

UNDER

THE COMMISSIONS OF INQUIRY ACT 1908

IN THE MATTER OF

ROYAL COMMISSION OF INQUIRY INTO BUILDING FAILURE CAUSED BY CANTERBURY EARTHQUAKES

KOMIHANA A TE KARAUNA HEI TIROTIRO I NGĀ WHARE I HORO I NGĀ RŪWHENUA O WAITAHA

STATEMENT OF EVIDENCE OF STEPHEN JAMES MCCARTHY IN RELATION TO 617
- 625 COLOMBO STREET

DATE OF HEARING: WEEK BEGINNING 12 DECEMBER 2011

## INTRODUCTION

- 1. My name is Stephen James McCarthy. I am the Environmental Policy and Approvals Manager of the Christchurch City Council. I have worked for the Council since 1 May 2006. During the State of Emergency following the earthquake of 4 September 2010, I was one of the Building Evaluation Managers in the Christchurch City Emergency Operations Centre.
- I have 36 years of experience working for local government, including 16 years in building control. I have a Degree in Applied Science and a Post Graduate Diploma in Management from Massey University and a Royal Society Diploma in Environmental Health from Wellington Polytechnic.
- 3. I have been asked to provide evidence to the Royal Commission relating to specific aspects of the Council's involvement with 617 Colombo Street before and after the earthquake of 4 September 2010 and the Boxing Day aftershock.

### DOCUMENTS PROVIDED TO THE ROYAL COMMISSION

- **4.** The documents relating to this building that have been provided to the Royal Commission are:
  - (a) the Building Permit/Building Consent file for 617 Colombo Street; and
  - (b) post earthquake files.

## SCOPE OF EVIDENCE

- **5.** My evidence will address the following matters:
  - (a) The Civil Defence Emergency Management Response in relation to the building after the 4 September 2010 earthquake.
  - (b) Council involvement with the building subsequent to the lifting of the state of emergency on 16 September 2010.

- (c) Whether 617 Colombo Street was assessed as 'earthquake-prone' for the purposes of section 122 of the Building Act 2004.
- (d) The effect of any strengthening undertaken.
- (e) The application of the Council's earthquake prone policies of 2006 and 2010 to the building, if relevant.

## EVENTS AFTER THE 4 SEPTEMBER 2010 EARTHQUAKE (Paragraphs (a) and (b))

- l attach an aerial map of 617 Colombo Street to indicate which buildings were located at this address (Annexure "A"). 617 Colombo Street is a large premises, and the Council's Webmap records note that the property is also known as 143 Tuam Street (Switched on Gardener), 623 Colombo Street (JJ Club) and 625 Colombo Street (Silk Bowl Food Post (downstairs)). The aerial map attached indicates which parts of the building were sometimes referred to as 143 Tuam Street, 623 Colombo Street, and 625 Colombo Street. However I note that the entire building is in fact 617 Colombo Street.
- 7. A Level 1 Rapid Assessment was carried out for 143 Tuam Street (first floor Respawn Limited) on 5 September 2010 which resulted in a green placard. (Annexure "B"). A Level 1 Rapid Assessment was also carried out for 143 Tuam Street (ground floor Switched on Gardener) the assessment form was signed on 5 September 2010 and resulted in a green placard. (Annexure "C").
- 8. A Level 2 Rapid Assessment was carried out on 7 September 2010 which stated that the building address was 143 Tuam Street while the actual address was 617 Colombo Street. The stated building name is Switched on Gardener. Minor damage was noted. Under general comments it is recorded "Recommend inspection of upper level and repair cracks in brick walls. Inspection at 143 only". (Annexure "D").
- 9. I note that the building assessment dated 7 September 2010 has a Beca stamp on it. I understand that at the time, Colliers, as property manager, engaged Beca to carry out building inspections of the buildings that it managed. It is possible that this assessment was carried out by Beca as part of this process,

and therefore was carried out on behalf of the building owners, rather than being an assessment carried out by the volunteer engineers as part of the Civil Defence Emergency.

- A Level 1 Rapid Assessment was carried out for 625 Colombo Street (Silk Road Food Post) on 5 September 2010 which resulted in a green placard. (Annexure "E"). A Level 1 Rapid Assessment was carried out for 623 Colombo Street (JJ Club) on 5 September 2010 which resulted in a green placard. (Annexure "F"). A Level 1 Rapid Assessment was carried out for 617 Colombo Street (Sampan House) on 5 September 2010 which resulted in a green placard. (Annexure "G").
- 11. The Beca report (BUI.COL617-625.0011.7) on the Royal Commission's secure website states that two rapid assessments of the building were undertaken by Beca on 10 September 2010 and 15 September 2010. The Council has been unable to locate any record of receiving those rapid assessments from Beca or the building owners.
- 12. As the building received green placards in September and the Council had not received any notification of the building being potentially unsafe, no further assessments would have been carried out by the Council.
- On 26 February 2011, a Level 1 Rapid Assessment was carried out which resulted in a red placard on 617 625 Colombo Street. (Annexure "H"). Under general comments, the inspector has noted that the front façade has completely collapsed onto the street and that it was too dangerous to place a placard.
- 14. The next day (27 February 2011) there were two further Level 1 Rapid Assessments carried out on 617 Colombo Street, one for Sampan House and one for Respawn/Switched on Gardener (Annexure "I"). This time they both resulted in a yellow placard. Under comments, the inspector has written for Respawn/Switched on Gardener "Parapet damage" and for Sampan House "Neighbouring parapet. Isolated risk from neighbouring building."
- As outlined above, 617 Colombo Street was a large building, which was often referred to as different addresses. The rapid assessment form dated 26 February 2011 states that the address is to be confirmed. 623 Colombo

Street has been crossed out and replaced with 617 Colombo Street. There is no building name. The assessment carried out on 27 February 2011 states that the building is 617 Colombo Street and the building name is Sampan House. It is possible that the two assessments were carried out on adjacent premises.

16. I also attach a photograph taken of the building after the 22 February earthquake. (Annexure "J"). The photograph shows the part of 617 Colombo Street which has collapsed. It is likely that this part of the building was actually referred to as 623 Colombo Street, and this correlates with the rapid assessment forms completed, as the front façade of what is referred to as 623 Colombo Street has collapsed onto the street, while Sampan House has minimal damage.

