



## GEOFABRICS CASE STUDY



# GEOWEB ENABLES FAST RESPONSE TO BEACH HAVEN LANDSLIP RISK

## PRODUCTS USED

### Geoweb® Cellular Confinement Geocell System

- Made from robust UV resistant high-density polyethylene (HDPE), the system contains a network of interconnected cells that confine and compact soil
- Quick installation through the use of patented ATRA clip connection system or high strength tendons, saving on installation costs
- Eco-friendly soil stabilisation solution that blends into the natural environment
- Reduces the thickness of structural support elements by 50% or more



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## PROJECT DESCRIPTION

Following Tropical Cyclone Gabrielle in 2023, a residential site in Beach Haven in New Zealand experienced significant slope instability. Topsoil was sliding down the steep slope into neighbouring properties, creating both safety and environmental concerns.

The project required the removal of slip material and a structural solution, Geoweb Cellular Confinement Geocell System was chosen to prevent further soil loss.

## OUR SOLUTION

Access to the site was limited by a narrow driveway, which added complexity to the operations. To prepare the site for the Geoweb cellular confinement system installation, the contractors removed the spoil, constructed a timber palisade wall, installed a drainage system, and backfilled the area with 400 m<sup>3</sup> of compacted crushed concrete.

To stabilise the 30-degree slope, Geofabrics worked with Presto Geosystems on a design using the Geoweb geocell system. The solution incorporated 150 millimetres Geoweb panels secured with six tendons per panel and earth anchors at the crest. Panels were filled with topsoil, and vegetation was planted in the cells to provide long-term cover and erosion protection. Silt socks were installed along the crest to manage water flow during construction.

With Geoweb stock available locally, procurement was immediate and construction commenced without delay.



**30°**  
slope stabilised

**Vegetated finish for  
long-term  
erosion  
protection**



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