

Case Study

Geofabrics

Project: Bunbury Highway, Perth
 Date: Dec 2006 - Dec 2009
 Client: Main Roads Western Australia
 Location: Karnup WA



SGA was formed to design, construct and deliver the New Perth Bunbury Highway (NPBH) and is comprised of three industry leaders; Leighton Contractors, WA Limestone and GHD, working in conjunction with Main Roads Western Australia (Main Roads).

Construction of the NPBH is recognised as a dynamic and challenging infrastructure project involving design and construction of 70.5 kilometres of dual carriageway, 32 kilometres of which will be developed to freeway standard.

The project is expected to deliver significant benefits to Western Australians, by enhancing efficiency and accessibility of the State road network.

NPBH is the largest infrastructure project undertaken by Main Roads and will provide a gateway to the Peel and South West regions reducing travel time for road users by approximately 30 minutes.

Geofabrics Australasia Pty Ltd are proud to be the major supplier of Geosynthetic Products to this prestigious project.



Products include -

- 120,000m² Ten Cate Polyfelt WX 100/50 high strength, high tenacity woven geotextile, to improve poor insitu soil conditions at both of the Murray River South and Karnup Interchange sites.
- Bidim A24 and A34 non-woven geotextiles together with Tensar SS30 Geogrids, utilized along the route to stabilize and separate the poor subgrade from the imported sub-base materials.
- A number of custom made floatation curtains have been installed on the major river crossings. These curtains help control the movement of suspended silt washed down into the rivers from the surrounding disturbed soils.



Some key facts about the project

- construction of the NPBH commenced in December 2006;
- completion of the project is expected by December 2009;
- 70.5 km of dual carriageway will be constructed;
- 5 interchanges will be constructed;
- 9 intersections will be constructed;
- 9 fauna underpasses are proposed for the northern section;
- 3 pedestrian underpasses are proposed for the northern section at Safety Bay Road, Karnup Road and Paganoni Road Interchanges;
- 6 fauna underpasses are proposed for the southern section;
- 2 pedestrian underpasses will be located in the southern section at Lakes Road Interchange and the Pinjarra Road Interchange.

For further information on any of these products can be obtained by contacting your local Geofabrics Australasia Pty Ltd offices.

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