# APPLICATION OF RELEVANT LEGISLATION AND THE COUNCIL'S EARTHQUAKE PRONE POLICY (Paragraphs (c) to (e))

- 17. Under the provisions of the Building Act 1991 the building was deemed to be earthquake prone because it was constructed of unreinforced masonry.
- 18. The building was strengthened in a two stage project in 1994 to meet the requirements of section 66 of the Building Act 1991. The work included adding extra walls in a North-South direction, adding an over-lay to the first floor to provide a diaphragm and connecting this to the walls, and tying existing brick parapets back to the roof system.
- 19. This work strengthened the building in excess of the requirements set in the Building Act 1991, but the strengthening was unlikely to have met the increased standard in the Building Act 2004 and 2005 Regulations.
- The Building Act 2004 had no provision deeming certain buildings to be Earthquake Prone. Rather, the Building Act 2004 and the relevant 2005 Regulations, which defined the level of strength below which a building could be classed as Earthquake Prone, raised the threshold level significantly from about 10% of new building standard to about 33% of new building standard.
- 21. This meant that buildings that had been strengthened prior to the commencement of the relevant 2005 Regulations would probably be earthquake

prone under the new standard. The building at 617 Colombo Street was noted as earthquake prone prior to 4 September 2010.

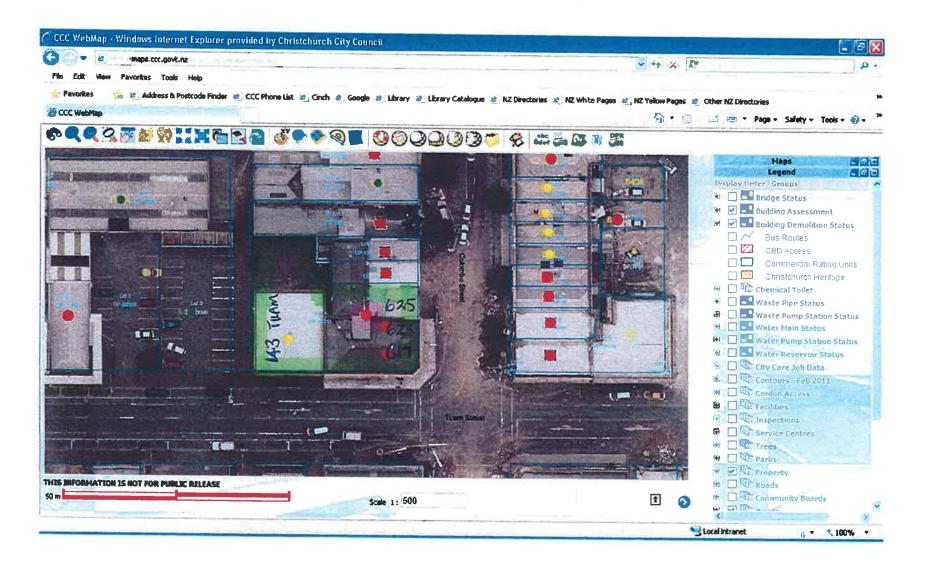
- 22. The strengthening work referred to above was undertaken prior to the introduction of the Earthquake Prone Buildings Policy 2006. The Policy did contain a separate section 3 relating to heritage buildings as required by section 131 of the Building Act 2004. However there was no further building work undertaken that would necessitate an application of section 3 of the Policy to this building.
- 23. If a building consent application had been received, an assessment of the application would have been made to see if it could be considered to be a Significant Alteration as defined in the Policy. If the work was in this category, the procedure in the Policy would be followed (see section 1.7 of the Policy).
- 24. In 2009, there was a proposal for a new kitchen facility. The work was started but the owner had not advised the Council that the work was completed by September 2010. The consent was valued at less than \$50,000 and did not affect the structural support of the building. The building's rateable value was \$2.17 million and so the value of the work was less than 25% of that value. Therefore the work was not a significant alteration and the 2006 Policy did not require strengthening work to be done.

**Dated** 

8 December 2011

Stephen James McCarth









"B"



## Christchurch Eq. RAPID Assessment Form - LEVEL 1

|                | Inspector Initials Territorial Authority        |   | RVG<br>hurch City                           | Date of Ins<br>Time           | pection                | [           | \$19/2010            |        | erior Only<br>erior and Interior   |     |
|----------------|---|---|---|-------------------------------|------------------------|-------------|----------------------|--------|--|-----|
| _              | Bullding Name<br>Short Name                     | Resi                                    | own Ltd                                     |                               | Type o                 | f Constr    | uction               |        |  |     |
| 1              | Address   | 145                                     | Tuam Sta                                    | 1                             |                        | Timber fra  |                      | П      | Concrete shear wall  | 10  |
|                | Addi ess  | 14.5                                    |   | 81A-                          | _                      | Steel fram  |                      | 8      | Unreinforced masonry   |     |
|                | GPS Co-ordinates                                | 157<br>So                               | floor<br>E                                  |                               | _                      | Tilt-up cor |                      |        | Reinforced masonry   |     |
|                | Contact Name                                    |   |   |                               |                        | Concrete    |                      |        | Confined masonry   |     |
|                | Contact Phone                                   |   |   |                               | _                      |             | with masonry infill  |        | Other:   |     |
|                |   | <del></del>                             | D.L.  |                               |                        | y Occup     | •                    | _      |  |     |
|                | Storeys at and above<br>ground level            | 2                                       | Below ground<br>level                       |                               | *                      | ) welling   | ,                    |        | Commercial/ Offices  |     |
|                | Total gross floor area<br>(m²)                  | 720                                     | Year built                                  |                               |                        | Other resi  | dential              |        | Industrial   |     |
|                | No of residential Units                         |   | _   |                               | ☐ P                    | ublic ass   | sembly               |        | Government   |     |
|                | TO OF TOO I GOT TO                              |   |   |                               | s                      | School      | -                    |        | Heritage Listed  | 1   |
| $\setminus$    | Photo Taken                                     | Yes                                     |   |                               | □ R                    | Religious   |                      |        | Other  |     |
| Ove            | stigate the building fo<br>rall Hazards / Damag | ge                                      | Minor/Noné                                  | Moderate                      |                        | Severe      |                      |        | Comments   |     |
| Colla          | ipse, partial collapse, of                      | f foundation                            | 3   |                               |                        |             |                      |        |  |     |
| Build          | ling or storey leaning                          |   | <u> </u>                                    |                               |                        |             |                      |        |  |     |
| Wall           | or other structural dama                        | age                                     | G,  |                               |                        |             |                      |        |  |     |
| Over           | head falling hazard                             |   | Ø   |                               |                        |             |                      |        |  |     |
| Grou           | nd movement, settleme                           | nt, slips                               |   |                               |                        |             |                      |        |  |     |
| Neig!          | hbouring building hazard                        | t                                       | 团   |                               |                        |             |                      |        |  | 11) |
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|                | Record any restri                               | ction on u                              | se or entry:                                |                               |                        |             |                      |        |  |     |
|                | Further Action Re                               | commend                                 | ed:   |                               |                        |             |                      |        |  |     |
| _              | ☐ Barricades are                                | needed (sta<br>ailed enginee<br>uctural | ering evaluation recor                      | mmended<br>olechnical         |                        |             | Other:               |        |  |     |
| Estin          | nated Overall Buildin                           | nti Damace                              | (Exclude Contents                           | s)                            | 14                     | Spo         | ST                   | 01 1   | ana an accession   |     |
| No<br>0-<br>2- | one   | A THE                                   | 31-60 %<br>61-99 %<br>100 %                 | s)                            | cole<br>opi s<br>r 3 P | 9063        | Date & Time          | HUZ.   | sere on completion  System  Sy | -   |

