

Northern Gateway, Auckland, NZ

Client

Transit New Zealand.

Project

The Northern Gateway project involves construction of a 7.5 km section of motorway between Orewa and Puhoi. The route crosses areas of native bush which has high environmental sensitivity and steep topography requiring a number of major bridges, tunnels and deep cut/fills. The project is currently the largest roading works in NZ valued at \$350 M. Special attention has been given to protection of the area and includes eco-viaducts, fish passages, water quality treatment facilities and the use of construction methods which have minimised disturbance of the bush. Tonkin & Taylor has been a full alliance member of the project design and construction team.

Services provided

- Geotechnical investigations
- Tunnel engineering for twin 370 m length tunnels
- Bridge foundations for structures up to 500 m long and 30 m high, and retaining wall design
- Environmental planning and resource consents
- Hydrology and drainage design
- Earthworks design, sediment control and viaduct systems

- Embankment design for fills up to 20 m
- Cut slope stability for batters extending up to 50 m deep
- Pavement design.



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