Glenorchy – consequences of a changing future landscape and climate

Future Changes Anticipated

Geomorphic change –

rivers, floodplains and deltas

As is expected in braided river systems, erosion and channel migration likely at other sections of these floodplains.

Riverbed aggradation

Ongoing sediment deposition in the Rees riverbed gradually raises riverbed levels.

Based on survey data this rise is at least 0.1m each decade, and may be as high as 0.2-0.4 per decade.

Continued rise of the Rees channel will eventually breaks its banks to form a new channel through the wetland and lagoon.

Delta growth

The delta shoreline will continue to grow into the lake at a rate of 2 or 3 metres every year.

Climate change

The climate will continue to change, with more frequent and heavier rainfalls.

This causes larger and more frequent flood events, and an increased rate of sediment transported through the river system.

Higher intensity rainfalls may also cause more likely rainfall-triggered events such as alluvial fan activity and debris flows.