Inspection ID <u>ARB528</u> (Office Use Only)



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| Chri   | stchurch Eq.   | RAPID A                                    | ssessm                     | ent Form                              | - LEVEL 1   | 2               |
| Inspector Initials Territorial Authority   | ARB<br>Christchurch City   | Date of Inspecti<br>Time                   | on                         |                                       | Exterior Only<br>Exterior and Interior  |                 |
| Building Name  | Switched on  | Garden                                     | a of Construction          |                                       |   |                 |
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| Contact Name   |  |  | Concrete frame             |                                       | Confined masonry  |                 |
| Contact Phone  |  |  | RC frame with ma           | asonry infill                         | Other:  |                 |
| Storeys at and above ground level  | Below grou<br>level  | nd <b>Prin</b>                             | nary Occupancy<br>Dwelling | <u> </u>                              | Commercial/ Offices   |                 |
| Total gross floor area (m²)  | 720 Year built   |  | Other residential          |                                       | Industrial  |                 |
| No of residential Units  |  |  | Public assembly            |                                       | Government  |                 |
|  |  |  | School                     |                                       | Heritage Usted  | 1               |
| Photo Taken  | Yes No   |  | Religious                  |                                       | Other   |                 |
| Investigate the building for Overall Hazards / Damas Collapse, partial collapse, off Building or storey leaning Wall or other structural dama Overhead falling hazard Ground movement, settlement Neighbouring building hazard Other | foundation   |  | Severe                     |                                       | Comments  |                 |
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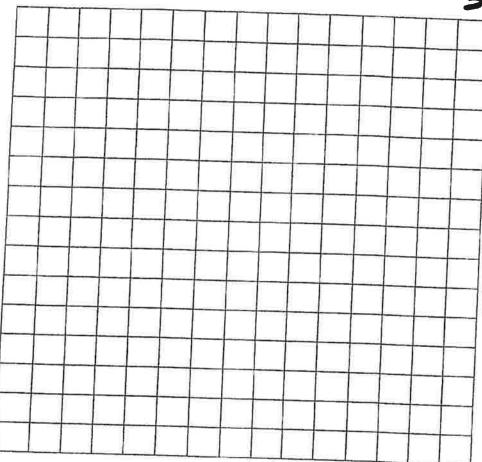
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| Contact Name   | wille          |                         |               | \\           | Concrete          | frame               |   | Confined masonry                |           |
| Contact Phone  | 370            | 6280                    |               |              | RC frame          | e with masonry      | infill 🔲                                | Other:                          |           |
| Storeys at and above   | _              | Below<br>ground         |               | Prin         | пату Оссир        | ancy                |   |                                 |           |
| ground level   |                | level                   |               | _ 🗆          | Dwelling          |                     |   | Commercial/Offices              | 1         |
| Total gross floor area<br>(m²)   |                | Year<br>built           |               |              | Other res         | idential            | П                                       | Industrial                      |           |
| No of residential Units  |                |                         | •             | -п           | Public ass        | nombly.             |   |                                 |           |
| \  |                |                         |               |              | School            | sembly              |   | Government                      | - 1       |
| Photo Taken  | Yes            | No                      |               |              | Religious         |                     |   | Heritage Listed Other           |           |
| Investigate the building for   | the condition  | ns listed on na         | age 1 and 2   | and oh       |                   |                     |   |                                 | _         |
| Overall Hazards / Damage   | )              | Minor/None              | Modera        | anu un<br>te | Severe            | propriate cor       | umn. A sketch                           |                                 | ige 3     |
| Collapse, partial collapse, off for  | oundation      |                         |               |              |                   |                     |   | Comments                        |           |
| Building or storey leaning   |                | V                       | $\Box$        |              | $\overline{\Box}$ | -                   |   |                                 |           |
| Wall or other structural damage  | •              | ⊠′                      | n             |              |                   |                     | 30                                      |                                 |           |
| Overhead falling hazard  |                | $\square$               | П             | (            |                   | Some                | MINSOK                                  | CRACKING 1                      | o wall    |
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| Neighbouring building hazard   |                | <b>⊠</b>                |               |              |                   |                     | y                                       |                                 |           |
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| Damage Intens Light damage  Low risk  Medium damage                                   | sity Posting  Inspected (Green)  Restricted Use (Yellow)               | Usability C G1. Occupiable, no in investigation requirementry Y1. Short term entry Y2. No entry to parts un  | Category  Inmediate further uired  Intil repaired or   | 3 000  | Ty   |
| Usability Category  Damage Intens  Light damage  Low risk  Medium damage  Medium risk | sity Posting  Inspected (Green)  Restricted Use (Yellow)  Unsafe (Red) | Usability C G1. Occupiable, no in investigation requ G2. Occupiable, repair Y1. Short term entry Y2. No entry to parts undemolished R1. Significant damage | Category  Inmediate further uired  Parequired.  Intil repaired or  I repairs, sible  I repolition likely | 3 000  | Ty   |

