

Seismic Projects Under Evaluation or Not Completed

- Relocation of the Kaitoke main between SH2 and SH58. (separate report to November 2002 Utility Services Committee meeting).
- Hutt River crossing at Silverstream. Upper Hutt City Council have programmed bridge strengthening in about four years.
- Randwick pumping station and valve chamber. Point Howard reservoir pumps likely to be relocated to a new, above ground pumping station.
- Waiwhetu Stream crossing at Hutt Park. Currently under investigation.
- Paremata Bridge
 - Pipeline will be shifted to the new road bridge currently being constructed.
- Johnsonville pumping station seismic performance
 - Being evaluated
- Karori Pumping station
 - Major refurbishment now due. However, relocation of the pumping station to a more secure location is being considered and suitable sites are being evaluated.
- A replacement for Haywards Reservoir
 - The reservoir is positioned on land that is likely to be unstable during a major seismic event.
- Alternative water source for the Te Marua water treatment plant
 - Damage is expected to Tunnels 1 and 2 (both only partly lined) during a fault movement earthquake.
 - The Kaitoke intake structure could be buried.
 - Even though the flume bridge has been strengthened, a cascade of water from a dam burst caused by a slip in the catchment could destabilise the flume bridge
- Stuart Macaskill Lakes – intake towers
 - Concrete spalling at the base of the towers may be sufficient to allow the lakes to leak through the towers. Minor strengthening work is being investigated.
- Stream crossings between the Orongorongo No.2 tunnel and the Wainuiomata Water Treatment Plant
 - To be replaced when the pipeline is replaced
- Big Huia Stream Pipeline Bridge
 - Currently being assessed.

The cost of these projects in 2002 dollar values is not known at this stage as design work has not been completed. However, the all up cost is expected to be several million dollars.