

# Situation Report

<b>Coordination facility:</b> National Crisis Management Centre (NCMC)	<b>SITREP number:</b> 004
<b>Event name:</b> Hanmer Springs Earthquake and Tsunami	<b>Effective as at:</b> 09:45 hours, 15 November 2016
<b>Activation status:</b> The NCMC was activated at 00:30 NZDT on 14 November 2016.	<b>Declaration status:</b> Local states of emergency declared
<b>Declared area:</b> Hurunui District @ 11:56 NZDT on 14 November 2016 Kaikoura District @ 10:15 NZDT on 14 November 2016	<b>Time declared:</b>
	<b>Declaration expires:</b>

## Overview

### Summary of Incident / Event

#### Earthquake

A M7.5 earthquake occurred north-northeast of Amberley, New Zealand at 00:02 NZDT on 14 November 2016. Strong to severe shaking was felt throughout New Zealand and lasted for over two minutes in some locations. Significant aftershocks have occurred overnight (15 November 2016), with several > M5.0.

#### Tsunami

Tsunami waves were detected on the New Zealand Tsunami Gauge Network in Kaikoura (c.2-3 m) and Christchurch (c.1m) (Canterbury), Wellington and Castlepoint (Wairarapa). MCDEM issued tsunami warning messages via the National Warning System (NWS) until 15:00 NZDT on 14 November 2016. There is no tsunami warning in place at present.

#### Regional Areas of Focus

Response operations are underway and are primarily focused on the following districts/regions (from south to north):

1. Hurunui District
2. Kaikoura District
3. Marlborough District
4. Wellington Region (with a large focus on Wellington CBD)

### Actions Carried Out:

#### National

1. The NCMC was activated at 00:30 NZDT on 14 November 2016 and remain active at Mode 2
2. NWS tsunami warning messages were issued until 15:00 NZDT on 14 November 2016
3. A National Action Plan has been developed to guide NCMC operations
4. The NZ Defence Force has deployed a P3 Orion to survey damage; Geospatial Intelligence is providing basic mapping of the damage
5. HMNZS Wellington and Canterbury as well as NH90 helicopters have been dispatched to assist with assessments and response operations
6. The CDEM presence in Kaikoura has been bolstered in cooperation with the CDEM Groups
7. The Transport Response Team (TRT) (NZTA, Kiwirail, MNZ, CAA) has been convened and is assessing road, rail and maritime networks

#### Hurunui/Kaikoura District

1. NZ Defence Force NH90 helicopters have been deployed to transport staff and resources, and assist with evacuations; NZ Defence Force helicopters are available for further tasking
2. Urban Search and Rescue teams, and CDEM, Police and Red Cross staff have been deployed to the area

3. Welfare centre opened at the Kaikoura Marae from 11:00 NZDT on 14 November 2016
4. CDEM support supplies and building inspectors have been deployed

**Marlborough District**

1. Marlborough EOC is activated and responding

**Wellington Region**

1. MBIE and WREMO are working in conjunction to manage ongoing building assessments in the CBD

**Predicted Incident / Event Progression:**

Several earthquake scenarios have been developed by GNS Science for how future earthquakes may continue to occur over time.

Aftershocks are expected to occur over the next few months in each case.

The threat of another tsunami cannot be ruled-out, particularly if a large earthquake occurs offshore.

**Resources in Place:**

Police, NZ Fire Service, NZ Defence Force, Ministry of Transport, NZTA, Ministry of Health and Ministry of Education are in place in the NCMC.

**Resources Required:****Hurunui/Kaikoura District**

A rapid needs assessment has identified that water, food and fuel is required in Kaikoura, and also generally across the districts.

**Marlborough District**

A rapid needs assessment has identified that water, food and fuel is required across the district, particularly in Ward, Seddon and Blenheim.

**Limiting Factors:**

Rapid impact assessments are continuing across the affected districts/regions, however, the full extent of the damage has not yet been determined.

Damage to the SH and other road networks will limit access to certain areas.

It has been identified that there may be limitations on helicopter fuel.

Severe weather will continue for some parts of New Zealand today (15 November 2016) and later in the week, which may affect response operations, including:

- **Severe gale** north to northwest winds in exposed parts of Wellington, Wairarapa and Marlborough (easing today)
- **Heavy rain** for central and southern New Zealand over the ranges of Westland, Buller and Nelson, where 150 to 200 mm will continue today, and over Marlborough Sounds and the North Canterbury high country close to the main divide until midday

**Assessment:**

The landslide dam on the Clarence River north of Kaikoura breached at around 16:40 NZDT on 14 November 2016; no issues have been reported as a result of the breach.

**Hurunui/Kaikoura District**

Kaikoura is isolated due to landslides and damage to the north and south of the town along SH 1; options for alternatives routes are being investigated by the TRT.

Within the Hurunui district, extensive damage at several centres (and on the road network servicing these centres) has been identified, including Mt Lyford, Hanmer, Culverdon, Waiau and Rotherham.

## Social/Community

### Summary:

MBIE's temporary accommodation team is on standby and ready to activate. There is still uncertainty about the number and demographics of displaced people, and information is being sought regarding the potential ongoing emergency and temporary accommodation needs.