2 Inspection ID: \_\_\_\_\_ (Office Use Only)

| Sketch (optional) Provide a sketch of the entire building or damage points. Indicadamage points. | te |
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| Commenda | uons for Repair and Re                  | econstruction or Demolition  | (Optional) |  |
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# AC 25 Christchurch Eq. RAPID Assessment Form - LEVEL 1

| inspector Initials<br>Territorial Authority                                |   | hurch City  | Date of Insp<br>Time   | pection  |   | 5/9/2010<br>1415   | -4   | erior Only<br>erior and Interior   |  |
|--|---|---|--|--|---|--|--|--|--|
|  | Silk  | Road Food   | Post   | Туре о   | Constru   | ection   |  |  |  |
| \ddress  | 625   | Colombo S   | Freet  | □ ī  | imber fra   | me   |  | Concrete shear wall  |  |
|  |   |   |  | C) s   | tel fram  | e  | 달  | Unreinforced masonry   |  |
| SPS Co-ordinates   | S°  | Eº  |  |  | ilt-up con  | crete  |  | Reinforced masonry   |  |
| Contact Name   |   |   |  | Cond   |   | rame   |  | Confined masonry   |  |
| Contact Phone  |   | □ R   |  | RC frame with masonry infill   |   |  | Other:   |  |  |
| •  | 200   | Below ground<br>level   |  |  |   | ncy  |  | Commercial/ Offices  |  |
|  | 2   | Year<br>built   |  |  | ther resid  | lential  |  | industrial   |  |
| lo of residential Units  |   |   |  | ☐ P  | ublic asse  | embly  |  | Government   |  |
|  |   |   |  | ☐ s  | chool   |  |  | Heritage Listed  | 1  |
| hoto Taken   | Yes   | (NB)  | i  | R  | eligious  |  |  | Other  | _/   |
| rall Hazards / Damag<br>pse, partial collapse, off<br>ng or storey leaning | je<br>foundation  | Minor/None  | Moderate   | ;  |   |  |  | Comments   |  |
|  | age   | _   | 닏  |  | _   |  |  |  |  |
|  |   | <b>–</b> .  |  |  | _   |  |  |  |  |
| nd movement, settl <b>eme</b> r  | nt, slips   |   |  |  | _   |  |  |  |  |
| bouring building hazard  |   |   |  |  | _   | 77   |  |  |  |
|  |   | ₫   |  |  |   | broken A   | biss c   | of upper ground  | flow   |
| UNSAFE posting.  | Localised S   | evere and overall N   | loderate con   | ditions  | ere cond<br>may req   | itions affecting thuire a RESTRICTI  | e whole i  | ouliding are grounds for<br>Place INSPECTED placa  | an<br>rd at  |
|  |   |   | F  | RESTR  |   |  | ţ  | JNSAFE RED   |  |
| Record any restric   | tion on u   | se or entry:  |  |  |   |  |  |  |  |
| Further Action Re  | commend   | ed:   |  |  |   |  |  |  |  |
| ☐ Barricades are ☐ Level 2 or deta ☐ Stru                                  | needed (sta<br>siled enginee<br>sctural   | ite location):<br>ering evaluation reco<br>Ge   | mmended<br>olechnical  |  |   |  |  |  |  |
| ated Overall Buildin   | g Damage  | (Exclude Content  | s)<br><sub>(21</sub> ?   | (0 <sup>k)</sup>   | و مراب  | Y  | Sign<br>Mad  | here on completion   |  |
|  | Building Name Short Name Address  GPS Co-ordinates Contact Name Contact Phone Storeys at and above ground level Total gross floor area m²) Ito of residential Units Photo Taken Stigate the building for rall Hazards / Darnag pse, partial collapse, off ing or storey leaning or other structural darna mead falling hazard and movement, settlement abouring building hazard  Choose a posting i UNSAFE posting. I main entrance. Post  Record any restrict  Further Action Re Tick the boxes belic  Barricades are Level 2 or deta Struct Other recomment | Building Name Short Name Address  GPS Co-ordinates Contact Name Contact Phone Storeys at and above ground level Total gross floor area The stigate the building for the condition and or storey leaning for other structural damage great falling hazard and movement, settlement, slips abouring building hazard  Choose a posting based on the UNSAFE posting. Localised Similar entrance. Post all other process are needed (stated of the post of the structural damage)  Further Action Recommend  Tick the boxes below only if further action Recommend  Tick the boxes below only if further action Recommend  The description on the structural damage and the contact of the post of the structural damage.  Choose a posting based on the UNSAFE posting. Localised Simular entrance. Post all other post all other post of the structural damage.  Choose a posting based on the UNSAFE posting. Localised Simular entrance. Post all other post of the structural damage.  Choose a posting based on the UNSAFE posting. Localised Simular entrance. Post all other post of the structural damage.  Choose a posting based on the UNSAFE posting. Localised Simular entrance. Post all other post of the structural damage.  Choose a posting based on the UNSAFE posting. Localised Simular entrance. Post all other post of the structural damage.  Choose a posting based on the UNSAFE posting. Localised Simular entrance. Post all other post of the structural damage. | Short Name Short Name Address  GPS Co-ordinates So Eo Contact Name Contact Phone Storeys at and above ground level Cotal gross floor area The contact Phone Storeys at and above ground level Cotal gross floor area The contact Phone Storeys at and above ground level Cotal gross floor area The contact Phone Storeys at and above ground level Total gross floor area The contact Phone Storeys at and above ground level The contact Phone Storeys at and above ground level The contact Phone Storeys at and above ground level The contact Phone The contact Pho | Short Name Short Name Address  So Eo  Contact Name Contact Phone Storeys at and above ground level round gross floor area real round level | Sullding Name Short Name Address  G25 Glow by Stract  G25 Glow by | Building Name Short Name Address  G2S Glow to Shoet  Timber fra Steel frame Storeys at and above ground level Colated Phone Contact Phone Cont | Building Name Short Name Address  G25 Grow to Sinset  Type of Construction  Timber frame Still Frame | Building Name Short Name Address  G25 Glom bo Shreet   Timber frame   Garden frame frame   Garden frame   Garde | Building Name Short Name Steel Steel frame Steel Steel frame Steel Steel frame Steel Steel frame Unreinforced masonry Steel frame Unreinforced masonry Steel frame Concrete frame Con |

