

BRISTOL BUENAVENTURA GOLF & BEACH RESORT

Pacific Ocean Coastline; Panama

GEO PRODUCTS, LLC | PANAWEB

Background

The primary objective was to protect the banks of a canal within a luxury hotel located 85 miles west of Panama City on the Pacific Ocean coastline. Within the resort, walking paths and gazebos were strategically placed amid a winding man-made canal. The vegetated canal required wall slope angles of 1:1 to 3:1, potentially unstable. The resort was in need of a solution that would suit not only the needs of the fast-paced construction schedule, but the budget and aesthetic of the manicured grounds as well.



Before



After



Geo Products, LLC

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Technical Information

MATERIALS USED:

EnviroGrid® EGA30 4"

4,000m²

APPLICATION:

Channel Protection

PROJECT LENGTH:

3 week installation

Design Solutions

First, a nonwoven geotextile layer was laid atop the sub-base material to act as a separator to impede erosion between the layers. Then, the 4-inch geocell layer was installed and filled with local material; a mixture of local sand and soil. After the geocell was put into place, stabilizing the slopes, a layer of sod was laid directly on top.

Results

EnviroGrid® was able to combat erosion control issues by confining the local soils in order to provide stability to the steep man-made slopes. The complete site preparation, installation and finishing work was completed by local gardeners in about three weeks.



Geotextile Layer



EnviroGrid® Geocell Layer



EnviroGrid® Geocell Infilled with Native Sandy Soil



Sod and Vegetation