled lake close view



Completed project: distant view of lake

Maccaferri Middle East
Dubai PO box 502594
United Arab Emirates
Tel: +97143608958
E-mail: info.ae@maccaferri.com