Inspection ID ARB525 (Office Use Only)







AC

# Christchurch Eq. RAPID Assessment Form - LEVEL 1

|                | Inspector Initials<br>Territorial Authority                                    | Christch                                    | US<br>urch City   | Date of Insp                              | ection                               | 5/9/2010                |        | terior Only<br>terior and Interior       |    |
|----------------|--|---|---|---|--------------------------------------|-------------------------|--------|--|----|
| 1              | Building Name<br>Short Name  | J3 (  | an Club   |   | Type of Const                        | ruction                 |        |  |    |
|                | Address  | 623   | Colombo S   | invet 1                                   | Timber for                           |                         | _<br>다 | Concrete shear wall Unreinforced masonry |    |
|                | GPS Co-ordinates   | Sº  | Eº  |   | Tilt-up co                           | oncrete                 |        | Reinforced masonry                       |    |
|                | Contact Name   | *   |   |   | Concrete                             | frame                   |        | Confined masonry                         |    |
|                | Contact Phone  |   |   |   | RC frame                             | e with masonry infill   |        | Other:                                   |    |
|                | Storeys at and above ground level  | 2   | Below ground<br>level   | P<br>[                                    | Primary Occup  Dwelling              | pancy                   |        | Commercial/ Offices                      | ni |
|                | Total gross floor area (m²)  | (to for                                     | Year built  |   | Other res                            | idential                |        | Industrial                               |    |
|                | No of residential Units  | 625)  |   |   | Public as                            | sembly                  |        | Government                               |    |
| V              |  |   |   | [   | School                               |                         |        | Heritage Listed                          | 1  |
| /              | Photo Taken  | Yes   | No  |   | Religious                            |                         |        | Other                                    |    |
| Ov:            | estigate the building fo<br>erall Hazards / Dama<br>apse, partial collapse, of | <b>]</b> 6                                  | Minor/None  | Moderate                                  | Severe                               | -dispating and a second |        | Comments                                 |    |
| Buil           | ding or storey leaning   |   | <u> </u>  |   |                                      |                         |        |  |    |
|                | or other structural dama   | age   | Ø   |   |                                      |                         |        |  |    |
| Ove            | mead falling hazard  |   | Image: second control of the control |   |                                      |                         |        |  |    |
| Gro            | and movement, settlement   | nt, slips                                   | Ø   |   |                                      |                         |        |  |    |
| Neig           | phbouring building hazard  | 1   | <b>d</b> /  |   |                                      |                         |        |  |    |
| Othe           | भ  |   | 口   |   |                                      |                         |        |  |    |
|                |  | Localised Se                                | vere and overall M<br>acards at every sig   | oderate cond<br>Inficent entra            | litions may re<br>ance.<br>ESTRICTED | quire a RESTRIČTED      | use. F | Place INSPECTED place                    |    |
|                | Record any restric   |   | or entry:   |   | YELI                                 | LOW                     |        | RED                                      |    |
|                | Further Action Re  | commende                                    | d:  |   |                                      |                         |        |  |    |
| _              | Tick the boxes beli Barricades are Level 2 or deta Stru Other recomme          | needed (state<br>alled engineeri<br>uctural | ing evaluation recon  |   |                                      | Other:                  |        |  |    |
| N-<br>0-<br>2- | nated Overall Buildin one 1 % 10 %   |   | Exclude Contents<br>31-60 %<br>61-99 %<br>100 %   | ) 017 017 017 017 017 017 017 017 017 017 | 600000<br>1 5968                     | 211 Date & Time         | WE     | here on completion  System  5/9/2010     | _  |

Inspection ID ARB526 (Office Use Only)





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AC

# Christchurch Eq. RAPID Assessment Form - LEVEL 1

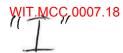
| Inspector Initials<br>Territorial Authority   | Christchurc  | h City  | Date of Ins | pectio            |   | 19/2010           | Exterior Only<br>Exterior and Interior                                  |                      |
|---|--|---|-------------|-------------------|---|-------------------|---|----------------------|
| Building Name<br>Short Name<br>Address  | Sam pa<br>617<br>Colo  | n House<br>· Cerlain<br>unbo St.                      | 1100        | Туре              | of Construction Timber frame Steel frame      | n                 | Concrete shear wall Unreinforced masonry                                | v )                  |
| GPS Co-ordinates Contact Name Contact Phone   | Sº   | Eº  |             |                   | Tilt-up concrete Concrete frame RC frame with | }                 | Reinforced masonry Confined masonry Other:                              |                      |
| Storeys at and above ground level Total gross floor area  | 2  | Below ground<br>level<br>Year                         |             | Prima             | nry Occupancy<br>Dwelling                     |                   | Commercial/ Offices   |                      |
| (m²)  No of residential Units   | 300  | built   |             |                   | Other residential Public assemble School      |                   | industrial Government Heritage Listed                                   |                      |
| Photo Taken   | Yes  | Ño  |             |                   | Religious                                     |                   | Other   |                      |
| Investigate the building for Overall Hazards / Damag Collapse, partial collapse, of Building or storey leaning Wall or other structural damage Overhead falling hazard Ground movement, settleme Neighbouring building hazard Other | ge<br>foundation<br>age<br>nt, slips   | s listed below: Minor/None                            | Moderate    | •                 | Severe  | Cracles<br>Broken |   | -<br>orth eleverther |
| Choose a posting UNSAFE posting. main entrance. Po  | Localised Sev<br>st all other pla<br>INSPECTEI<br>GREEI                        | ere and overall I<br>cards at every si                | Moderate co | onditio<br>ntranc | ns may require                                | a RESTRICTED      | whole building are grounds<br>USE. Place INSPECTED pla<br>UNSAFE<br>RED | for an acard at      |
| Further Action R  Tick the boxes be Barricades ar Level 2 or de   | elow <u>only</u> if furth<br>re needed (state<br>stailed engineeri<br>ructural | er actions are rec<br>location):<br>ng evaluation rec |             |                   | □ Oth   | ner:              |   |                      |
| None  |  | Exclude Conter<br>31-60 %<br>61-99 %<br>100 %         | nts)        | 7 (100)           | epinbo<br>89636<br>13211                      | Date & Time       | Sign here on completion  Mbyll  5/9/201                                 | <i>θ</i>             |

