



Notes:
0.5m Freeboard added
Where no flooding is predicted the level shown represents the ground level

For further details and explanation refer to report
"Hydraulic Modelling, Rangitaiki Plains: Tarawera River to Rangitaiki River
Environment Bay of Plenty Operations Publication 2006/06"
Map is based upon best available information at time of preparation March 2007

(By definition, there is a 2% probability of getting a 2% AEP (Annual Exceedance Probability) flood or a larger flood in any given year. A 2% AEP flood is also referred to as a "1 in 50 year flood" or more simply, as a 50 year flood")
Ground elevations of specific locations should be verified through survey.

2% AEP Flood Level Contour Map Rangitaiki Plains between Tarawera and Rangitaiki Rivers

This contour map to be read in conjunction with Map 2 showing flood area

Scale: 1 : 30 000

0 0.9 1.8 2.7 3.6 4.5 Kilometres

Notes:
This map represents the envelope of maximum flood levels with freeboard for each of five flood scenarios:

- 1) A breach at Laws Bend, Rangitaiki River (Left Bank), with 1% AEP Storm surge tide and 5% AEP Rangitaiki River Flows.
- 2) A breach at Laws Bend, Rangitaiki River (Left Bank), with 5% AEP Storm surge tide and 1% AEP Rangitaiki River Flows
- 3) A breach downstream of Thornton Road, Rangitaiki River (Left Bank), with 1% AEP Storm tide and 5% AEP Rangitaiki River Flows
- 4) A breach at downstream of Thornton Road, Tarawera River (Right Bank), with 1% AEP Storm tide and 5% AEP Tarawera River Flows
- 5) 1% AEP Rainfall on the Rangitaiki Plains and 5% AEP Tide

Storm surge tides include an allowance for sea level rise through 2100 due to Global Warming.
Within shaded area, flood levels dominated by a breach at Kokohinau Bend, Rangitaiki River (Left Bank). Refer to inset map.

The flood levels / flood depths shown on the scenario above represents the estimated 2% AEP scenario in the year 2055 (with intensification of heavy rainfall due to global warming and is the same as the current 1% AEP flood/level data. Levels are shown with respect to Moturiki Datum).