

KEY ACTION POINTS

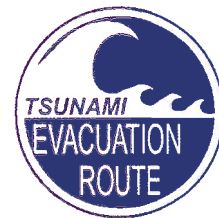
Distance Tsunami will result in an extended signal from ALL Fire Stations. Listen to your radio station for further details and be prepared to go to HIGH GROUND above the white 20 metre/65 feet contour line.



(White line indicates 20 metre contour line)

If you observe **unusual behaviour in the tide** or experience a **strong earthquake** then

GO IMMEDIATELY TO HIGH GROUND



Know where your nearest High Ground is and how to get there.

KEEP AWAY FROM THE BEACH AND LOW LYING AREAS.

The following signs will assist you in the evacuation process.



HAHEI/HOT WATER BEACH/WHENUAKITE AND VISITORS TO CATHEDRAL COVE AREA.

Tsunami Action Plan

Hahei Beach



What Can Happen

How Will We Know

What Do We Do



Updated 2nd April 2009.

HAHEI/ HOT WATER BEACH/ WHENUAKITE AND CATHEDRAL COVE TSUNAMI PLAN

A Notice to All Residents/Visitors

Recent Geological Investigations have identified Mercury Bay as a HIGH tsunami risk. We are close to the Kermadec fault line which in time will generate a damaging Tsunami. In addition we are close to the volcanoes White Island & Mayor Island.

Present information suggests in the event of a Tsunami wave heights could reach 5 METRES or 17feet across all low lying land.

No-one knows when. BUT in time it will happen. The Indonesian Boxing Day Tsunami of 2004 reminds us we live in a high risk area.

Our local area is serviced by roads which pass through low lying land which are already prone to flooding. Couple this with a high number of seasonal visitors holidaying or visiting Hot Water Beach and Cathedral Cove. Then we certainly have the potential for a situation to worsen if for example people decided to evacuate the area by vehicle. Picture the congestion leaving Hot Water Beach, Hahei and Whenukite. It is important that you read this plan which is simple in terms of minimising personal risk. Prepare your SURVIVAL PLAN (High Ground Safety Zone) and share this with the many visitors to our area by retaining the attached map e.g. on your Fridge or pin board.

WHAT CAN HAPPEN?

Yes you do live in an area subject to possible inundation from a tsunami event.

Tsunamis have a low probability (usually several hundred years between large events) but an extreme consequence on impact.

There are two types of Tsunami and we need to understand the difference.

- The first is known as a 'Distal' (Distance) tsunami. It occurs far from New Zealand and may take from three to twelve or more hours to arrive. Pacific monitoring ensures that we have the maximum warning time possible, an indication of the wave height, an expected arrival time and likely areas of maximum impact.
- The second is a 'Near Source' Tsunami generated by an earthquake, underwater landslide or volcanic eruption off the New Zealand coast. Estimated wave heights of 5 metres/17 feet (the height of a telephone pole) across all coastal land. Tsunamis generated at the Kermode's, travel up to 800kms per hr and could arrive at our coast in 50 to 70 minutes.

Your first and probably only indication of a local tsunami will be a major earthquake (one that is hard to stand up in), unusual noises or changes in the ocean (e.g. the ocean rushing out or in) A mild earthquake is unlikely to generate a tsunami.

HOW WILL I KNOW?

Distal (Distance) Tsunamis

- Civil Defence will have time to issue a warning.
- All local Fire brigade sirens will sound for an extended time in excess of 10minutes.
- Note Hot Water Beach will manually use the Surf Rescue siren.
- Where possible Fire Service will patrol using loud speakers to issue instructions.
- Turn on your Radio/TV for updates.

The key safety precaution is to **keep away from the Beach and low lying areas** until the danger has passed.

Near Source (Local) Tsunamis

Your first and probably **only indication of a local tsunami** will be a **major earthquake** or signs of extreme activity, including the sea surging out. An eruption at Mayor or White Island would not allow for warnings to be issued and we could be affected by a tsunami **within 12 to 20 minutes**.

WHAT DO I DO?

This is the important one.

Knowing what to do will save your life and others near you.

- **YOU MUST KNOW YOUR LOCAL TSUNAMI ACTION PLAN**
- **KNOW YOUR NEAREST REFUGE HIGH GROUND POINT.**
- **YOU AND YOUR FAMILY SHOULD HAVE PRACTISED YOUR ESCAPE ROUTE.**
- **HAVE YOUR SURVIVAL KIT packed in a waterproof backpack ready to go.**
- **DO NOT USE YOUR VEHICLES IN THESE CIRCUMSTANCES.**

Each brochure will have with it a Civil Defence Emergency Management pamphlet entitled "Get to High Ground or Go Inland". It is strongly suggested you read this for important information on basic survival tips and what is required for Emergency Survival.

You will need to find your own way to HIGH GROUND above the 20 metre/65feet contour line. (White Line on the Map)

If you are disabled, have impaired hearing, or for any other reason may not be able to hear or react to a warning, please ensure your needs are known to someone. Consider a buddy system.

It is recognised that this may not be an easy situation for many. However we are talking about a low probability but extreme event. You may be uncomfortable for a time but you will be alive.

Note the locality of your nearest 'High Ground'.

SIGNAGE

Eventually all 'Evacuation Routes' will be sign posted. However this may not occur by the time this brochure is distributed.

For further information and advice on the content of this pamphlet please contact the Hahei Voluntary Fire Service, or your local Ratepayers Association.