"H1

# Christchurch Eq. RAPID Assessment Form - LEVEL 1

| Date of Inspection Initials   Date of Inspection   Time   Date of Inspection   Time   Date of Inspection   Time   Date of Inspection    |      |                              | otorial Cir E   | 1. IVAP          | JA                 | sses       | sment Fo              | rm -    | - LEVEL 1             |            |
|--|------|------------------------------|---|------------------|--------------------|------------|-----------------------|---------|-----------------------|------------|
| Soliding Name So |      |                              | LOP   | Date of In       |                    |            | 26/2/11               | Ext     | erior Only            |            |
| Short Name   |      | Building Name                | 617   |                  |                    |            | 15:30                 | ⊏Xī     | erior and Interior    |            |
| Address  Betwood 8438 and 720745   Steel frame   Unreinforced mescenty   Specific ordinates   Steel frame   Unreinforced mescenty   Steel frame   Unreinforced mescenty   Steel frame   Unreinforced mescenty   Contract Name   Contract Frame   Contract mescenty   Contract Name   Contract Frame   Contract mescenty   Contract Rane   Contract Frame   Contract Frame   Contract Frame   Contr | _/   |                              | -670/1  |                  |                    |            |                       |         |                       | =          |
| School Skids and School Skids and School Skids frame   Contract School Skids and School School Skids and School Sc | 1    |                              | 065 Colombo   |                  | Type               |            |                       |         |                       | `          |
| Contact Name Contact Stress at and above ground level Total grass for area (m²) No of restidantial Units No of restid |      | Between XYL                  | 20 1.1 0  | -                | ) <u>!</u>         |            |                       |         | Concrete shear wall   |            |
| Contact Name   |      | GPS Co-ordinates             |   | 5                |                    |            |                       | V       | Unreinforced masonry  |            |
| Storeys at and above ground level placed level productions and above ground level productions and above ground level pound lev |      | Contact Name                 |   |                  |                    |            |                       |         | Reinforced masonry    |            |
| Softery's at and above ground level  |      | Contact Phone                |   |                  |                    |            |                       |         | Confined masonry      |            |
| ground level   |      | Storeys at and above         | Bolow are   | d                | _                  |            |                       |         | Other;                |            |
| Year      |      | ground level                 |   | оппа 🕥           | Prima              |            | incy                  |         |                       |            |
| No of residential Units   Public assembly   Government   Government   School   Heritage Listed   Public assembly   Government   Government   School   Heritage Listed   Public assembly   Government   Public assembly   Government   Governmen | ł    | I otal gross floor area (m²) | Year  |                  |                    | _          |                       | Ц       | Commercial/ Offices   |            |
| Photo Taken  Photo | 1    |                              | DUINT   | 19409            |                    |            |                       |         | Industrial            |            |
| Investigate the building for the conditions listed below:  Overall Hazards / Damage  | Ċ    | . To a strike things         | · · · · · · · · · · · · · · · · · · ·                 |                  |                    |            | embly                 |         | Government            |            |
| Investigate the building for the conditions listed below:  Overall Hazards / Damage  | /    | Photo Taken                  | Yes No  |                  | _                  |            |                       |         | Heritage Listed       | 100        |
| Overlal Hazards / Damage   | in   | vestigate the building for   | 110   |                  | Ц_                 | Religious  |                       |         | Other                 | j          |
| Collapse, partial collapse, off foundation   | 0,   | verall Hazards / Damag       |   |                  |                    |            |                       |         |                       |            |
| Building or storey learning  Wall or other structural damage  Overhead falling hazard  Overhead falling falling hazard  Overhead falling falling hazard  Overhead falling f |      |                              |   | e Moderate       | <b>2</b>           | Severe     |                       |         | Comments              |            |
| Wall or other structural danage  |      |                              |   |                  |                    |            | Front Jacas           | le co   | underly collers       | of out     |
| Overhead falling hazard  |      | -                            |   | _                |                    |            | street! R             | 100     |                       | 4 0000     |
| Choose a posting based on the evaluation and team judgement. Severe conditions affecting the whole building are grounds for an unsafe posting. Localised Severe and overall Moderate conditions may require a RESTRICTED USE. Place INSPECTED placard at main entrance, Post all other placards at every significant entrance.    INSPECTED   RESTRICTED USE   UNSAFE   GREEN   YELLOW   RED   WINDED   RESTRICTED USE   Contains   Winder   Winder |      |                              | -   |                  |                    |            | Back port             | V 1     | 1 7                   | 1/0        |
| Neighbouring building hazard  Other  Choose a posting based on the evaluation and team judgement. Severe conditions affecting the whole building are grounds for an unsafe posting. Localised Severe and overall Moderate conditions may require a RESTRICTED USE. Place INSPECTED placard at main entrance. Post all other placards at every significant entrance.  INSPECTED  RESTRICTED USE  RESTRICTED USE  Further Action Recommended:  Tick the boxes below grily if further actions are recommended  Barricades are needed (state location):  Level 2 or detailed engineering evaluation recommended  Structural  Other recommendations:  Estimated Overall Building Damage (Exclude Contents)  None  0-1 %  2-10 %  61-99 %  11-30 %  Date & Time  13.33 2462 III  |      |                              |   |                  |                    |            | 11 1                  |         |                       | MK         |
| Choose a posting based on the evaluation and team judgement. Severe conditions affecting the whole building are grounds for an UNSAFE posting. Localised Severe and overall Moderate conditions may require a RESTRICTED USE. Place INSPECTED placard at main entrance. Post all other placards at every significant entrance.  INSPECTED RESTRICTED USE VINSAFE RECORD RESTRICTED USE VELLOW RED VINSAFE RED VINS |      |                              | _   |                  |                    |            | Builday i             | × har   | and to shoot          | T          |