There have been no reports of children separated from their usual caregivers. Care and protection services are on standby in case any issues arise.

### Hurunui/Kaikoura District

A welfare needs assessment is underway; however in the Hurunui District an outreach programme coordinated by Canterbury CDEM Group via CDEM volunteers and NZ Response Team staff will be undertaken in Mt Lyford and Waiau from this morning (15 November 2016).

A psychologist is being deployed to Kaikoura.

Access and communication into Kaikoura remains difficult, but a list of household goods required by the affected community is currently being developed. The provision of household goods to Kaikoura is ongoing, with air and sea currently the primary access channels due to damage to road and rail networks.

CDEM continues to provide emergency shelter where required. Approx. 200 people (mainly tourists) were being sheltered at the Takahanga Marae (CDC) in Kaikoura over night.

### Marlborough District

A rapid needs assessment has identified that water, food and fuel is required across the district, particularly in Ward, Seddon and Blenheim.

### Wellington Region

No issues to report at present.

### Hospitals and Medical Centres:

Kaikoura hospital is operational, running on a diesel generator with approximately two days fuel supply remaining. Marlborough hospital facilities are operational, minor damage to some sites. Wellington hospital facilities are operational, and no issues have been reported.

## People missing, injured, fatalities

Area	Missing	Injured	Fatalities	Additional information
Hurunui	-	0	1	Fatality believed to have occurred from a heart attack. No serious injuries reported at present.
Kaikoura	-	56	1	Fatality due to a house collapse at Peketa along SH1. Seriously injured people have been moved to Christchurch; other injuries are minor and being treated locally.
Marlborough	-	0	0	No fatalities or serious injuries reported at present.
Wellington	-	0	0	No fatalities or serious injuries reported at present.

## *Transportation and lifelines status*

Service	Description
Road	<p>Progress is being made to open roads in the affected districts/regions. Minor repairs and inspections have allowed the following roads to be re-opened with caution:</p> <ul style="list-style-type: none"> <li>• SH7 Waipara to Springs Junction with SH65 is open (with cautions)</li> <li>• SH1 Blenheim – Picton is now open (with caution);</li> <li>• An alternative route is open to all traffic both ways from Blenheim to Waipara – route is SH6 (Blenheim) – SH63 – SH6 (Murchison) – SH65 (Springs Junction) – SH7 – onto SH1 (Waipara); the alternative route is 398 km compared to the SH1 route (between Blenheim and Waipara) of 276 km</li> <li>• SH 7A has re-opened for the day</li> </ul> <p>The Inland Road between Culverden and Kaikoura is being investigated as an alternative route to access Kaikoura from the south, but at this stage, it remains closed due to rockfall and concerns about bridges, including the Waiau River Bridge. The current estimated time for this road to be opened is two day, to be assessed by 12:00 NZDT 15 November 2016.</p> <p>In Wellington, the Hutt River and Porirua Stream are rising due to heavy rainfall, which could flood roads. SH 58 (Haywards Hill) is closed between Whitby and Pauatahanui. SH1 at McKay’s Crossings is also closed.</p> <p>Cobham Bridge (SH3) in Whanganui shows cracking and needs inspection, but is still open.</p>
Rail	<p>North Island main trunk line is open. Wellington passenger lines are operational.</p> <p>KiwiRail are assessing extensive damage on the Northern Main Line in the South Island particularly around the Seddon and Kaikoura areas where bridges have been damaged, lines shifted extensively off their footings, and slips are across the tracks.</p> <p>Kiwirail is working with coastal shipping partners to identify what other methods of moving passengers, cars and freight may be possible from Picton to Lyttelton.</p>
Airport	All airports are operational.
Port	<p>All ports except CentrePort (Wellington) are fully operational. Interisland ferries: Kaitaki and Kaiarahi are operating. These sailings will carry freight and vehicle passengers only. Foot traffic passengers are suspended due to terminal damage and lack of access to gangways. The Aratere ferry will remain anchored in Wellington Harbour till a berth becomes available. This is likely to be today.</p> <p>Seaview marina is still being assessed for fuel tanker access.</p>

### **Lifeline Utility Needs:**

Lifeline utility needs, including essential services, to be included in future Situation Reports.

## *International*

### **International Liaison:**

MFAT are fielding inquiries via Embassies from overseas relatives of people in New Zealand whom they can't contact after the earthquakes. MFAT will triage the inquiries and then forward to NCCC.

## *Additional information*

### **Hazards:**

GNS Science estimate that around 100,000 landslides have occurred and many are blocking roads. One landslide is at least 1 million cubic metres in volume.

CDEM Groups are keeping a close eye on the severe weather forecast for the remainder of today. Increased rainfall may increase slips and hamper response operations.

### **Outline Plans:**

Logistics planning is ongoing at regional and national levels to support the worst affected areas.

<b>Report authorised by:</b> David Coetzee	<b>Report prepared by:</b> NCMC Intelligence
<b>Date/time of approval:</b> 10:00 NZDT on 15 November 2016	<b>Next situation report will be issued at:</b> 15:00 NZDT on 15 November 2016