| Choose a posting based on the evaluation and team judgement. Severe conditions affecting the whole building are grounds for an UNSAFE posting. Localised Severe and overall Moderate conditions may require a RESTRICTED USE. Place INSPECTED placard at main entrance. Post all other placards at every significant entrance.  INSPECTED  RESTRICTED USE  UNSAFE  RECORD RECORD RESTRICTED USE  Further Action Recommended:  Tick the boxes below only if further actions are recommended   Barricades are needed (state location);   Level 2 or detailed engineering evaluation recommended   Geotechnical   Other:  Estimated Overall Building Damage (Exclude Contents)  None  0-1 %   |      |                              |   |                  |                    | $\square$  |                       |         |                       | and        |
| Choose a posting based on the evaluation and team judgement. Severe conditions affecting the whole building are grounds for an UNSAFE posting. Localised Severe and overall Moderate conditions may require a RESTRICTED USE. Place INSPECTED placard at main entrance, Post all other placards at every significant entrance.    INSPECTED  | -    |                              |   |                  |                    |            |                       | COLLA   |                       | 7          |
| INSPECTED  GREEN  Record any restriction on use or entry:  Further Action Recommended:  Tick the boxes below only if further actions are recommended  Barricades are needed (state location):  Level 2 or detailed engineering evaluation recommended  Structural  Other recommendations:  Estimated Overall Building Damage (Exclude Contents)  None  0-1 %  31-60 %  2-10 %  11-30 %  Date & Time  13.30 26 24 41  Date & Time  Da |      | Chance a newti-              |   |                  |                    |            |                       |         |                       | rid.       |
| INSPECTED  GREEN  Record any restriction on use or entry:  Further Action Recommended:  Tick the boxes below only if further actions are recommended  Barricades are needed (state location):  Level 2 or detailed engineering evaluation recommended  Structural  Other recommendations:  Estimated Overall Building Damage (Exclude Contents)  None  0-1 %  31-60 %  2-10 %  11-30 %  Date & Time  13.30 26 24 41  Date & Time  Da |      | UNSAFE posting. L            | ased on the evaluation an<br>ocalised Severe and over | id team judgeme  | ent. Se            | evere cond | litions affecting the | whole b |                       |            |
| INSPECTED   RESTRICTED USE   UNSAFE   YELLOW   RED   YELLOW   TO THE NEW YELLOW   RED   YELLOW   TO THE NEW YELLOW   RED   YELLOW   TO THE NEW YELLOW   | 1    | main entrance. Post          | all other placards at ever                            | y significant en | naition<br>trance. | is may req | uire a RESTRICTED     | USE. P  | lace INSPECTED placar | an<br>d at |
| Record any restriction on use or entry:  Further Action Recommended:  Tick the boxes below only if further actions are recommended   Barricades are needed (state location):   Level 2 or detailed engineering evaluation recommended   Structural   Geotechnical   Other:    Other recommendations:    Other recommendations:   Sign have on completion   Date & Time   13.30   262   11-30 %   Date & Time   13.30   262   |      |                              |   |                  |                    |            |                       |         |                       |            |
| Further Action Recommended:  Tick the boxes below only if further actions are recommended Barricades are needed (state location): Level 2 or detailed engineering evaluation recommended Structural Other recommendations:  Estimated Overall Building Damage (Exclude Contents)  None 0-1 %   | 1    |                              |   |                  |                    |            |                       | U       |                       |            |
| Tick the boxes below only if further actions are recommended Barricades are needed (state location):  Level 2 or detailed engineering evaluation recommended Structural Geotechnical Other.  Cother recommendations:  Estimated Overall Building Damage (Exclude Contents)  None Governmendations Sign have on completion Full Contents Sign hav | ï    | Record any restric           | tion on use or entry:                                 |                  |                    |            |                       |         | RED V                 |            |
| Tick the boxes below only if further actions are recommended Barricades are needed (state location):  Level 2 or detailed engineering evaluation recommended Structural Geotechnical Other.  Cother recommendations:  Estimated Overall Building Damage (Exclude Contents)  None Governmendations Sign have on completion Full Contents Sign hav |      | Further Action Rec           | commended:  |                  |                    |            |                       |         |                       |            |
| Estimated Overall Building Damage (Exclude Contents)  None  0-1 % 2-10 % 11-30 % 100 %  Date & Time 13.30 262 LL   | 1    | Tick the boxes belo          | W only if further actions are                         | recommended      |                    |            |                       |         |                       |            |
| Estimated Overall Building Damage (Exclude Contents)  None 0-1 %   | 1    | ☐ particades are t           | needed (state location).                              |                  |                    |            |                       |         |                       |            |
| Cother recommendations:    Other recommendations:   Other  | 1    | Level 2 or detail            | led engineering evaluation                            | recommended      |                    |            |                       |         |                       |            |
| Estimated Overall Building Damage (Exclude Contents)  None 0-1 %   |      |                              |   | Geotechnical     |                    |            | Other:                |         |                       |            |
| None   | /    |                              | idutions.   |                  |                    |            |                       |         |                       |            |
| None   | Ent  | imetad D                     |   |                  |                    |            |                       |         |                       |            |
| 0-1 %  | =\$t | unated Overall Building      | g Damage (Exclude Con                                 | itents)          |                    |            |                       | - 2 ,   |                       |            |
| 2-10 %   |      | <u></u>                      |   |                  |                    |            |                       | Sign    | hare on completion    |            |
| 11-30 % Date & Time 13.30 26(2) II   |      | <u></u>                      |   | . <u>A</u>       |                    |            | -                     | V       | ain                   | _          |
| ID (e)   | 1    | 11-30 %                      |   |                  |                    |            | Date & Time           | е       | 13.30 26/2/W          |            |
| Inspection ID (Office Use C. I.)   |      |                              | · - ··  | J                |                    |            | ID                    | 90      |                       |            |
| (Unice use Only)   | Insi | pection ID                   | (Office Use Only                                      | <i>(</i> )       |                    | CT         | 1375/2                | 1       | Ç-                    |            |

### Christchurch Eq. RAPID Assessment Form -Inspector Initials )AS Date of Inspection Exterior Only Territorial Authority Christchurch City Time 4:04 Exterior and Interior **Building Name** tched 0~ Short Name Type of Construction Address Timber frame Concrete shear wall Steel frame Unreinforced masonry GPS Co-ordinates SP E٥ Tilt-up concrete Reinforced masonry Contact Name Concrete frame Confined masonry Contact Phone RC frame with masonry infill Other: Storeys at and above Primary Occupancy Below ground ground level level Dwelling Commercial/Offices Total gross floor area Year $(m^2)$ Other residential built Industrial No of residential Units Public assembly Government School Heritage Listed Photo Taken Yes No Religious Other Investigate the building for the conditions listed below: Overall Hazards / Damage Minor/None Moderate Severe Comments Collapse, partial collapse, off foundation П Building or storey leaning Wall or other structural damage Overhead falling hazard 回 Ground movement, settlement, slips П Neighbouring building hazard Other П Choose a posting based on the evaluation and team judgement. Severe conditions affecting the whole building are grounds for an UNSAFE posting. Localised Severe and overall Moderate conditions may require a RESTRICTED USE. Place INSPECTED placard at main entrance. Post all other placards at every significant entrance. INSPECTED RESTRICTED USE UNSAFE GREEN YELLOW RED Record any restriction on use or entry: Further Action Recommended: Tick the boxes below only if further actions are recommended ☐ Barricades are needed (state location): Level 2 or detailed engineering evaluation recommended ☐ Structural ☐ Geotechnical Other: Other recommendations: Estimated Overall Building Damage (Exclude Contents) Sign here on completion None 0-1 % 31-60 % 2-10 % 61-99 % Date & Time 11-30 % 100 % 75017086 ction ID (Office Use Only)



|                               | Chris                                | stchurch Eq. l   | RAPID           | As                | sessment Fo                       | rm - LEVEL 1  |
|-------------------------------|--------------------------------------|--|-----------------|-------------------|-----------------------------------|---|
|                               | Inspector Initials                   | DAS  | Date of Insp    | ection            | 72/2                              | Estado Ou   |
|                               | Territorial Authority                | Christchurch City  | Time            |                   | 4/16                              | Exterior Only Exterior and Interior                                     |
| 1                             | Building Name<br>Short Name          | Sampa 1  | Touse           | -                 |                                   |   |
| 1                             | Address                              | OIT Colon  | 100 24          |                   | of Construction                   |   |
|                               | , 133, 335                           | 4896566  |                 |                   | Timber frame                      | Concrete shear wall   |
|                               | GPS Co-ordinates                     | S° E°  |                 | -                 | Steel frame                       | Unreinforced masonry  |
|                               | Contact Name                         |  |                 | _                 | Tilt-up concrete Concrete frame   | Reinforced masonry  |
|                               | Contact Phone                        | ***************************************  |                 |                   | RC frame with masonry infill      | Confined masonry  |
|                               | Storeys at and above                 | Polonia de la companya della companya della companya de la companya de la companya della company |                 |                   | ry Occupancy                      | Other:  |
| ì                             | ground level  Total gross floor area | Below ground level   | d<br>           |                   | Dwelling                          | Commercial/ Offices   |
|                               | (m²)                                 | Year<br>built  |                 |                   | Other residential                 | Industrial  |
| $\forall$                     | No of residential Units              |  |                 |                   | Public assembly                   | Government  |
| 1                             | Dhata Talas                          |  |                 |                   | School                            | Heritage Listed   |
| '                             | Photo Taken                          | Yes No   |                 |                   | Religious                         | ☐ Other   |
|                               |                                      | or the conditions listed below   | E               |                   |                                   |   |
|                               | verall Hazards / Dama                | 77 III A PARTICIPATION AND | Moderate        | <u> </u>          | Severe                            | Comments  |
| C                             | ollapse, partial collapse, of        | ff foundation  |                 |                   |                                   | 9 42  |
|                               | uilding or storey leaning            | <b>Ø</b> /   |                 |                   |                                   | PA P  |
| ۷                             | Vall or other structural dam         | nage . 🗹   |                 |                   |                                   |   |
| C                             | verhead falling hazard               |  |                 |                   | 1 Verther                         | us Branch   |
| G                             | Ground movement, settleme            | ent, slips   |                 |                   |                                   | ) , , ,   |
| ١                             | leighbouring building hazar          | rd 🔲   | 1Z              |                   | 1 5 Sold                          | eet with how  |
| C                             | Other                                |  |                 |                   |                                   | brolder   |
| $ \begin{cases} \end{cases} $ | UNSAPE posting.                      | based on the evaluation and<br>Localised Severe and oversest all other placards at ever<br>INSPECTED   | ili Moderate co | onditio<br>ntranc | ons may require a RESTRICT<br>ce. | he whole building are grounds for an ED USE. Place INSPECTED placard at |
|                               |                                      | GREEN  | ν.              | KES               | STRICTED USE<br>YELLOW            | UNSAFE RED  |
|                               |                                      | riction on use or entry:   |                 | S                 |                                   |   |
| 1                             | Further Action R                     | •  |                 |                   |                                   |   |
| 1                             | Tick the boxes b                     | elow only if further actions are   | recommended     |                   |                                   |   |
| 1                             |                                      | are needed (state location):<br>etailed engineering evaluation   | recommended     |                   |                                   |   |
| 1                             |                                      |  | Geotechnical    |                   | Other:                            |   |
| \                             | Other recom                          |  |                 |                   | 30,011                            |   |
|                               |                                      |  |                 | _                 |                                   |   |
| ı                             | Estimated Overall Build              | ding Damage (Exclude Cor   | ntents)         |                   | <del>p</del> mo                   |   |
|                               | None 🔲                               |  | 9               |                   |                                   | Sign here on completion   |
|                               | 0-1 %                                | 31-60 %  |                 |                   |                                   | 027 252 6360  |
| \                             | 2-10 % <b></b>                       | 61-99 %  |                 | 1                 | . Date &                          |   |
| 1                             | 11-30 %                              | 100 %  | Ш               |                   | \ ID                              | 4:16.   |
|                               | /                                    |  | /.              | 1                 | (1)                               |   |
| Ŋ.                            | ction ID                             | (Office Use Onl  | (עי             |                   | 11                                | pdate   |
| ,<br>1                        | / 750                                | 017/45 2   | 5017            | 3                 | 7 -                               |   |

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